NOTICE OF 30-DAY PERIOD
FOR PUBLIC COMMENT

Preliminary Findings Regarding a
Significant Revision to a
Federally Enforceable State Operating Permit (FESOP)

for Building Materials Manufacturing Corporation in Posey County

Significant Permit Revision No.: 129-41894-00011

The Indiana Department of Environmental Management (IDEM) has received an application from Building Materials Manufacturing Corporation, located at 901 Givens Rd, Mount Vernon, IN 47620, for a significant revision of its FESOP issued on November 5, 2018. If approved by IDEM’s Office of Air Quality (OAQ), this proposed revision would allow Building Materials Manufacturing Corporation to make certain changes at its existing source. Building Materials Manufacturing Corporation has applied to remove a blowing still and remove the capacity to use no. 6 fuel oil as an alternative in some fuel combustion units.

This draft permit does not contain any new equipment that would emit air pollutants; however, some conditions from previously issued permits/approvals have been corrected, changed, or removed. These corrections, changes, and removals may include Title I changes (e.g., changes that add or modify synthetic minor emission limits). This notice fulfills the public notice procedures to which those conditions are subject. IDEM has reviewed this application and has developed preliminary findings, consisting of a draft permit and several supporting documents, which would allow for these changes.

A copy of the permit application and IDEM’s preliminary findings are available at:

Alexandrian Public Library
115 W. 5th St
Mount Vernon, IN 47620

and

IDEM Southwest Regional Office
114 South 7th Street
P.O. Box 128
Petersburg, IN 47567-0128

A copy of the preliminary findings is available on the Internet at: http://www.in.gov/ai/appfiles/idem-caats/.

A copy of the preliminary findings is also available via IDEM’s Virtual File Cabinet (VFC.) Please go to: http://www.in.gov/idem/ and enter VFC in the search box. You will then have the option to search for permit documents using a variety of criteria.

How can you participate in this process?

The date that this notice is posted on IDEM’s website (https://www.in.gov/idem/5474.htm) marks the beginning of a 30-day public comment period. If the 30th day of the comment period falls on a day when IDEM offices are closed for business, all comments must be postmarked or delivered in person on the next business day that IDEM is open.
You may request that IDEM hold a public hearing about this draft permit. If adverse comments concerning the air pollution impact of this draft permit are received, with a request for a public hearing, IDEM will decide whether or not to hold a public hearing. IDEM could also decide to hold a public meeting instead of, or in addition to, a public hearing. If a public hearing or meeting is held, IDEM will make a separate announcement of the date, time, and location of that hearing or meeting. At a hearing, you would have an opportunity to submit written comments and make verbal comments. At a meeting, you would have an opportunity to submit written comments, ask questions, and discuss any air pollution concerns with IDEM staff.

Comments and supporting documentation, or a request for a public hearing should be sent in writing to IDEM at the address below. If you comment via e-mail, please include your full U.S. mailing address so that you can be added to IDEM’s mailing list to receive notice of future action related to this permit. If you do not want to comment at this time, but would like to receive notice of future action related to this permit application, please contact IDEM at the address below. Please refer to permit number SPR 129-41894-00011 in all correspondence.

Comments should be sent to:

Doug Logan  
IDEM, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
(800) 451-6027, ask for Doug Logan or (317) 234-5328  
Or dial directly: (317) 234-5328  
Fax: (317) 232-6749 attn: Doug Logan  
E-mail: dlogan@idem.IN.gov

All comments will be considered by IDEM when we make a decision to issue or deny the permit. Comments that are most likely to affect final permit decisions are those based on the rules and laws governing this permitting process (326 IAC 2), air quality issues, and technical issues. IDEM does not have legal authority to regulate zoning, odor, or noise. For such issues, please contact your local officials.

For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Air Permits page on the Internet at: [http://www.in.gov/idem/airquality/2356.htm](http://www.in.gov/idem/airquality/2356.htm); and the Citizens’ Guide to IDEM on the Internet at: [http://www.in.gov/idem/6900.htm](http://www.in.gov/idem/6900.htm).

What will happen after IDEM makes a decision?

