

ADEQ

ARKANSAS
Department of Environmental Quality

MAY 01 2017

David Allen
Manager of Technical Services/Vice President of Operations
Bitec Inc.
P. O. Box 497
Morrilton, AR 72110

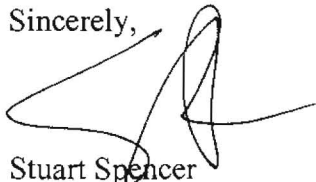
Dear Mr. Allen:

The enclosed Permit No. 1028-AR-2 is your authority to construct, operate, and maintain the equipment and/or control apparatus as set forth in your application initially received on 8/24/2016.

After considering the facts and requirements of A.C.A. §8-4-101 et seq. as referenced by §8-4-304, and implementing regulations, I have determined that Permit No. 1028-AR-2 for the construction and operation of equipment at Bitec Inc. shall be issued and effective on the date specified in the permit, unless a Commission review has been properly requested under Arkansas Department of Pollution Control & Ecology Commission's Administrative Procedures, Regulation 8, within thirty (30) days after service of this decision.

The applicant or permittee and any other person submitting public comments on the record may request an adjudicatory hearing and Commission review of the final permitting decisions as provided under Chapter Six of Regulation No. 8, Administrative Procedures, Arkansas Pollution Control and Ecology Commission. Such a request shall be in the form and manner required by Regulation 8.603, including filing a written Request for Hearing with the APC&E Commission Secretary at 101 E. Capitol Ave., Suite 205, Little Rock, Arkansas 72201. If you have any questions about filing the request, please call the Commission at 501-682-7890.

Sincerely,



Stuart Spencer
Associate Director, Office of Air Quality

Enclosure: Final Permit

ADEQ MINOR SOURCE AIR PERMIT

Permit No. : 1028-AR-2

IS ISSUED TO:

Bitec Inc.
#2 Industrial Park
Morrilton, AR 72110
Conway County
AFIN: 15-00089

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

MAY 01 2017

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: Bitec Inc.

AFIN: 15-00089

PERMIT NUMBER: 1028-AR-2

FACILITY ADDRESS: #2 Industrial Park
Morrilton, AR 72110

MAILING ADDRESS: P. O. Box 497
Morrilton, AR 72110

COUNTY: Conway County

CONTACT NAME: David Allen

CONTACT POSITION: Manager of Technical Services/Vice President of
Operations

TELEPHONE NUMBER: (501) 354-8585

REVIEWING ENGINEER: Jeremy Antipolo

UTM North South (Y): Zone 15: 3892315.49 m

UTM East West (X): Zone 15: 526447.77 m

Section II: INTRODUCTION

Summary of Permit Activity

BITEC, Inc. currently manufactures bituminous waterproofing membranes for use in residential and commercial roofing, waterproofing and subterranean waterproofing applications in Morrilton, Conway County, Arkansas. Minor Source Permit No. 1028-AR-1, which was issued in June 14, 1996, was revised to the current permit format and incorporated the following modifications as proposed in a de minimis modification application dated August 24, 2016:

- Installation of two (2) asphalt holding tanks (SN-07 and SN-08) equipped with natural gas-fired burners (SN-09 and SN-10) for temperature control;
- Installation of a pre-impregnator to the Production Line (SN-01E);
- Adding the existing Granule Storage Building (SN-11) to the list of permitted sources;
- Installation of a 500 gallon diesel storage tank (Insignificant Activities Group A, No. 3);
- Removal of the SBS Handling Area and its associated baghouse (SN-01C);
- Removal of the Backup Steam Boiler (SN-02B);
- Renaming “SN-02A” to “SN-02”;
- Updating Production Line (SN-01) emission calculations with current information; and
- Incorporation of applicable requirements under 40 C.F.R. Part 63, Subpart AAAAAAA, the National Emission Standards for hazardous Air Pollutants Area Source Standards for Asphalt Processing and Asphalt Roofing Manufacturing.

Modifications of this permit action result in emission rate increases of the 0.1 tpy SO₂, 3.2 tpy VOC, 0.9 tpy CO, 0.02 tpy H₂S and 0.20 tpy Total HAPs. Corresponding emission rate decreases associated with the modifications are 15.3 tpy PM/PM10 and 1.7 tpy NO_x.

Process Description

BITEC, Incorporated of Morrilton, Conway County, Arkansas, manufactures and ships bituminous waterproofing membranes that are used in residential/commercial roofing, waterproofing, and subterranean waterproofing applications. The maximum and annual design capacity of this facility is approximately 750,000 rolls of modified bitumen waterproofing membranes.

The BITEC facility is differentiated from other asphalt roofing facilities in that it uses blended, rather than blown, asphalt. Blended asphalt does not need to be hardened; therefore, it does not require a blowing still or a catalyst. Depending upon the product made, the facility may add amorphous polypropylene (APP) or styrene-butadiene-styrene (SBS) as a modifier to the asphalt. The temperature is never higher than 390 degrees Fahrenheit in the asphalt production process.

Reinforced modified bitumen (asphalt) is manufactured on site at the facility. Four holding tanks (SN-01A, SN-01B, SN-07, and SN-08), each having a capacity of 18,000 gallons of asphalt, are

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employed to house and continually circulate the in-process asphalt. The tanks hold different mixtures. The two existing tanks (SN-01A and SN-01B) circulate asphalt to the mixing vessels. Each tank is piped to circulate to the mixing vessels, but only one holding tank of the pair is used during the manufacturing process; therefore, the tanks are alternated between production runs as the need for the type of final product changes. One of the new tanks (SN-07) continually circulates asphalt to the pre-saturator, and the second new tank (SN-08) provides additional asphalt storage capacity and is not piped for continuous circulation to the manufacturing process. Natural gas heaters (SN-04, SN-05, SN-09, and SN-10) are used to heat the asphalt tanks and a natural gas heater (SN-03) is used to heat the amorphous polypropylene (APP) tank. A synthetic thermal oil heater (SN-02) is used to heat the bitumen piping, bitumen pumps, mixing tanks, the pre-impregnator and the impregnator.

Four mixing vessels are used to combine extenders, bitumen, and modifiers. With the exception of bitumen and APP, all solids are added at ambient temperatures. Additionally, calcium carbonate powder (CaCO₃) is pneumatically transferred to the mixing vessels from the filler bin in the limestone filler handling area. A baghouse (SN-06) is used to filter particulate emissions from the limestone filler handling system. These emissions are vented through a mist eliminator (SN-01) along with the holding tanks and another emission source later in the production process. The maximum process temperature in the mixing vessels is 390 degrees Fahrenheit.

The dry looper accumulates and directs reinforcement materials of fiberglass or polyester to the pre-impregnator (SN-01E), if specified by the customer, and then to the impregnator (SN-01D) or directly to the impregnator. These materials are saturated and coated within the pre-impregnator and/or impregnator tanks. Particulate matter emissions are removed from the pre-impregnator and impregnator by the mist eliminator. The mist eliminator is a Protherm Monsanto "ES" fiber bed filter that controls asphalt holding tanks #1 & #2 (SN-01A & SN-01B), the pre-impregnator (SN-01E) and the impregnator (SN-01D). From the dry looper, the membrane sheets are sent to be cooled by the water bath. Ceramic roof granules are then applied, recovered and reprocessed. Roof granules are stored in six (6) granule storage bins inside the Granule Storage Building (SN-11). Depending upon the product, polypropylene or polyethylene film may also be added to modify the membrane at this time.

In order for certain modified membranes to be released from the manufacturing process, it is necessary to spray affected membranes with talc/water mixture. The surface temperature of the membrane does not exceed 150 degrees Fahrenheit. The sheet passes through the cooling section where ply stripping and cooling is performed. The membrane sheet passes through a roller section where excess finished sheets of membrane are accumulated, wound, and taped. Final products are then palletized and shrink-wrapped in this area.

Regulations

The following table contains the regulations applicable to this permit.

Regulations

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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 UU – <i>Standards of Performance for Asphalt Processing and Asphalt Roofing Manufacture</i>
40 C.F.R. Part 63, Subpart AAAAAAA – <i>National Emission Standards for Hazardous Air Pollutants for Area Sources: Asphalt Processing and Asphalt Roofing Manufacturing</i>

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	1.5	2.2
PM ₁₀	1.5	2.2
PM _{2.5}	See Note*	
SO ₂	0.6	0.6
VOC	2.4	3.9
CO	1.1	2.4
NO _x	1.1	4.5
Total HAP	0.06	0.20
H ₂ S	0.02	0.02

*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 #1028-A was the initial issued permit for BITEC Inc. on May 18, 1990.

Permit #1028-AR-1 was issued on June 14, 1996. The permit was issued to revise and correct statements in the manufacturing process description and the affected emission limitations.