Following the end of the public comment period, IDEM will issue a Notice of Decision stating whether the permit has been issued or denied. If the permit is issued, it may be different than the draft permit because of comments that were received during the public comment period. If comments are received during the public notice period, the final decision will include a document that summarizes the comments and IDEM’s response to those comments. If you have submitted comments or have asked to be added to the mailing list, you will receive a Notice of the Decision. The notice will provide details on how you may appeal IDEM’s decision, if you disagree with that decision. The final decision will also be available on the Internet at the address indicated above, at the local library indicated above, at the IDEM Regional Office indicated above, and the IDEM public file room on the 12th floor of the Indiana Government Center North, 100 N. Senate Avenue, Indianapolis, Indiana 46204-2251.
If you have any questions, please contact Doug Logan of my staff at the above address.

Brian Williams, Section Chief
Permits Branch
Office of Air Quality
Dear Mr. Mahrenholz:

Building Materials Manufacturing Corp. was issued a Federally Enforceable State Operating Permit (FESOP) Renewal No. F129-38119-00011, on November 5, 2018, for a stationary asphalt roofing manufacturing plant located at 901 Givens Rd., Mount Vernon, Indiana 47620. On September 6, 2019, the Office of Air Quality (OAQ) received an application from the source requesting to remove a blowing still and backup capacity for No. 6 fuel oil and adjust PSD and FESOP limits. Pursuant to the provisions of 326 IAC 2-8-11.1, these changes to the permit are required to be reviewed in accordance with the Significant Permit Revision (SPR) procedures of 326 IAC 2-8-11.1(f). Pursuant to the provisions of 326 IAC 2-8-11.1, a Significant Permit Revision to this permit is hereby approved as described in the attached Technical Support Document (TSD).

Pursuant to 326 IAC 2-8-11.1, the following emission units are approved for modification at the source:

- One (1) asphalt blowing operation, approved in 2019 for modification, with a bottlenecked capacity of 40,000 pounds of asphalt per hour, consisting of:
  1. One (1) blowstill, identified as BS1, constructed in 1972, with a maximum capacity of 40,000 pounds of asphalt per hour, with emissions controlled by one of two (2) afterburners (Boiler No. 1 or Boiler No. 2), exhausting though Stack S32.
  2. One (1) blowstill, identified as BS3, constructed in 2006, with a maximum capacity of 40,000 pounds of asphalt per hour, with emissions controlled by one of two (2) afterburners (Boiler No. 1 or Boiler No. 2), exhausting though Stack S32.

Under the NSPS, 40 CFR Part 60, Subpart UU, blowstill BS3 is an affected facility.

Only one (1) blowstill can operate at a time because there are only enough blowers installed to charge one at a time.

Under the NESHAP, 40 CFR 63, Subpart AAAAAA, the blowstills, BS1 and BS3, are part of an existing affected source.

- One (1) natural gas-fired combustion unit, identified as S36 flux heater, constructed in 1972, approved in 2019 for modification, with a maximum heat input capacity of 7.0 MMBtu/hr, exhausting through Stacks S35 and S36.

The following is a list of modified insignificant activities:

Re: 129-41894-00011
Significant Revision to
F129-38119-00011

Mr. Matthew Mahrenholz
Building Materials Manufacturing Corp.
901 Givens Road
Mount Vernon, Indiana 47620
Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour.

(1) One (1) natural gas-fired combustion unit, identified as mod-bit hot oil heater, permitted in 2006, approved in 2019 for modification, with a maximum heat input capacity of 5.2 MMBtu/hr, exhausting through Stack S2.

(2) One (1) natural gas-fired combustion unit, identified as filler heater hot oil heater, constructed in 1987, approved in 2019 for modification, with a maximum heat input capacity of 6.0 MMBtu/hr, exhausting through Stack S4.

As part of this permitting action, the following emission units and insignificant activities are being removed from the permit:

• One (1) asphalt blowing operation, consisting of:
  (1) One (1) blowstill, identified as BS2, constructed in 1972, with a maximum capacity of 40,000 pounds of asphalt per hour, with emissions controlled by one of two (2) afterburners (Boiler No. 1 or Boiler No. 2), exhausting through Stack S32.

• One (1) No. 6 fuel oil storage tank, identified as T-22, constructed in 1990 with a maximum storage capacity of 38,000 gallons.

• Emergency generators as follows: One (1) electric emergency fire pump with a maximum capacity of 200 HP, constructed in 1972.

The following construction conditions are applicable to the proposed project:

**General Construction Conditions**

1. The data and information supplied with the application shall be considered part of this permit revision approval. Prior to any proposed change in construction which may affect the potential to emit (PTE) of the proposed project, the change must be approved by the Office of Air Quality (OAQ).

2. This approval to construct does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

**Effective Date of the Permit**

3. Pursuant to IC 13-15-5-3, this approval becomes effective upon its issuance.

**Commenced Construction**

4. Pursuant to 326 IAC 2-1.1-9 (Revocation), the Commissioner may revoke this approval if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.

5. All requirements and conditions of this construction approval shall remain in effect unless modified in a manner consistent with procedures established pursuant to 326 IAC 2.

Pursuant to 326 IAC 2-8-11.1, this permit shall be revised by incorporating the Significant Permit Revision into the permit.

All other conditions of the permit shall remain unchanged and in effect. Please find attached the entire FESOP as revised. The permit references the below-listed attachment(s). Since these
attachments have been provided in previously issued approvals for this source, IDEM OAQ has not included a copy of these attachments with this revision:

Attachment A - Fugitive Dust Control Plan
Attachment A.1 - Fugitive Dust Control Plan Map
Attachment B - Standards of Performance for Asphalt Processing and Asphalt Roofing Manufacture [40 CFR 60, Subpart UU]
Attachment C - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines [40 CFR 60, Subpart IIII]
Attachment D - National Emission Standards for Hazardous Air Pollutants for Area Sources: Asphalt Processing and Asphalt Roofing Manufacturing [40 CFR 63, Subpart AAAAAA]
Attachment E - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines [40 CFR 63, Subpart ZZZZZ]
Attachment F - National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities [40 CFR 63, Subpart CCCCCC]

Previously issued approvals for this source containing these attachments are available on the Internet at: http://www.in.gov/ai/appfiles/idem-caats/

Previously issued approvals for this source are also available via IDEM’s Virtual File Cabinet (VFC.) Please go to: http://www.in.gov/idem/ and enter VFC in the search box. You will then have the option to search for permit documents using a variety of criteria.


A copy of the permit is available on the Internet at: http://www.in.gov/ai/appfiles/idem-caats/. A copy of the permit is also available via IDEM's Virtual File Cabinet (VFC.) Please go to: http://www.in.gov/idem/ and enter VFC in the search box. You will then have the option to search for permit documents using a variety of criteria. For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Air Permits page on the Internet at: http://www.in.gov/idem/airquality/2356.htm; and the Citizens’ Guide to IDEM on the Internet at: http://www.in.gov/idem/6900.htm.
This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5.

If you have any questions regarding this matter, please contact Doug Logan, Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251, or by telephone at (317) 234-5328 or (800) 451-6027, and ask for Doug Logan or (317) 234-5328.

Sincerely,

Brian Williams, Section Chief
Permits Branch
Office of Air Quality

Attachments: Revised permit and Technical Support Document.

cc: File - Posey County
Posey County Health Department
U.S. EPA, Region 5
Compliance and Enforcement Branch
IDEM Southwest Regional Office
Federally Enforceable State Operating Permit Renewal
OFFICE OF AIR QUALITY

Building Materials Manufacturing Corporation
901 Givens Road
Mount Vernon, Indiana 47620

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a FESOP under 326 IAC 2-8.
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Attachment E - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines [40 CFR 63, Subpart ZZZZZ]
Attachment F - National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities [40 CFR 63, Subpart CCCCCC]
SECTION A  SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1   General Information [326 IAC 2-8-3(b)]

The Permittee owns and operates a stationary asphalt roofing manufacturing plant.