Section IV: EMISSION UNIT INFORMATION

Specific Conditions

1. 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
01	<u>Production Line</u>			
	A - Holding Tank #1	PM ₁₀	0.3	1.1
	B - Holding Tank #2	VOC	0.8	3.0
	D - Impregnator Tank	CO	0.2	0.7
	E - Pre-Impregnator Tank			
02	HEATEC Gas Fired Hot Oil System (Thermal Oil Heater)	PM ₁₀	0.1	0.2
		SO ₂	0.1	0.1
		VOC	0.1	0.2
		CO	0.2	0.6
		NO _x	0.6	2.5
03	Maxon Burner for APP Tank	PM ₁₀	0.1	0.1
		SO ₂	0.1	0.1
		VOC	0.1	0.1
		CO	0.1	0.1
		NO _x	0.1	0.4
04	Maxon Burner for Asphalt Tank #1	PM ₁₀	0.1	0.1
		SO ₂	0.1	0.1
		VOC	0.1	0.1
		CO	0.1	0.1
		NO _x	0.1	0.4
05	Maxon Burner for Asphalt Tank #2	PM ₁₀	0.1	0.1
		SO ₂	0.1	0.1
		VOC	0.1	0.1
		CO	0.1	0.1
		NO _x	0.1	0.4
06	CaCO ₃ Filling Area	PM ₁₀	0.1	0.1
07	Asphalt Tank #3	PM ₁₀	0.2	0.1
		VOC	0.5	0.1
		CO	0.1	0.1
08	Asphalt Tank #4	PM ₁₀	0.2	0.1
		VOC	0.5	0.1
		CO	0.1	0.1
09	Asphalt Tank #3 Burner	PM ₁₀	0.1	0.1
		SO ₂	0.1	0.1
		VOC	0.1	0.1

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SN	Description	Pollutant	lb/hr	tpy
		CO	0.1	0.3
		NO _x	0.1	0.4
10	Asphalt Tank #4 Burner	PM ₁₀	0.1	0.1
		SO ₂	0.1	0.1
		VOC	0.1	0.1
		CO	0.1	0.3
		NO _x	0.1	0.4
11	Granule Storage Building	PM ₁₀	0.1	0.1

2. 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
01	Production Line A - Holding Tank #1 B - Holding Tank #2 D - Impregnator Tank E - Pre-Impregnator Tank	PM Total HAP	0.3 0.04	1.1 0.18
02	HEATEC Gas Fired Hot Oil System (Thermal Oil Heater)	PM	0.1	0.2
03	Maxon Burner for APP Tank	PM	0.1	0.1
04	Maxon Burner for Asphalt Tank #1	PM	0.1	0.1
05	Maxon Burner for Asphalt Tank #2	PM	0.1	0.1
06	CaCO ₃ Filling Area	PM	0.1	0.1
07	Asphalt Tank #3	PM H ₂ S	0.2 0.01	0.1 0.01
08	Asphalt Tank #4	PM H ₂ S	0.2 0.01	0.1 0.01
09	Asphalt Tank #3 Burner	PM Total HAP	0.1 0.01	0.1 0.01
10	Asphalt Tank #4 Burner	PM Total HAP	0.1 0.01	0.1 0.01
11	Granule Storage Building	PM	0.1	0.1

3. Visible emissions may not exceed the limits specified in the following table of this permit as measured by EPA Reference Method 9. Visible emissions from asphalt storage tanks (01A, 01B, 07 and 08) shall not exceed zero percent opacity as measured by USEPA Method 9, except for one consecutive 15-minute period in any 24-hour period when the

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transfer lines are being blown for clearing. The control device shall not be bypassed during this 15-minute period. [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, 07, 08	0%	§60.472(c)
01D, 01E, 02, 03, 04, 05, 09, 10	20%	Reg.19.503 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4- 311
06, 11	1%	§60.472(d)

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. Natural gas shall be the only fuel source at this facility. [Reg.19.705 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
7. The production at this facility shall not exceed 750,000 rolls of modified bituminous waterproofing membrane on a 95 pound per roll basis during any consecutive twelve month period. A record of this annual rate is to be sustained on a 12-month rolling average, updated monthly. Such records shall be maintained on site and made available to the Department upon request. Failure to comply with this condition shall be considered a violation of the mass emissions limit. [Reg.19.705 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]

NSPS Subpart UU Conditions

8. All affected sources shall comply with applicable provisions of the Standards of Performance for New Stationary Sources, 40 C.F.R. Part 60, Subpart UU-Standards of Performance for Asphalt Processing and Asphalt Roofing Manufacture. A copy of which is contained in attachment A. [Reg.19.304 and 40 C.F.R. 60, Subpart UU]
9. Because the production rate of mineral and smooth surface roll roofing is dependent upon demand, the yearly particulate emission limits in Specific Conditions #1 and #2 should be

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considered nominal. These emission rates are based upon a 100% production rate of either mineral surfaced roll roofing or smooth surfaced roll roofing produced and shall not exceed 0.4 kilograms per megagram of smooth-surfaced roll roofing produced [Reg.19.304 and 40 C.F.R. §60.472]

NESHAP Subpart AAAAAAA Conditions

10. The permittee is subject to 40 C.F.R. Part 63, Subpart AAAAAAA – *National Emission Standards for Hazardous Air Pollutants (NESHAP) for Area Sources: Asphalt Processing and Asphalt Roofing Manufacturing* because it is an existing asphalt roofing manufacturing operation that is an area source of hazardous air pollutant (HAP) emissions, as defined in §63.2. [Reg.19.304 and 40 C.F.R. §63.11559(a),(b)(2)]
11. All affected sources shall comply with applicable provisions of the 40 C.F.R. Part 63, Subpart AAAAAAA. Affected sources at the BITEC, Inc. facility are asphalt coating equipment as defined in §63.11566: saturators, coating mixers, and coaters used to apply asphalt to substrate to the manufacture roofing products (mixing vessels in SN-01 Production Line and SN-01D Impregnator). BITEC, Inc. is an existing source because it is neither a new nor reconstructed source. [Reg.19.304 and 40 C.F.R. §63.11559(b)(2), (f)]
12. The permittee must be in compliance with the applicable provisions in Subpart AAAAAAA of Part 63 no later than December 2, 2010. As specified in §63.11562(g), the permittee must demonstrate initial compliance within 180 calendar days after December 2, 2010, effective date May 31, 2011 [BITEC, Inc. is taking advantage of USEPA’s Audit Policy. BITEC, Inc. has submitted a stack test protocol, a Site-Specific Test Plan, a Site-Specific Monitoring Plan and a Site-Specific Performance Evaluation Test Plan to USEPA Region 6 on September 19, 2016. A stack test to determine initial compliance was conducted on October 7-10, 2016.]. [Reg.19.304, 40 C.F.R. §63.11560(a) and §63.11562(g)]
13. For asphalt roofing manufacturing lines and associated equipment, the permittee must comply with the applicable PM or PAH emission limits specified in Table 2 of NESHAP Subpart AAAAAAA. BITEC, Inc. will demonstrate compliance with PM standard; therefore, PAH emissions are not required to be estimated. The PM standard applies at all times. The emission limits are as listed in the following table: [Reg.19.304 and 40 C.F.R. §63.11561(b) and (c) and Items 1a or 1b of Table 2 of Part 63, Subpart AAAAAAA- *Emission Limits for Asphalt Roofing Manufacturing (Coating) Operations*]

Table 2 of Part 63, Subpart AAAAAAA – Emission Limits for Asphalt Roofing Manufacturing (Coating) Operations	
Coater-only Production Lines	1a. Limit PAH emissions to 0.0002 lb/ton of asphalt roofing product manufactured; or

Table 2 of Part 63, Subpart AAAAAAA – Emission Limits for Asphalt Roofing Manufacturing (Coating) Operations	
(SN-01)	1b. Limit PM emissions to 0.06 lb/ton of asphalt roofing product manufactured.

14. The permittee owns and operates an asphalt saturated roofing manufacturing facility that uses a control device to comply with the emission limits in Table 2 of Subpart AAAAAAA of Part 63 (Specific Condition #13). The permittee must: [Reg.19.304 and 40 C.F.R. §63.11562(b)(1)(i), (b)(3)(i) and Item 2 of Table 4 of Subpart AAAAAAA of Part 63- *Operating Limits*]
 - a. Demonstrate initial compliance by conducting emission tests using the methods specified in Table 3 of Subpart AAAAAAA of Part 63-*Test Methods*;
 - b. Establish the value or range of values for inlet gas temperature and pressure drop across device as specified in Item 2 of Table 4 of Subpart AAAAAAA of Part 63 for control devices other than thermal oxidizers [BITEC, Inc. does not have a thermal oxidizer. BITEC, Inc. has a fiber bed filter mist eliminator.]; and
 - c. Use the operating parameter data recorded during the compliance emission tests.