<table>
<thead>
<tr>
<th>Source Address:</th>
<th>901 Givens Road, Mount Vernon, Indiana 47620</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Source Phone Number:</td>
<td>(813) 833-2309</td>
</tr>
<tr>
<td>SIC Code:</td>
<td>2952 (Asphalt Felts and Coatings)</td>
</tr>
<tr>
<td>County Location:</td>
<td>Posey</td>
</tr>
<tr>
<td>Source Location Status:</td>
<td>Attainment for all criteria pollutants</td>
</tr>
<tr>
<td>Source Status:</td>
<td>Federally Enforceable State Operating Permit Program</td>
</tr>
<tr>
<td></td>
<td>Minor Source, under PSD Rules</td>
</tr>
<tr>
<td></td>
<td>Minor Source, Section 112 of the Clean Air Act</td>
</tr>
<tr>
<td></td>
<td>Not 1 of 28 Source Categories</td>
</tr>
</tbody>
</table>

A.2   Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

This stationary source consists of the following emission units and pollution control devices:

(a) One (1) modified bitumen production line, with a maximum production rate of 13.5 tons per hour, constructed in 1986, with a mist collector for particulate control, exhausting through Stack S3, and consisting of the following:

(1) One (1) impregnator (saturator and coating tank).

Under the NSPS, 40 CFR 60, Subpart UU, the modified bitumen production line coater is an affected facility.

Under the NESHAP, 40 CFR 63, Subpart AAAAAAA, the modified bitumen production line coater is part of an existing affected source.

(2) One (1) dry felt looper.

(3) One (1) cooling section.

(4) One (1) granule application process, with a maximum capacity of 10.0 tons of roofing granules per hour, controlled by a dust collector.

(b) Storage and handling of bulk material operations, consisting of the following:

(1) One (1) truck unloading pit and associated underground conveyor, identified as modified bitumen / granules truck unloading, constructed in 1972, with a maximum capacity of 30.60 tons per hour, with emissions controlled by a baghouse (S29), and exhausting to stack S30.

(2) One (1) bucket elevator, identified as roofing granules incoming elevator, constructed in 1972, with a maximum capacity of 30.60 tons per hour, with emissions controlled by a baghouse (S29), and exhausting to stack S30. Only one of the twenty silos can be loaded at a time.
(3) Modified bitumen granules handling operation, constructed in 1986, with a maximum throughput of 10.0 tons per hour, and consisting of the following:

(A) Two (2) storage silos, identified as S27 and S28, with emissions controlled by a baghouse (S29), and exhausting to stack S30.

(B) One (1) totally enclosed pneumatic transport system, identified as modified bitumen / granules transport system, with emissions uncontrolled. Only one of the two silos can be unloaded at a time.

(C) One (1) storage bin, identified as S29, with emissions controlled by a baghouse, and exhausting to stack S30.

Under the NSPS, 40 CFR Part 60, Subpart UU, the modified bitumen granules handling operation is an affected facility.

(4) Shingle granules handling operation, constructed in 1972, with a maximum throughput of 30.60 tons per hour, and consisting of the following:

(A) Eighteen (18) storage silos, identified as 1-18, with emissions uncontrolled.

(B) One (1) conveyor belt, identified as blending conveyor, with emissions uncontrolled. Only one of the eighteenth silos can be unloaded at a time.

(C) One (1) storage bin, identified as use bin, with emissions uncontrolled.

(5) Shingle and modified bitumen filler (limestone) handling operations, constructed in 1986, with a maximum throughput of 32.00 tons per hour, and consisting of the following:

(A) Two (2) pneumatic truck unloading operation, identified as shingle unloading and bitumen unloading, with emissions uncontrolled.

(B) Two (2) storage silos, identified as S8 and S9, constructed in 1986, with emissions controlled by baghouse S10, and exhausting to stack S8 and S9.

(C) One (1) pneumatic transport system, identified as S10, with emissions controlled by a baghouse, and exhausting to stack S10. Only one of the two silos can be unloaded at a time.

(D) One (1) storage bin, identified as S11, with emissions controlled by a baghouse, and exhausting to stack S11.

Under the NSPS, 40 CFR Part 60, Subpart UU, the shingle and modified bitumen filler (limestone) handling operations are affected facilities.