15. The permittee shall operate the Fiber Bed Filter Mist Eliminator (SN-01) whenever either production line is operating, including during startup. [Reg.18.1104 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]

16. For emission tests conducted to demonstrate initial compliance with the emission limits specified in Tables 1 and 2 of Subpart AAAAAAA of Part 63, the permittee must follow the following requirements:
 - a. The permittee must conduct the tests while manufacturing the product that generates the greatest PAH and PM emissions to the control device inlet, or exiting the process if the permittee is not using a control device to comply with the emissions limits specified in Tables 1 and 2 of Subpart AAAAAAA of Part 63.
 - b. The permittee must conduct a minimum of three (3) separate test runs for each compliance test, as specified in §63.11562(b)(1)(i), according to the requirements specified in §63.7(e)(3). The sampling time and sample volume of each test run must be as follows:
 - i. For asphalt coating operations, the sampling time and sample volume for each test run must be at least 120 minutes and 3.00 dry standard cubic meters (dscm) (106 dscf).
 - c. The permittee must use the following equation to demonstrate compliance with the emission limits specified in Table 2 of Subpart AAAAAAA of Part 63:

$$E = [(C)*(Q)/(P)*(K)]$$

Where:

E = emission rate of particulate matter, kg/Mg (lb/ton)
C = concentration of particulate matter, g/dscm (gr/dscf)
Q = volumetric flow rate of effluent gas, dscm/hr (dscf/hr)
P = the average asphalt roofing production rate or asphalt charging rate over the duration of the test, Mg/hr (ton/hr)
K = conversion factor, 1,000 g/kg (7,000 gr/lb)

[Reg.19.304 and 40 C.F.R. §63.11562(i)(1) and (i)(2)(ii) and (i)(4)]

17. The permittee must maintain the 3-hour average operating parameters (inlet gas temperature and pressure drop across the fiber bed filter mist eliminator) established under §63.11562(a)(2), (b)(2),(b)(3) and (c)(2) as specified in Table 4 of Subpart AAAAAAA. [Reg.19.304 and 40 C.F.R. §63.11563(a)]
18. If the permittee would like to use parameters or means other than those specified in Table 4 of Subpart AAAAAAA to demonstrate continuous compliance with the emission limits specified in Table 2 of Subpart AAAAAAA, you must apply to the Administrator for approval of an alternative monitoring plan under §63.8(f). The plan must specify how process parameters established during the initial compliance assessment will be monitored and maintained to demonstrate continuous compliance. [Reg.19.304 and 40 C.F.R. §63.11563(h)]
19. At all times the owner or operator must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the owner or operator to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [Reg.19.304 and 40 C.F.R. §63.11563(i)]
20. The permittee must submit the notifications as specified below:
 - a. You must submit all of the notifications in §§63.5(b), 63.7(b); 63.8(e) and (f); 63.9(b) through (e); and 63.9(g) and (h) that apply to you by the dates specified in those sections.
 - b. As specified in §63.9(b)(2), if you have an existing affected source, you must submit an Initial Notification not later than 120 calendar days after December 2, 2009.
 - c. You must submit a notification of intent to conduct a compliance test at least 60 calendar days before the compliance test is scheduled to begin, as required in §63.7(b)(1).

- d. You must submit a Notification of Compliance Status according to §63.9(h)(2)(ii). You must submit the Notification of Compliance Status, including the compliance test results, before the close of business on the 60th calendar day following the completion of the compliance test according to §63.10(d)(2).
21. The permittee must maintain records specified:
- a. A copy of each notification and report submitted to comply with Subpart AAAAAAA, including all documentation supporting any Initial Notification or Notification of Compliance Status submitted, according to the requirements in §63.10(b)(2)(xiv).
 - b. Copies of emission tests used to demonstrate compliance and performance evaluations as required in §63.10(b)(2)(viii).
 - c. Documentation that identifies the operating parameters and values specified in Table 4 of Subpart AAAAAAA and that contains the data used to establish the parameter values as specified in §63.11562(a)(2), (b)(2), (b)(3), or (c)(2).
 - d. Copies of the written manufacturers performance specifications used to establish operating parameter values as specified in §63.11562(b)(3)(iii).
 - e. Documentation of the process knowledge and engineering calculations used to demonstrate initial compliance as specified in §63.11562(e).
 - f. Documentation of the process knowledge and engineering calculations used to establish the value or range of values of operating parameters as specified in §63.11562(f).
 - g. A copy of the site-specific monitoring plan required under §63.11563(b) or (g).
 - h. A copy of the approved alternative monitoring plan required under §63.11563(h), if applicable.
 - i. Records of the operating parameter values required in Table 4 of Subpart AAAAAAA to show continuous compliance with each operating limit that applies to you.
22. The permittee must submit a compliance report as specified:
- a. If you are using a control device to comply with the emission limits, the compliance report must identify the controlled units (*e.g.*, blowing stills, saturators, coating mixers, coaters).
 - b. During periods for which there are no deviations from any emission limitations (emission limit or operating limit) that apply to you, the compliance report must contain the following information:
 - i. Company name and address.
 - ii. Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.
 - iii. Date of report and beginning and ending dates of the reporting period.
 - iv. A statement that there were no deviations from the emission limitations during the reporting period.

- v. If there were no periods during which the CPMS was out-of-control as specified in §63.8(c)(7), a statement that there were no periods during which the CPMS was out-of-control during the reporting period.
- c. For each deviation from an emission limitation (emission limit and operating limit), you must include the information:
 - i. The date and time that each deviation started and stopped.
 - ii. The date and time that each CPMS was inoperative, except for zero (low-level) and high-level checks.
 - iii. The date, time and duration that each CPMS was out-of-control, including the information in §63.8(c)(8).
 - iv. The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.
 - v. A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period.
 - vi. A breakdown of the total duration of the deviations during the reporting period into those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.
 - vii. A summary of the total duration of CPMS downtime during the reporting period and the total duration of CPMS downtime as a percent of the total source operating time during that reporting period.
 - viii. An identification of each air pollutant that was monitored at the affected source.
 - ix. A brief description of the process units.
 - x. A brief description of the CPMS.
 - xi. The date of the latest CPMS certification or audit.
 - xii. A description of any changes in CPMS or controls since the last reporting period.
- d. Unless the Administrator has approved a different schedule for submission of reports under §63.10(a), you must submit each report specified in Specific Condition #22 according to the following dates:
 - i. The first compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.11560 and ending on June 30 or December 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for your source in §63.11560.
 - ii. The first compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date follows the end of the first calendar half after the compliance date that is specified for your affected source in §63.11560.
 - iii. Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.

- iv. Each subsequent compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

[Reg.19.304 and 40 C.F.R. §63.11564(b)(1-4)]

Continuous Parametric Monitoring Systems

- 23. The permittee is subject to and must comply with the Continuous Parametric Monitoring Systems (CPMS) Conditions as required by 40 C.F.R. 63, Subpart AAAAAAA (Appendix B). [Reg.19.703 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
- 24. The permittee shall maintain CPMS of the Fiber Bed Filter Mist Eliminator (SN-01) for inlet gas temperature and pressure drop across the control device. The permittee is required to record and submit a semiannual compliance reports as specified in Specific Condition #22. The temperature and pressure drop operating parameters were established during the October 7-10, 2016 performance test. [Reg.19.703 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311 and Items 2(a) and (b) of Table 4 of Subpart AAAAAAA of Part 63 – *Operating Limits*]

SN-07	Parameter Monitored	Normal Operating Range of values
Fiber Bed Filter Mist Eliminator	Inlet Gas Temperature	< 120 °F
	Pressure Drop across Control Device Main Filter Elements	8 - 20 inches H ₂ O

[Reg.18.1003 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]

- 25. The permittee must retain the records of all required monitoring data and support information for at least five (5) years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. The permittee must maintain these documents on-site and make available to Department personnel upon request. [Reg.18.1003 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
- 26. The permittee must develop and make available for inspection by the delegated authority, upon request, a site-specific monitoring plan for each monitoring system that addresses the following:

- a. Installation of the CPMS probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (*e.g.*, on or downstream of the last control device);
- b. Performance and equipment specifications for the probe or interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction system; and
- c. Performance evaluation procedures and acceptance criteria (*e.g.*, calibrations).
 - i. In your site-specific monitoring plan, you must also address the following:
 1. Ongoing operation and maintenance procedures in accordance with the general requirements of §63.8(c)(1), (c)(3), (c)(4)(ii), (c)(7), and (c)(8);
 2. Ongoing data quality assurance procedures in accordance with the general requirements of §63.8(d); and
 3. Ongoing recordkeeping and reporting procedures in accordance with the general requirements of §63.10(c), (e)(1), and (e)(2)(i).

[Reg.19.304 and 40 C.F.R. §63.11563(b)]

27. The permittee must install, operate, and maintain a continuous parameter monitoring system (CPMS) as specified:
 - a. The CPMS must complete a minimum of one cycle of operation for each successive 15-minute period.
 - b. To determine the 3-hour average, you must:
 - i. Have a minimum of four successive cycles of operation to have a valid hour of data.
 - ii. Have valid data from at least three of four equally spaced data values for that hour from a CPMS that is not out-of-control according to your site-specific monitoring plan.
 - iii. Determine the 3-hour average of all recorded readings for each operating day, except as stated in paragraph (g) of this section. You must have at least two of the three hourly averages for that period using only hourly average values that are based on valid data (*i.e.*, not from out-of-control periods).
 - c. You must record the results of each inspection, calibration, and validation check of the CPMS.

[Reg.19.304 and 40 C.F.R. §63.11563(c)]

28. For each temperature monitoring device, the permittee must meet the CPMS requirements in Specific Condition #27 and the following requirements:
 - a. Locate the temperature sensor in a position that provides a representative temperature.
 - b. For a noncryogenic temperature range, use a temperature sensor with a minimum measurement sensitivity of 2.8 °C or 1.0 percent of the temperature value, whichever is larger.

- c. If a chart recorder is used, the recorder sensitivity in the minor division must be at least 20 °F.
- d. Perform an accuracy check at least semiannually or following an operating parameter deviation:
 - i. According to the procedures in the manufacturer's documentation; or
 - ii. By comparing the sensor output to redundant sensor output; or
 - iii. By comparing the sensor output to the output from a calibrated temperature measurement device; or
 - iv. By comparing the sensor output to the output from a temperature simulator.
- e. Conduct accuracy checks any time the sensor exceeds the manufacturer's specified maximum operating temperature range or install a new temperature sensor.
- f. At least quarterly or following an operating parameter deviation, perform visual inspections of components if redundant sensors are not used.

[Reg.19.304 and 40 C.F.R. §63.11563(d)]

29. For each pressure measurement device, the permittee must meet the CPMS requirements in Specific Condition #27 and the following requirements:
- a. Locate the pressure sensor(s) in, or as close as possible, to a position that provides a representative measurement of the pressure.
 - b. Use a gauge with a minimum measurement sensitivity of 0.12 kiloPascals or a transducer with a minimum measurement sensitivity of 5 percent of the pressure range.
 - c. Check pressure tap for blockage daily. Perform an accuracy check at least quarterly or following an operating parameter deviation:
 - i. According to the manufacturer's procedures; or
 - ii. By comparing the sensor output to redundant sensor output.
 - d. Conduct calibration checks any time the sensor exceeds the manufacturer's specified maximum operating pressure range or install a new pressure sensor.
 - e. At least monthly or following an operating parameter deviation, perform a leak check of all components for integrity, all electrical connections for continuity, and all mechanical connections for leakage.
 - f. At least quarterly or following an operating parameter deviation, perform visible inspections on all components if redundant sensors are not used.

[Reg.19.304 and 40 C.F.R. §63.11563(e)]

30. The permittee must conduct a performance evaluation of each CPMS in accordance with your site-specific monitoring plan. [Reg.19.304 and 40 C.F.R. §63.11563(j)]
31. The permittee must operate and maintain the CPMS in continuous operation according to the site-specific monitoring plan. [Reg.19.304 and 40 C.F.R. §63.11563(k)]

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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 August 24, 2016. [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
500 gallon diesel storage tank	A-3

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 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
Air Division
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 thirty (30) 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 facilities 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 UU – *Standards of Performance for Asphalt Processing and Asphalt Roofing Manufacture*

ELECTRONIC CODE OF FEDERAL REGULATIONS

e-CFR data is current as of April 21, 2017

[Title 40](#) → [Chapter I](#) → [Subchapter C](#) → [Part 60](#) → Subpart UU

Title 40: Protection of Environment

[PART 60—STANDARDS OF PERFORMANCE FOR NEW STATIONARY SOURCES](#)

Subpart UU—Standards of Performance for Asphalt Processing and Asphalt Roofing Manufacture

Contents

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SOURCE: 47 FR 34143, Aug. 6, 1982, unless otherwise noted.

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§60.470 Applicability and designation of affected facilities.

(a) The affected facilities to which this subpart applies are each saturator and each mineral handling and storage facility at asphalt roofing plants; and each asphalt storage tank and each blowing still at asphalt processing plants, petroleum refineries, and asphalt roofing plants.

(b) Any saturator or mineral handling and storage facility under paragraph (a) of this section that commences construction or modification after November 18, 1980, is subject to the requirements of this subpart. Any asphalt storage tank or blowing still that processes and/or stores asphalt used for roofing only or for roofing and other purposes, and that commences construction or modification after November 18, 1980, is subject to the requirements of this subpart.

Any asphalt storage tank or blowing still that processes and/or stores only nonroofing asphalts and that commences construction or modification after May 26, 1981, is subject to the requirements of this subpart.

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§60.471 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.

Afterburner (A/B) means an exhaust gas incinerator used to control emissions of particulate matter.

Asphalt processing means the storage and blowing of asphalt.

Asphalt processing plant means a plant which blows asphalt for use in the manufacture of asphalt products.

Asphalt roofing plant means a plant which produces asphalt roofing products (shingles, roll roofing, siding, or saturated felt).

Asphalt storage tank means any tank used to store asphalt at asphalt roofing plants, petroleum refineries, and asphalt processing plants. Storage tanks containing cutback asphalts (asphalts diluted with solvents to reduce viscosity for low temperature applications) and emulsified asphalts (asphalts dispersed in water with an emulsifying agent) are not subject to this regulation.

Blowing still means the equipment in which air is blown through asphalt flux to change the softening point and penetration rate.

Catalyst means a substance which, when added to asphalt flux in a blowing still, alters the penetrating-softening point relationship or increases the rate of oxidation of the flux.

Coating blow means the process in which air is blown through hot asphalt flux to produce coating asphalt. The coating blow starts when the air is turned on and stops when the air is turned off.

Electrostatic precipitator (ESP) means an air pollution control device in which solid or liquid particulates in a gas stream are charged as they pass through an electric field and precipitated on a collection surface.

High velocity air filter (HVAF) means an air pollution control filtration device for the removal of sticky, oily, or liquid aerosol particulate matter from exhaust gas streams.

Mineral handling and storage facility means the areas in asphalt roofing plants in which minerals are unloaded from a carrier, the conveyor transfer points between the carrier and the storage silos, and the storage silos.

Saturator means the equipment in which asphalt is applied to felt to make asphalt roofing products. The term saturator includes the saturator, wet looper, and coater.

[47 FR 34143, Aug. 6, 1982, as amended at 65 FR 61762, Oct. 17, 2000]

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§60.472 Standards for particulate matter.

(a) On and after the date on which §60.8(b) requires a performance test to be completed, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any saturator:

(1) Particulate matter in excess of:

(i) 0.04 kg/Mg (0.08 lb/ton) of asphalt shingle or mineral-surfaced roll roofing produced, or

(ii) 0.4 kg/Mg (0.8 lb/ton) of saturated felt or smooth-surfaced roll roofing produced;

(2) Exhaust gases with opacity greater than 20 percent; and

(3) Any visible emissions from a saturator capture system for more than 20 percent of any period of consecutive valid observations totaling 60 minutes. Saturators that were constructed before November 18, 1980, and that have not been reconstructed since that date and that become subject to these standards through modification are exempt from the visible emissions standard. Saturators that have been newly constructed or reconstructed since November 18, 1980 are subject to the visible emissions standard.

(b) On and after the date on which §60.8(b) requires a performance test to be completed, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any blowing still:

(1) Particulate matter in excess of 0.67 kg/Mg (1.3 lb/ton) of asphalt charged to the still when a catalyst is added to the still; and

(2) Particulate matter in excess of 0.71 kg/Mg (1.4 lb/ton) of asphalt charged to the still when a catalyst is added to the still and when No. 6 fuel oil is fired in the afterburner; and

(3) Particulate matter in excess of 0.60 kg/Mg (1.2 lb/ton) of asphalt charged to the still during blowing without a catalyst; and

(4) Particulate matter in excess of 0.64 kg/Mg (1.3 lb/ton) of asphalt charged to the still during blowing without a catalyst and when No. 6 fuel oil is fired in the afterburner; and

(5) Exhaust gases with an opacity greater than 0 percent unless an opacity limit for the blowing still when fuel oil is used to fire the afterburner has been established by the Administrator in accordance with the procedures in §60.474(g).

(c) Within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup of such facility, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any asphalt storage tank exhaust gases with opacity greater than 0 percent, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for clearing. The control device shall not be bypassed during this 15-minute period. If, however, the emissions from any asphalt storage tank(s) are ducted to a control device for a saturator, the combined emissions shall meet the emission limit contained in paragraph (a) of this section during the time the saturator control device is operating. At any other time the asphalt storage tank(s) must meet the opacity limit specified above for storage tanks.

(d) Within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup of such facility, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any mineral handling and storage facility emissions with opacity greater than 1 percent.

[47 FR 34143, Aug. 6, 1982, as amended at 65 FR 61762, Oct. 17, 2000; 79 FR 11250, Feb. 27, 2014]

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§60.473 Monitoring of operations.

(a) The owner or operator subject to the provisions of this subpart, and using either an electrostatic precipitator or a high velocity air filter to meet the emission limit in §60.472(a)(1) and/or (b)(1) shall continuously monitor and record the temperature of the gas at the inlet of the control device. The temperature monitoring instrument shall have an accuracy of $\pm 15^{\circ}\text{C}$ ($\pm 25^{\circ}\text{F}$) over its range.

(b) The owner or operator subject to the provisions of this subpart and using an afterburner to meet the emission limit in §60.472(a)(1) and/or (b)(1) shall continuously monitor and record the temperature in the combustion zone of the afterburner. The monitoring instrument shall have an accuracy of $\pm 10^{\circ}\text{C}$ ($\pm 18^{\circ}\text{F}$) over its range.

(c) An owner or operator subject to the provisions of this subpart and using a control device not mentioned in paragraphs (a) or (b) of this section shall provide to the Administrator information describing the operation of the control device and the process parameter(s) which would indicate proper operation and maintenance of the device. The Administrator may require continuous monitoring and will determine the process parameters to be monitored.

(d) The industry is exempted from the quarterly reports required under §60.7(c). The owner/operator is required to record and report the operating temperature of the control device during the performance test and, as required by §60.7(d), maintain a file of the temperature monitoring results for at least two years.

[47 FR 34143, Aug. 6, 1982, as amended at 65 FR 61762, Oct. 17, 2000]

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§60.474 Test methods and procedures.

(a) For saturators, the owner or operator shall conduct performance tests required in §60.8 as follows:

(1) If the final product is shingle or mineral-surfaced roll roofing, the tests shall be conducted while 106.6-kg (235-lb) shingle is being produced.

(2) If the final product is saturated felt or smooth-surfaced roll roofing, the tests shall be conducted while 6.8-kg (15-lb) felt is being produced.

(3) If the final product is fiberglass shingle, the test shall be conducted while a nominal 100-kg (220-lb) shingle is being produced.

(b) 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).

(c) The owner or operator shall determine compliance with the particulate matter standards in §60.472 as follows:

(1) The emission rate (E) of particulate matter shall be computed for each run using the following equation:

$$E = (c_s Q_{sd}) / (PK)$$

where:

E = emission rate of particulate matter, kg/Mg (lb/ton).

c_s = concentration of particulate matter, g/dscm (gr/dscf).