(6) Talc handling operation, constructed in 1986, with a maximum throughput of 0.10 tons per hour, and consisting of the following:

(A) One (1) totally enclosed pneumatic truck unloading operation, identified as talc unloading, with emissions controlled by baghouse S25, and exhausting to stack S25.

(B) One (1) storage silo, identified as S25, with emissions controlled by baghouse S25, and exhausting to stack S25.

(C) One (1) pneumatic transport system, identified as S18, with emissions controlled by baghouse S18, and exhausting to stack S18.

(D) One (1) storage bin, identified as S18, with emissions controlled by baghouse S18, and exhausting to stack S18.

Under the NSPS, 40 CFR Part 60, Subpart UU, the talc handling operation is an affected facility.
(7) Shingle and modified bitumen sand handling operations, constructed in 1986, with a maximum throughput of 4.63 tons per hour, and consisting of the following:

A) One (1) pneumatic truck unloading operation, identified as sand unloading, with emissions controlled by baghouse S26, and exhausting to stack S26.

B) One (1) storage silo, identified as S26, with emissions controlled by baghouse S26, and exhausting to stack S26.

C) One (1) pneumatic transport system, identified as S17, with emissions controlled by baghouse S17, and exhausting to stack S17.

D) One (1) storage bin, identified as S17, with emissions controlled by baghouse S17, and exhausting to stack S17.

Under the NSPS, 40 CFR Part 60, Subpart UU, the shingle and modified bitumen sand handling operations are affected facilities.

(c) One (1) asphalt blowing operation, approved in 2019 for modification, with a bottlenecked capacity of 40,000 pounds of asphalt per hour, consisting of:

1) One (1) blowstill, identified as BS1, constructed in 1972, with a maximum capacity of 40,000 pounds of asphalt per hour, with emissions controlled by one of two (2) afterburners (Boiler No. 1 or Boiler No. 2), exhausting through Stack S32.

2) One (1) blowstill, identified as BS3, constructed in 2006, with a maximum capacity of 40,000 pounds of asphalt per hour, with emissions controlled by one of two (2) afterburners (Boiler No. 1 or Boiler No. 2), exhausting through Stack S32.

Under the NSPS, 40 CFR Part 60, Subpart UU, blowstill BS3 is an affected facility.

Only one (1) blowstill can operate at a time because there are only enough blowers installed to charge one at a time.

Under the NESHAP, 40 CFR 63, Subpart AAAAA, the blowstills, BS1 and BS3, are part of an existing affected source.

(d) One (1) shingles and rolls production line, constructed in 1972, with a maximum production rate of 75 tons per hour, with a mist collector for particulate control, exhausting through stacks S5 and S7, consisting of:

1) One (1) shingle coater dip pan, identified as S5.

Under the NESHAP, 40 CFR 63, Subpart AAAAAA, the shingle coater dip pan is an existing affected facility.

2) One (1) dry felt looper.

3) One (1) granule and sand application process, with a maximum capacity of 41.29 tons of sand and granules per hour, controlled by a dust collector, exhausting to stack S6.

4) One (1) self-seal application process, with a maximum capacity of 1.50 tons/hr.

5) One (1) cooling section.

6) One (1) finished product looper.

7) One (1) laminator, identified as S7 with a maximum capacity of 2,500 lbs/hr.
(8) One (1) shingle product cutting operation.
(9) One (1) shingle product packaging operation.

(e) One (1) natural gas-fired boiler, identified as boiler No. 1, with a maximum heat input capacity of 29.15 MMBtu/hr, constructed in 1972, and exhausting through stack S32. Boiler No. 1 serves as a backup boiler.

(f) One (1) natural gas-fired boiler, identified as boiler No. 2, with a maximum heat input capacity of 29.15 MMBtu/hr, constructed in 1972, and exhausting through stack S32. Boiler No. 2 serves as the primary unit.

(g) One (1) natural gas-fired combustion unit, identified as S36 flux heater, constructed in 1972, approved in 2019 for modification, with a maximum heat input capacity of 7.0 MMBtu/hr, exhausting through Stacks S35 and S36.