Q_{sd} = volumetric flow rate of effluent gas, dscm/hr (dscf/hr).

P = asphalt roofing production rate or asphalt charging rate, Mg/hr (ton/hr).

K = conversion factor, 1000 g/kg [7000 (gr/lb)].

(2) Method 5A shall be used to determine the particulate matter concentration (c_s) and volumetric flow rate (Q_{sd}) of the effluent gas. For a saturator, the sampling time and sample volume for each run shall be at least 120 minutes and 3.00 dscm (106 dscf), and for the blowing still, at least 90 minutes or the duration of the coating blow or non-coating blow, whichever is greater, and 2.25 dscm (79.4 dscf).

(3) For the saturator, the asphalt roofing production rate (P) for each run shall be determined as follows: The amount of asphalt roofing produced on the shingle or saturated felt process lines shall be obtained by direct measurement. The asphalt roofing production rate is the amount produced divided by the time taken for the run.

(4) For the blowing still, the asphalt charging rate (P) shall be computed for each run using the following equation:

$$P = (Vd) / (K' \theta)$$

where:

P = asphalt charging rate to blowing still, Mg/hr (ton/hr).

V = volume of asphalt charged, m³ (ft³).

d = density of asphalt, kg/m³ (lb/ft³).

K' = conversion factor, 1000 kg/Mg (2000 lb/ton).

θ = duration of test run, hr.

(i) The volume (V) of asphalt charged shall be measured by any means accurate to within 10 percent.

(ii) The density (d) of the asphalt shall be computed using the following equation:

$$d = K_1 - K_2 T_i$$

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Where:

d = Density of the asphalt, kg/m³ (lb/ft³)

K₁ = 1056.1 kg/m³ (metric units)

= 64.70 lb/ft³ (English Units)

K₂ = 0.6176 kg/(m³ °C) (metric units)

= 0.0694 lb/(ft³ °F) (English Units)

T_i = temperature at the start of the blow, °C (deg;F)

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

(d) The Administrator will determine compliance with the standards in §60.472(a)(3) by using Method 22, modified so that readings are recorded every 15 seconds for a period of consecutive observations during representative conditions (in accordance with §60.8(c)) totaling 60 minutes. A performance test shall consist of one run.

(e) The owner or operator shall use the monitoring device in §60.473 (a) or (b) to monitor and record continuously the temperature during the particulate matter run and shall report the results to the Administrator with the performance test results.

(f) If at a later date the owner or operator believes that the emission limits in §60.472(a) and (b) are being met even though one of the conditions listed in this paragraph exist, he may submit a written request to the Administrator to repeat the performance test and procedure outlined in paragraph (c) of this section.

(1) The temperature measured in accordance with §60.473(a) is exceeding that measured during the performance test.

(2) The temperature measured in accordance with §60.473(b) is lower than that measured during the performance test.

(g) If fuel oil is to be used to fire an afterburner used to control emissions from a blowing still, the owner or operator may petition the Administrator in accordance with §60.11(e) of the General Provisions to establish an opacity standard for the blowing still that will be the opacity standard when fuel oil is used to fire the afterburner. To obtain this opacity standard, the owner or operator must request the Administrator to determine opacity during an initial, or subsequent, performance test when fuel oil is used to fire the afterburner. Upon receipt of the results of the performance test, the Administrator will make a finding concerning compliance with the mass standard for the blowing still. If the Administrator finds that the facility was in compliance with the mass standard during the performance test but failed to meet the zero opacity standard, the Administrator will establish and promulgate in the FEDERAL REGISTER an opacity standard for the blowing still that will be the opacity standard when fuel oil is used to fire the afterburner. When the afterburner is fired with natural gas, the zero percent opacity remains the applicable opacity standard.

[54 FR 6677, Feb. 14, 1989, as amended 54 FR 27016, June 27, 1989; 65 FR 61762, Oct. 17, 2000]

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APPENDIX B

40 C.F.R. Part 63, Subpart AAAAAAA – *National Emission Standards for Hazardous Air Pollutants for Area Sources: Asphalt Processing and Asphalt Roofing Manufacturing*

ELECTRONIC CODE OF FEDERAL REGULATIONS

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[Title 40](#) → [Chapter I](#) → [Subchapter C](#) → [Part 63](#) → Subpart AAAAAAA

Title 40: Protection of Environment

[PART 63—NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR SOURCE CATEGORIES \(CONTINUED\)](#)

Subpart AAAAAAA—National Emission Standards for Hazardous Air Pollutants for Area Sources: Asphalt Processing and Asphalt Roofing Manufacturing

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SOURCE: 74 FR 63260, Dec. 2, 2009, unless otherwise noted.

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APPLICABILITY AND COMPLIANCE DATES

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§63.11559 Am I subject to this subpart?

(a) You are subject to this subpart if you own or operate an asphalt processing operation and/or asphalt roofing manufacturing operation that is an area source of hazardous air pollutant (HAP) emissions, as defined in §63.2.

(b) This subpart applies to each new or existing affected source as defined in paragraphs (b)(1) and (b)(2) of this section.

(1) *Asphalt processing*. The affected source for asphalt processing operations is the collection of all blowing stills, as defined in §63.11566, at an asphalt processing operation.

(2) *Asphalt roofing manufacturing*. The affected source for asphalt roofing manufacturing operations is the collection of all asphalt coating equipment, as defined in §63.11566, at an asphalt roofing manufacturing operation.

(c) This subpart does not apply to hot mix asphalt plant operations that are used in the paving of roads or hardstand, or operations where asphalt may be used in the fabrication of a built-up roof.

(d) An affected source is a new affected source if you commenced construction or reconstruction after July 9, 2009.

(e) An affected source is reconstructed if it meets the criteria as defined in §63.2.

(f) An affected source is an existing source if it is not new or reconstructed.

(g) This subpart does not apply to research or laboratory facilities, as defined in section 112(c)(7) of the Clean Air Act.

(h) You are exempt from the obligation to obtain a permit under 40 CFR part 70 or 40 CFR part 71, provided you are not otherwise required to obtain a permit under 40 CFR 70.3(a) or 40 CFR 71.3(a). Notwithstanding the previous sentence, you must continue to comply with the provisions of this subpart.

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§63.11560 What are my compliance dates?

(a) If you own or operate an existing affected source, you must be in compliance with the applicable provisions in this subpart no later than December 2, 2010. As specified in §63.11562(f), you must demonstrate initial compliance within 180 calendar days after December 2, 2010.

(b) If you own or operate a new affected source, you must be in compliance with the provisions in this subpart on or before December 2, 2009 or upon startup, whichever date is later. As specified in §63.11562(g), you must demonstrate initial compliance with the applicable emission limits no later than 180 calendar days after December 2, 2009 or within 180 calendar days after startup of the source, whichever is later.

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STANDARDS AND COMPLIANCE REQUIREMENTS

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§63.11561 What are my standards and management practices?

(a) For asphalt processing operations, you must meet the emission limits specified in Table 1 of this subpart.

(b) For asphalt roofing manufacturing lines, you must meet the applicable emission limits specified in Table 2 of this subpart.

(c) These standards apply at all times.

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§63.11562 What are my initial compliance requirements?

(a) For asphalt processing operations, you must:

(1) Demonstrate initial compliance with the emission limits specified in Table 1 of this subpart by:

(i) Conducting emission tests using the methods specified in Table 3 of this subpart; or

(ii) Using the results of a previously-conducted emission test as specified in paragraph (d) of this section.

(2) Establish the value or range of values of the operating parameters specified in Table 4 of this subpart:

(i) Using the operating parameter data recorded during the compliance emission tests; or

(ii) Using the operating parameter data recorded during a previously-conducted emission test.

(b) For asphalt roofing manufacturing lines that use a control device to comply with the emission limits in Table 2 of this subpart, you must:

(1) Demonstrate initial compliance by:

(i) Conducting emission tests using the methods specified in Table 3 of this subpart; or

(ii) Using the results of a previously-conducted emission test as specified in paragraph (d) of this section.

(2) Establish the value of the operating parameter specified in Table 4 of this subpart for thermal oxidizers:

(i) Using the operating parameter data recorded during the compliance emission tests; or

(ii) Using the operating parameter data recorded during a previously-conducted emission test.

(3) Establish the value or range of values of the operating parameters specified in Table 4 of this subpart for control devices other than thermal oxidizers:

- (i) Using the operating parameter data recorded during the compliance emission tests;
- (ii) Using the operating parameter data recorded during a previously-conducted emission test; or
- (iii) Using manufacturer performance specifications.

(c) For asphalt roofing manufacturing lines that do not require a control device to comply with the emission limits in Table 2 of this subpart, you must:

(1) Demonstrate initial compliance by:

- (i) Conducting emission tests using the methods specified in Table 3 of this subpart,
- (ii) Using the results of a previously-conducted emission test as specified in paragraph (d) of this section; or
- (iii) Using process knowledge and engineering calculations as specified in paragraph (e) of this section.

(2) Establish the value or range of values of the operating parameters specified in Table 4 of this subpart:

- (i) Using the operating parameter data recorded during the compliance emission tests;
- (ii) Using the operating parameter data recorded during a previously-conducted emission test; or
- (iii) Using process knowledge and engineering calculations as specified in paragraph (f) of this section.