A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-8-3(c)(3)(I)]

This stationary source also includes the following insignificant activities:

(a) Space heaters, process heaters, heat treat furnaces, or boilers using the following fuels:

(1) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour.

(A) One (1) natural gas fired combustion unit, identified as coating heater, constructed in 1972, modification permitted in 2012, with a maximum heat input capacity of 4.5 MMBtu/hr, exhausting through Stack S34.

(B) One (1) natural gas-fired combustion unit, identified as mod-bit hot oil heater, permitted in 2006, approved in 2019 for modification, with a maximum heat input capacity of 5.2 MMBtu/hr, exhausting through Stack S2.

(C) One (1) natural gas-fired combustion unit, identified as filler heater hot oil heater, constructed in 1987, approved in 2019 for modification, with a maximum heat input capacity of 6.0 MMBtu/hr, exhausting through Stack S4.

(D) One (1) natural gas-fired combustion unit, identified as liquid asphalt storage heater, permitted in 2006, with a maximum heat input capacity of 3.0 MMBtu/hr, exhausting through Stack S1.

(E) One (1) natural gas-fired combustion unit, identified as thermal fluid heater, with a maximum heat input capacity of 5.0 MMBtu/hr, approved for construction in 2007.

(b) Two (2) storage tanks, identified as T-8 (self-seal asphalt) and T-16 (self-seal asphalt slate line), each constructed in 1989 and each with a maximum storage capacity of 14,000 gallons.

Under the NSPS, 40 CFR Part 60, Subpart UU, tanks T-8 and T-16 are affected facilities.

(c) Two (2) storage tanks, identified as T-20 (liquid APP plasticizer) and T-18 (holding tank package asphalt), constructed in 1986 and 1985, respectively, and each with a maximum storage capacity of 30,000 gallons.
Under the NSPS, 40 CFR Part 60, Subpart UU, tanks T-20 and T-18 are affected facilities.

(d) Activities associated with emergencies consisting of:

   (1) Emergency generators as follows:

      (A) One (1) diesel-fired emergency generator, identified as S-47, constructed in 2010, with a maximum rated capacity of 755 hp.

Under the NSPS, 40 CFR 60, Subpart IIII, emergency generator S-47 is an affected facility.

Under the NESHAP, 40 CFR 63, Subpart ZZZZ, emergency generator S-47 is a new affected source.

(2) Stationary fire pump engines as follows:

      (A) One (1) diesel-fired emergency fire pump, constructed in 1972, with a maximum capacity of 255 HP.

Under the NESHAP, 40 CFR 63, Subpart ZZZZ, the emergency fire pump is an existing affected source.

(e) A gasoline fuel transfer dispensing operation handling less than or equal to one thousand three hundred (1,300) gallons per day and filling storage tanks having a capacity equal to or less than ten thousand five hundred (10,500) gallons. This operation handles less than 10,000 gallons per month.

Under the NESHAP, 40 CFR 63, Subpart CCCCCC, the gasoline dispensing operation is an affected source.

(f) Degreasing operations that do not exceed one hundred forty-five (145) gallons per twelve (12) months, except if subject to 326 IAC 20-6.

A.4 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-8-3(c)(3)(I)]

This stationary source also includes the following insignificant activities:

(a) Space heaters, process heaters, heat treat furnaces, or boilers using the following fuels:

   (1) Propane or liquefied petroleum gas or butane-fired combustion sources with heat input equal to or less than six million (6,000,000) British thermal units per hour.

      (A) One (1) propane fired combustion unit, identified as flame bar, permitted in 2003, with a maximum heat input capacity of 1.0 MMBtu/hr.

(b) One (1) storage tank, identified M-5 (mod-bit mixed material-hold tank), each constructed in 1985 and with maximum storage capacities of 6,500 gallons.

(c) One (1) bulk asphalt flux main storage tank, identified as T-1, constructed in 1972 and with a maximum storage capacity of 1,000,000 gallons of asphalt.