(d) If you are using a previously-conducted emission test to demonstrate compliance with the emission limitations in this subpart for existing sources, as specified in paragraphs (a)(1)(ii), (b)(1)(ii), or (c)(1)(ii) of this section, the following conditions must be met:

- (1) The emission test was conducted within the last 5 years;
- (2) No changes have been made to the process since the time of the emission test;
- (3) The operating conditions and test methods used for the previous test conform to the requirements of this subpart; and

(4) The data used to establish the value or range of values of the operating parameters, as specified in paragraphs (a)(2)(ii), (b)(2)(ii), or (c)(2)(ii) of this section, were recorded during the emission test.

(e) If you are using process knowledge and engineering calculations to demonstrate initial compliance as specified in paragraph (c)(1)(iii) of this section, you must prepare written documentation that contains the data and any assumptions used to calculate the process emission rate that demonstrate compliance with the emission limits specified in Table 2 of this subpart.

(f) If you are using process knowledge and engineering calculations to establish the value or range of values of operating parameters as specified in paragraph (c)(2)(iii) of this section, you must prepare written documentation that contains the data and any assumptions used to show that the process parameters and corresponding parameter values correlate to the process emissions.

(g) For existing sources, you must demonstrate initial compliance no later than 180 calendar days after December 2, 2010.

(h) For new sources, you must demonstrate initial compliance no later than 180 calendar days after December 2, 2009 or within 180 calendar days after startup of the source, whichever is later.

(i) For emission tests conducted to demonstrate initial compliance with the emission limits specified in Tables 1 and 2 of this subpart, you must follow the requirements specified in paragraphs (i)(1) through (i)(4) of this section.

(1) You must conduct the tests while manufacturing the product that generates the greatest PAH and PM emissions to the control device inlet, or exiting the process if you are not using a control device to comply with the emissions limits specified in Tables 1 and 2 of this subpart.

(2) You must conduct a minimum of three separate test runs for each compliance test specified in paragraphs (a)(1)(i), (b)(1)(i), and (c)(1)(i) of this section according to the requirements specified in §63.7(e)(3). The sampling time and sample volume of each test run must be as follows:

(i) For asphalt processing operations, the sampling time and sample volume for each test run must be at least 90 minutes or the duration of the coating blow or non-coating blow, whichever is greater, and 2.25 dscm (79.4 dscf).

(ii) For asphalt coating operations, the sampling time and sample volume for each test run must be at least 120 minutes and 3.00 dscm (106 dscf).

(3) For asphalt processing operations, you must use the following equations to calculate the asphalt charging rate (P).

$$(i) P = (Vd)/(K' \Theta)$$

Where:

P = asphalt charging rate to blowing still, Mg/hr (ton/hr).

V = volume of asphalt charged, m³ (ft³).

d = density of asphalt, kg/m³ (lb/ft³).

K' = conversion factor, 1000 kg/Mg (2000 lb/ton).

Θ = duration of test run, hr.

$$(ii) d = K_1 - K_2 T_i$$

Where:

d = Density of the asphalt, kg/m³ (lb/ft³)

$$d = K_1 - K_2 T_i$$

K₁ = 1056.1 kg/m³ (metric units)

= 66.6147 lb/ft³ (English Units)

K₂ = 0.6176 kg/(m³ °C) (metric units)

= 0.02149 lb/(ft³ °F) (English Units)

T_i = temperature at the start of the blow, °C (°F)

(4) You must use the following equation to demonstrate compliance with the emission limits specified in Table 2 of this subpart:

$$E = [(C)*(Q)/(P)*(K)]$$

Where:

E = emission rate of particulate matter, kg/Mg (lb/ton).

C = concentration of particulate matter, g/dscm (gr/dscf).

Q = volumetric flow rate of effluent gas, dscm/hr (dscf/hr).

P = the average asphalt roofing production rate or asphalt charging rate over the duration of the test, Mg/hr (ton/hr).

K = conversion factor, 1000 g/kg [7000 (gr/lb)].

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§63.11563 What are my monitoring requirements?

(a) You must maintain the operating parameters established under §63.11562(a)(2), (b)(2), (b)(3), and (c)(2) as specified in Table 4 of this subpart.

(b) If you are using a control device to comply with the emission limits specified in Tables 1 and 2 of this subpart, you must develop and make available for inspection by the delegated authority, upon request, a site-specific monitoring plan for each monitoring system that addresses the following:

(1) Installation of the CPMS probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device);

(2) Performance and equipment specifications for the probe or interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction system; and

(3) Performance evaluation procedures and acceptance criteria (e.g., calibrations).

(i) In your site-specific monitoring plan, you must also address the following:

(A) Ongoing operation and maintenance procedures in accordance with the general requirements of §63.8(c)(1), (c)(3), (c)(4)(ii), (c)(7), and (c)(8);

(B) Ongoing data quality assurance procedures in accordance with the general requirements of §63.8(d); and

(C) Ongoing recordkeeping and reporting procedures in accordance with the general requirements of §63.10(c), (e)(1), and (e)(2)(i).

(c) If you are using a control device to comply with the emission limits specified in Tables 1 and 2 of this subpart, you must install, operate, and maintain a continuous parameter monitoring system (CPMS) as specified in paragraphs (c)(1) through (c)(3) of this section.

(1) The CPMS must complete a minimum of one cycle of operation for each successive 15-minute period.

(2) To determine the 3-hour average, you must:

(i) Have a minimum of four successive cycles of operation to have a valid hour of data.

(ii) Have valid data from at least three of four equally spaced data values for that hour from a CPMS that is not out-of-control according to your site-specific monitoring plan.

(iii) Determine the 3-hour average of all recorded readings for each operating day, except as stated in paragraph (g) of this section. You must have at least two of the three hourly averages for that period using only hourly average values that are based on valid data (*i.e.*, not from out-of-control periods).

(3) You must record the results of each inspection, calibration, and validation check of the CPMS.

(d) For each temperature monitoring device, you must meet the CPMS requirements in paragraphs (c)(1) through (c)(3) of this section and the following requirements:

(1) Locate the temperature sensor in a position that provides a representative temperature.

(2) For a noncryogenic temperature range, use a temperature sensor with a minimum measurement sensitivity of 2.8 °C or 1.0 percent of the temperature value, whichever is larger.

(3) If a chart recorder is used, the recorder sensitivity in the minor division must be at least 20 °F.

(4) Perform an accuracy check at least semiannually or following an operating parameter deviation:

(i) According to the procedures in the manufacturer's documentation; or

(ii) By comparing the sensor output to redundant sensor output; or

(iii) By comparing the sensor output to the output from a calibrated temperature measurement device; or

(iv) By comparing the sensor output to the output from a temperature simulator.

(5) Conduct accuracy checks any time the sensor exceeds the manufacturer's specified maximum operating temperature range or install a new temperature sensor.

(6) At least quarterly or following an operating parameter deviation, perform visual inspections of components if redundant sensors are not used.

(e) For each pressure measurement device, you must meet the CPMS requirements of paragraphs (e)(1) through (e)(6) of this section and the following requirements:

(1) Locate the pressure sensor(s) in, or as close as possible, to a position that provides a representative measurement of the pressure.

(2) Use a gauge with a minimum measurement sensitivity of 0.12 kiloPascals or a transducer with a minimum measurement sensitivity of 5 percent of the pressure range.

(3) Check pressure tap for blockage daily. Perform an accuracy check at least quarterly or following an operating parameter deviation:

(i) According to the manufacturer's procedures; or

(ii) By comparing the sensor output to redundant sensor output.

(4) Conduct calibration checks any time the sensor exceeds the manufacturer's specified maximum operating pressure range or install a new pressure sensor.

(5) At least monthly or following an operating parameter deviation, perform a leak check of all components for integrity, all electrical connections for continuity, and all mechanical connections for leakage.

(6) At least quarterly or following an operating parameter deviation, perform visible inspections on all components if redundant sensors are not used.

(f) For each electrostatic precipitator (ESP) used to control emissions, you must install and operate a CPMS that meets the requirements of paragraphs (c)(1) through (c)(3) of this section to provide representative measurements of the voltage supplied to the ESP.

(g) If you are not using a control device to comply with the emission limits specified in Tables 1 and 2 of this subpart, you must develop and make available for inspection by the delegated authority, upon request, a site-specific monitoring plan. The plan must specify the process parameters established during the initial compliance assessment and how they are being monitored and maintained to demonstrate continuous compliance.

(h) If you would like to use parameters or means other than those specified in Table 4 of this subpart to demonstrate continuous compliance with the emission limits specified in Tables 1 and 2 of this subpart, you must apply to the Administrator for approval of an alternative monitoring plan under §63.8(f). The plan must specify how process parameters established during the initial compliance assessment will be monitored and maintained to demonstrate continuous compliance.

(i) At all times the owner or operator must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the owner or operator to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

(j) You must conduct a performance evaluation of each CPMS in accordance with your site-specific monitoring plan.

(k) You must operate and maintain the CPMS in continuous operation according to the site-specific monitoring plan.

[74 FR 63260, Dec. 2, 2009, as amended at 75 FR 12989, Mar. 18, 2010]

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§63.11564 What are my notification, recordkeeping, and reporting requirements?

(a) You must submit the notifications specified in paragraphs (a)(1) through (a)(6) of this section.

(1) You must submit all of the notifications in §§63.5(b), 63.7(b); 63.8(e) and (f); 63.9(b) through (e); and 63.9(g) and (h) that apply to you by the dates specified in those sections.

(2) As specified in §63.9(b)(2), if you have an existing affected source, you must submit an Initial Notification not later than 120 calendar days after December 2, 2009.