(d) Five (5) storage tanks, identified as T-3 (flux preheat tank), T-4 (SBS/AC-5/weather watch), T-5 (AC-5 asphalt), T-6 (coating asphalt) and T-7 (coating asphalt), each
constructed in 1972 and each with a maximum storage capacity of 30,000 gallons of asphalt.

(e) One (1) storage tank, identified as T-9 (steep asphalt), constructed in 1977, with a maximum storage capacity of 8,000 gallons.

(f) Reserved.

(g) A day tank for the storage of laminating adhesive, permitted in 2003, with a storage capacity of 1200 gallons, with emissions below exemption levels in 326 IAC 2-1.1-3(d)(1).

(h) A petroleum fuel other than gasoline dispensing facility, having a storage tank capacity less than or equal to ten thousand five hundred (10,500) gallons, and dispensing three thousand five hundred (3,500) gallons per day or less, permitted in 2003.

(i) Water related activities including:

1. Production of hot water for on-site personal use not related to any industrial or production process;
2. Steam traps, vents, leaks and safety relief valves;
3. Laundry operations using only water solutions of bleach or detergents; and
4. Boiler water treatment operations, not including cooling towers.

(p) Combustion activities including the following:

1. Combustion emissions from propulsion of mobile sources;
2. Tobacco smoking rooms and areas; and
3. Indoor and outdoor kerosene heaters.

(j) Ventilation and venting related equipment including the following:

1. Ventilation exhaust, central chiller water systems, refrigeration and air conditioning equipment, not related to any industrial or production process, including natural draft hoods or ventilating systems that do not remove air pollutants;
2. Stack and vents from plumbing traps used to prevent the discharge of sewer gases, handling domestic sewage only, excluding those at wastewater treatment plants or those handling any industrial waste; and
3. Air vents from air compressors.

(k) Activities related to routine fabrication, maintenance and repair of buildings, structures, equipment or vehicles at the source where air emissions from those activities would not be associated with any commercial production process including the following:

1. Non-asbestos insulation installation or removal.

(l) Housekeeping and janitorial activities and supplies including the following:

1. Rest rooms and associated cleanup operations and supplies; and
(2) Mobile floor sweepers and floor scrubbers.

(m) Office related activities including the following:

(1) Office supplies and equipment;
(2) Photocopying equipment and associated supplies; and
(3) Paper shredding.

(n) Lawn care and landscape maintenance activities and equipment, including the storage, spraying or application of insecticides, pesticides and herbicides.

(o) Storage equipment and activities including:

(1) Pressurized storage tanks and associated piping for the following:
   (A) Acetylene;
   (B) Liquid natural gas (LNG) (propane); and
   (C) Liquid petroleum gas (LPG).
(2) Storage tanks, vessels, and containers holding or storing liquid substances that do not contain any VOCs or HAPs;
(3) Storage tanks, reservoirs, and pumping and handling equipment of any size containing soap, wax, vegetable oil, grease, animal fat, and nonvolatile aqueous salt solutions, provided appropriate lids and covers are utilized; and
(4) Storage of drums containing maintenance raw materials.

(p) Emergency and standby equipment including:

(1) Safety and emergency equipment, except engine driven fire pumps, including fire suppression systems and emergency road flares; and
(2) Process safety relief devices installed solely for the purpose of minimizing injury to persons or damage to equipment which could result from abnormal process operating conditions, including the following: Safety relief valves.

(q) Use of consumer products and equipment where the product or equipment is used at a source in the same manner as normal consumer use and is not associated with any production process.

(r) Activities associated with production including the following:

(1) Application equipment for hot melt adhesives with no VOC in the adhesive formulation;
(2) Air compressors and pneumatically operated equipment, including hand tools; and
(3) Compressor or pump lubrication and seal oil systems.
(s) Miscellaneous equipment, but not emissions associated with the process for which the equipment is used, and activities including the following:

(1) Manual loading and unloading operations.

(t) The following VOC and HAP storage containers:

(1) Storage tanks with capacity less than or equal to 1,000 gallons and annual throughputs less than 12,000 gallons; and

(2) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids.

(u) Noncontact cooling tower systems with either of the following:

(1) Natural draft cooling towers not regulated under a NESHAP, constructed in 1997, with a maximum capacity of 403 tons.