(3) As specified in §63.9(b)(4) and (5), if you have a new affected source, you must submit an Initial Notification not later than 120 calendar days after you become subject to this subpart.

(4) You must submit a notification of intent to conduct a compliance test at least 60 calendar days before the compliance test is scheduled to begin, as required in §63.7(b)(1).

(5) You must submit a Notification of Compliance Status according to §63.9(h)(2)(ii). You must submit the Notification of Compliance Status, including the compliance test results, before the close of business on the 60th calendar day following the completion of the compliance test according to §63.10(d)(2).

(6) If you are using data from a previously-conducted emission test to serve as documentation of compliance with the emission standards and operating limits of this subpart, you must submit the test data in lieu of the initial compliance test results with the Notification of Compliance Status required under paragraph (a)(5) of this section.

(b) You must submit a compliance report as specified in paragraphs (b)(1) through (b)(4) of this section.

(1) If you are using a control device to comply with the emission limits, the compliance report must identify the controlled units (e.g., blowing stills, saturators, coating mixers, coaters). If you are not using a control device to comply with the emission limits, the compliance report must identify the site-specific process operating parameters monitored to determine compliance with the emission limits.

(2) During periods for which there are no deviations from any emission limitations (emission limit or operating limit) that apply to you, the compliance report must contain the information specified in paragraphs (b)(2)(i) through (b)(2)(v) of this section.

(i) Company name and address.

(ii) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.

(iii) Date of report and beginning and ending dates of the reporting period.

(iv) A statement that there were no deviations from the emission limitations during the reporting period.

(v) If there were no periods during which the CPMS was out-of-control as specified in §63.8(c)(7), a statement that there were no periods during which the CPMS was out-of-control during the reporting period.

(3) For each deviation from an emission limitation (emission limit and operating limit), you must include the information in paragraphs (b)(3)(i) through (b)(3)(xii) of this section.

(i) The date and time that each deviation started and stopped.

(ii) The date and time that each CPMS was inoperative, except for zero (low-level) and high-level checks.

(iii) The date, time and duration that each CPMS was out-of-control, including the information in §63.8(c)(8).

(iv) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.

(v) A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period.

(vi) A breakdown of the total duration of the deviations during the reporting period into those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.

(vii) A summary of the total duration of CPMS downtime during the reporting period and the total duration of CPMS downtime as a percent of the total source operating time during that reporting period.

(viii) An identification of each air pollutant that was monitored at the affected source.

(ix) A brief description of the process units.

(x) A brief description of the CPMS.

(xi) The date of the latest CPMS certification or audit.

(xii) A description of any changes in CPMS or controls since the last reporting period.

(4) Unless the Administrator has approved a different schedule for submission of reports under §63.10(a), you must submit each report specified in paragraph (b) of this section according to the following dates:

(i) The first compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.11560 and ending on June 30 or December 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for your source in §63.11560.

(ii) The first compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date follows the end of the first calendar half after the compliance date that is specified for your affected source in §63.11560.

(iii) Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.

(iv) Each subsequent compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

(c) You must maintain the records specified in paragraphs (c)(1) through (c)(10) of this section.

(1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirements in §63.10(b)(2)(xiv).

(2) Copies of emission tests used to demonstrate compliance and performance evaluations as required in §63.10(b)(2)(viii).

(3) Documentation that shows that the following conditions are true if you use a previously-conducted emission test to demonstrate initial compliance as specified in §63.11562(a)(1)(ii), (b)(1)(ii), and (c)(1)(ii):

- (i) The test was conducted within the last 5 years;
 - (ii) No changes have been made to the process since the time of the emission test;
 - (iii) The operating conditions and test methods used for the previous test conform to the requirements of this subpart; and
 - (iv) The data used to establish the value or range of values of the operating parameters, as specified in §63.11562(a)(2)(ii), (b)(2)(ii), or (c)(2)(ii), were recorded during the emission test.
- (4) Documentation that identifies the operating parameters and values specified in Table 4 of this subpart and that contains the data used to establish the parameter values as specified in §63.11562(a)(2), (b)(2), (b)(3), or (c)(2).
- (5) Copies of the written manufacturers performance specifications used to establish operating parameter values as specified in §63.11562(b)(3)(iii).
- (6) Documentation of the process knowledge and engineering calculations used to demonstrate initial compliance as specified in §63.11562(e).
- (7) Documentation of the process knowledge and engineering calculations used to establish the value or range of values of operating parameters as specified in §63.11562(f).
- (8) A copy of the site-specific monitoring plan required under §63.11563(b) or (g).
- (9) A copy of the approved alternative monitoring plan required under §63.11563(h), if applicable.
- (10) Records of the operating parameter values required in Table 4 of this subpart to show continuous compliance with each operating limit that applies to you.

[74 FR 63260, Dec. 2, 2009, as amended at 75 FR 12989, Mar. 18, 2010]

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OTHER REQUIREMENTS AND INFORMATION

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§63.11565 What general provisions sections apply to this subpart?

You must comply with the requirements of the General Provisions (40 CFR part 63, subpart A) according to Table 5 of this subpart.

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§63.11566 What definitions apply to this subpart?

Asphalt coating equipment means the saturators, coating mixers, and coaters used to apply asphalt to substrate to manufacture roofing products (e.g., shingles, roll roofing).

Asphalt flux means the organic residual material from distillation of crude oil that is generally used in asphalt roofing manufacturing and paving and non-paving asphalt products.

Asphalt processing operation means any operation engaged in the preparation of asphalt flux at stand-alone asphalt processing facilities, petroleum refineries, and asphalt roofing facilities. Asphalt preparation, called “blowing,” is the oxidation of asphalt flux, achieved by bubbling air through the heated asphalt, to raise the softening point and to reduce penetration of the oxidized asphalt. An asphalt processing facility includes one or more asphalt flux blowing stills.

Asphalt roofing manufacturing operation means the collection of equipment used to manufacture asphalt roofing products through a series of sequential process steps. The equipment configuration of an asphalt roofing manufacturing process varies depending upon the type of substrate used (i.e., organic or inorganic). For example, an asphalt roofing manufacturing line that uses organic substrate (e.g., felt) typically would consist of a saturator (and wet looper), coating mixer, and coater (although the saturator could be bypassed if the line manufacturers multiple types of products). An asphalt roofing manufacturing line that uses inorganic (fiberglass mat) substrate typically would consist of a coating mixer and coater.

Blowing still means the equipment in which air is blown through asphalt flux to change the softening point and penetration rate of the asphalt flux, creating oxidized asphalt.

Built-up roofing operations means operations involved in the on-site (e.g., at a commercial building) assembly of roofing system components (e.g., asphalt, substrate, surface granules).

Coater means the equipment used to apply amended (filled or modified) asphalt to the top and bottom of the substrate (typically fiberglass mat) used to manufacture shingles and rolled roofing products.

Coating mixer means the equipment used to mix coating asphalt and a mineral stabilizer, prior to applying the stabilized coating asphalt to the substrate.

Hot-mix asphalt operation means operations involved in mixing asphalt cement and aggregates to produce materials for paving roadways and hardstand (e.g., vehicle parking lots, prepared surfaces for material storage).

Particulate matter (PM) means, for the purposes of this subpart, includes any material determined gravimetrically using EPA Method 5A—Determination of Particulate Matter Emissions From the Asphalt Processing And Asphalt Roofing Industry (40 CFR part 60, appendix A-3).

Responsible official is defined in §63.2.

Saturator means the equipment used to impregnate a substrate (predominantly organic felt) with asphalt. Saturators are predominantly used for the manufacture of rolled-roofing products (e.g., saturated felt). For the purposes of this subpart, the term saturator includes impregnation vat and wet looper.

Wet looper means the series of rollers typically following the saturator used to provide additional absorption time for asphalt to penetrate the roofing substrate.

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§63.11567 Who implements and enforces this subpart?

(a) This subpart can be implemented and enforced by us, the U.S. Environmental Protection Agency (U.S. EPA), or a delegated authority such as your State, local, or Tribal agency. If the U.S. EPA Administrator has delegated authority to your State, local, or Tribal agency, then that agency, in addition to the U.S. EPA, has the authority to implement and enforce this subpart. You should contact your U.S. EPA Regional Office to find out if implementation and enforcement of this subpart is delegated.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or Tribal agency under 40 CFR part 63, subpart E, the following authorities are retained by the Administrator of U.S. EPA:

- (1) Approval of alternatives to the requirements in §§63.11559, 63.11560, 63.11561, 63.11562, and 63.11563.
- (2) Approval of major changes to test methods under §63.7(e)(2)(ii) and (f) and as defined in §63.90.
- (3) Approval of major changes to monitoring under §63.8(f) and as defined in §63.90.
- (4) Approval of major changes to recordkeeping and reporting under §63.10(f) and as defined in §63.90.

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Table 1 to Subpart AAAAAAA of Part 63—Emission Limits for Asphalt Processing (Refining) Operations

For * * *	You must meet the following emission limits * * *
1. Blowing stills	a. Limit PAH emissions to 0.003 lb/ton of asphalt charged to the blowing stills; or
	b. Limit PM emissions to 1.2 lb/ton of asphalt charged to the blowing stills.

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Table 2 to Subpart AAAAAAA of Part 63—Emission Limits for Asphalt Roofing Manufacturing (Coating) Operations

For * * *	
1. Coater-only production lines	a. Limit PAH emissions to 0.0002 lb/ton of asphalt roofing product manufactured; or b. Limit PM emissions to 0.06 lb/ton of asphalt roofing product manufactured.
2. Saturator-only production lines	a. Limit PAH emissions to 0.0007 lb/ton of asphalt roofing product manufactured; or b. Limit PM emissions to 0.30 lb/ton of asphalt roofing product manufactured.
3. Combined saturator/coater production lines	a. Limit PAH emissions to 0.0009 lb/ton of asphalt roofing product manufactured; or b. Limit PM emissions to 0.36 lb/ton of asphalt roofing product manufactured.

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Table 3 to Subpart AAAAAAA of Part 63—Test Methods

For * * *	You must use * * *
1. Selecting the sampling locations ⁹ and the number of traverse points	EPA test method 1 or 1A in appendix A to part 60.
2. Determining the velocity and volumetric flow rate	EPA test method 2, 2A, 2C, 2D, 2F, or 2G, as appropriate, in appendix A to part 60.
3. Determining the gas molecular weight used for flow rate determination	EPA test method 3, 3A, 3B, as appropriate, in appendix A to part 60.

4. Measuring the moisture content of the stack gas	EPA test method 4 in appendix A to part 60.
5. Measuring the PM emissions	EPA test method 5A in appendix A to part 60.
6. Measuring the PAH emissions	EPA test method 23 ^b with analysis by SW-846 Method 8270D.

^aThe sampling locations must be located at the outlet of the process equipment (or control device, if applicable), prior to any releases to the atmosphere.

^bWhen using EPA Method 23, the toluene extraction step specified in section 3.1.2.1 of the method should be omitted.

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Table 4 to Subpart AAAAAAA of Part 63—Operating Limits

If you comply with the emission limits using * * *	You must establish an operating value for * * *	And maintain ^a * * *
1. A thermal oxidizer	Combustion zone temperature	The 3-hour average combustion zone temperature at or above the operating value established as specified in §63.11562(a)(2) and (b)(2).
2. A high-efficiency air filter or fiber bed filter	a. Inlet gas temperature ^b , and b. Pressure drop across device ^b	The 3-hour average inlet gas temperature within the operating range established as specified in §63.11562(a)(2) and (b)(3). The 3-hour average pressure drop across the device within the approved operating range established as specified in §63.11562(a)(2) and (b)(3).
3. An electrostatic precipitator (ESP)	Voltage ^c to the ESP	The 3-hour average ESP voltage ^c at or above the approved operating value established as specified in §63.11562(a)(2) and (b)(3).
4. Process modifications (<i>i.e.</i> , a control device is not required)	Appropriate process monitoring parameters. ^d	The monitoring parameters within the operating values established as specified in §63.11562(c)(2).

^aThe 3-hour averaging period applies at all times other than startup and shutdown, as defined in §63.2. Within 24 hours of a startup event, or 24 hours prior to a shutdown event, you must normalize the emissions that occur during the startup or shutdown, when there is no production rate available to assess compliance with the lb/ton of product emission limits, with emissions that occur when the process is operational. The emissions that occur during the startup or shutdown event must be included with the process emissions when assessing compliance with the emission limits specified in Tables 1 and 2 of this subpart.

^bAs an alternative to monitoring the inlet gas temperature and pressure drop, you can use a leak detection system that identifies when the filter media has been comprised.

^cAs an alternative to monitoring the ESP voltage, you can monitor the ESP instrumentation (*e.g.* light, alarm) that indicates when the ESP must be cleaned and maintain a record of the instrumentation on an hourly basis. Failure to service the ESP within one hour of the indication is an exceedance of the applicable monitoring requirements specified in §63.11563(a).

^dIf you are not using a control device to comply with the emission limits specified in Table 2 of this subpart, the process parameters and corresponding parameter values that you select to demonstrate continuous compliance must correlate to the process emissions.

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Table 5 to Subpart AAAAAAA of Part 63—Applicability of General Provisions to Subpart AAAAAAA

Citation	Subject	Applies to subpart AAAAAAA
§63.1	Applicability	Yes.
§63.2	Definitions	Yes.
§63.3	Units and Abbreviations	Yes.
§63.4	Prohibited Activities	Yes.
§63.5	Construction/Reconstruction	Yes.
§63.6(a)-(d)	Compliance With Standards and Maintenance Requirements	Yes.
§63.6(e)(1)(i)	Operation and Maintenance Requirements	No.
§63.6(e)(1)(ii)	Operation and Maintenance Requirements	No.
§63.6(e)(1)(iii)	Operation and Maintenance Requirements	Yes.
§63.6(e)(2)	[Reserved]	
§63.6(e)(3)	Startup, Shutdown, and Malfunction Plan	No. Subpart AAAAAAA does not require startup, shutdown, and malfunction plans.
§63.6(f)(1)	Compliance with Nonopacity Emission Standards	No. The emission limits apply at all times.
§63.6(f)(2)-(3)	Methods for Determining Compliance and Finding of Compliance	Yes.
§63.6(h)	Opacity/Visible Emission (VE) Standards	No. Subpart AAAAAAA does not contain opacity or VE standards.
§63.6(i)	Compliance Extension	Yes.
§63.6(j)	Presidential Compliance Exemption	Yes.
§63.7(a)-(d)	Performance Testing Requirements	Yes.
§63.7(e)(1)	Performance Testing Requirements	No. Subpart AAAAAAA specifies the conditions under which performance tests must be conducted.
§63.7(e)(2)-(4)	Conduct of Performance Tests and Data Reduction	Yes.
§63.7(f)-(h)		Yes.

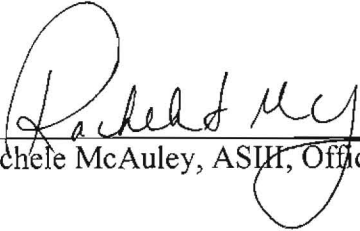
	Use of Alternative Test Method; Data Analysis, Recordkeeping, and Reporting; and Waiver of Performance Tests	
§63.8(a)(1)	Applicability of Monitoring Requirements	Yes.
§63.8(a)(2)	Performance Specifications	No. Subpart AAAAAAA does not allow CEMS.
§63.8(a)(3)	[Reserved]	
§63.8(a)(4)	Monitoring with Flares	Yes.
§63.8(b)(1)	Conduct of Monitoring	Yes.
§63.8(b)(2)-(3)	Multiple Effluents and Multiple Monitoring Systems	Yes.
§63.8(c)(1)	Monitoring System Operation and Maintenance	Yes.
§63.8(c)(1)(i)	CMS maintenance	Yes.
§63.8(c)(1)(ii)	Spare Parts for CMS Malfunction	Yes.
§63.8(c)(1)(iii)	Compliance with Operation and Maintenance Requirements	No. Subpart AAAAAAA does not require startup, shutdown, and malfunction plans.
§63.8(c)(2)-(3)	Monitoring System Installation	Yes.
§63.8(c)(4)	CMS Requirements	No; §63.11563 specifies the CMS requirements.
§63.8(c)(5)	COMS Minimum Procedures	No. Subpart AAAAAAA does not contain opacity or VE standards.
§63.8(c)(6)	CMS Requirements	No; §63.11563 specifies the CMS requirements.
§63.8(c)(7)-(8)	CMS Requirements	Yes.
§63.8(d)	CMS Quality Control	No; §63.11563 specifies the CMS requirements.
§63.8(e)-(f)	CMS Performance Evaluation	Yes.
§63.8(g)(1)-(4)	Data Reduction Requirements	Yes.
§63.8(g)(5)	Data to Exclude from Averaging	No. All monitoring data must be included when calculating averages.
§63.9	Notification Requirements	Yes.
§63.10(a)	Recordkeeping and Reporting Requirements—Applicability	Yes.
§63.10(b)(1)	General Recordkeeping Requirements	Yes.
§63.10(b)(2)(i)-(iii)	General Recordkeeping Requirements	Yes.
§63.10(b)(2)(iv)-(v)	Records of Actions Taken During Startup, Shutdown, and Malfunction Plans	No. Subpart AAAAAAA does not require startup, shutdown, and malfunction plans.
§63.10(b)(2)(vi)-(xiv)	General Recordkeeping Requirements	Yes.
§63.10(c)(1)-(14)	Additional Recordkeeping Requirements for Sources with Continuous Monitoring Systems	Yes.
§63.10(c)(15)	Additional Recordkeeping Requirements for Sources with Continuous Monitoring Systems	No. Subpart AAAAAAA does not require startup, shutdown, and malfunction plans.
§63.10(d)(1)-(4)	General Reporting Requirements	Yes.
§63.10(d)(5)	Periodic Startup, Shutdown, and Malfunction Reports	No. Subpart AAAAAAA does not require startup, shutdown, and malfunction plans.
§63.10(e)	Additional Reporting Requirements for Sources with Continuous Monitoring Systems	Yes.
§63.10(f)	Waiver of Recordkeeping or Reporting Requirements	Yes.
§63.11	Control Device and Work Practice Requirements	Yes.
§63.12	State Authority and Delegations	Yes.
§63.13	Addresses of State Air Pollution Control Agencies and EPA Regional Offices	Yes.
§63.14	Incorporations by Reference	Yes.
§63.15	Availability of Information and Confidentiality	Yes.
§63.16	Performance Track Provisions	No.

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CERTIFICATE OF SERVICE

I, Rachele McAuley, hereby certify that a copy of this permit has been mailed by first class mail to Bitec Inc., P. O. Box 497, Morrilton, AR, 72110, on this 7th day of May, 2017.



Rachele McAuley, ASIH, Office of Air Quality