(v) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.

(w) Heat exchanger cleaning and repair.

(x) Process vessel degassing and cleaning to prepare for internal repairs.

(y) Blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower.

A.5 FESOP Applicability [326 IAC 2-8-2]

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) to renew a Federally Enforceable State Operating Permit (FESOP).
SECTION B   GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-8-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-7) shall prevail.

B.2 Permit Term [326 IAC 2-8-4(2)] [326 IAC 2-1.1-9.5] [IC 13-15-3-6(a)]

(a) This permit, F129-38119-00011, is issued for a fixed term of ten (10) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.

(b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

B.3 Term of Conditions [326 IAC 2-1.1-9.5]

Notwithstanding the permit term of a permit to construct, a permit to operate, or a permit modification, any condition established in a permit issued pursuant to a permitting program approved in the state implementation plan shall remain in effect until:

(a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or

(b) the emission unit to which the condition pertains permanently ceases operation.

B.4 Enforceability [326 IAC 2-8-6] [IC 13-17-12]

Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

B.5 Severability [326 IAC 2-8-4(4)]

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

B.6 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]

This permit does not convey any property rights of any sort or any exclusive privilege.

B.7 Duty to Provide Information [326 IAC 2-8-4(5)(E)]

(a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.

(b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.8 Certification [326 IAC 2-8-3(d)] [326 IAC 2-8-4(3)(C)(i)] [326 IAC 2-8-5(1)]

(a) A certification required by this permit meets the requirements of 326 IAC 2-8-5(a)(1) if:
(1) it contains a certification by an "authorized individual", as defined by 326 IAC 2-1.1-1(1), and

(2) the certification states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

(b) The Permittee may use the attached Certification Form, or its equivalent with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.

(c) An "authorized individual" is defined at 326 IAC 2-1.1-1(1).

B.9 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

(a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than July 1 of each year to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

(b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

(c) The annual compliance certification report shall include the following:

(1) The appropriate identification of each term or condition of this permit that is the basis of the certification;

(2) The compliance status;

(3) Whether compliance was continuous or intermittent;

(4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and

(5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ may require to determine the compliance status of the source.

The submittal by the Permittee does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

B.10 Compliance Order Issuance [326 IAC 2-8-5(b)]

IDEM, OAQ may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.
B.11 Preventive Maintenance Plan

(a) A Preventive Maintenance Plan (PMP) meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:

1. Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
2. A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
3. Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

The Permittee shall implement the PMPs.

(b) If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain PMPs no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:

1. Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
2. A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
3. Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If, due to circumstances beyond the Permittee’s control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

The PMP extension notification does not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

The Permittee shall implement the PMPs.

(c) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions. The PMPs and their submittal do not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(d) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.
B.12 Emergency Provisions [326 IAC 2-8-12]

(a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation except as provided in 326 IAC 2-8-12.

(b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:

1. An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;

2. The permitted facility was at the time being properly operated;

3. During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;

4. For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ or Southwest Regional Office within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

   Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance and Enforcement Branch), or
   Telephone Number: 317-233-0178 (ask for Office of Air Quality, Compliance and Enforcement Branch)
   Facsimile Number: 317-233-6865
   Southwest Regional Office phone: (812) 380-2305; fax: (812) 380-2304.

5. For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

   Indiana Department of Environmental Management
   Compliance and Enforcement Branch, Office of Air Quality
   100 North Senate Avenue
   MC 61-53 IGCN 1003
   Indianapolis, Indiana 46204-2251

   within two (2) working days of the time when emission limitations were exceeded due to the emergency.

   The notice fulfills the requirement of 326 IAC 2-8-4(3)(C)(ii) and must contain the following:

   (A) A description of the emergency;

   (B) Any steps taken to mitigate the emissions; and

   (C) Corrective actions taken.
The notification which shall be submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(6) The Permittee immediately took all reasonable steps to correct the emergency.

(c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.

(d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.

(e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.

(f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.

(g) Operations may continue during an emergency only if the following conditions are met:

(1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

(2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:

(A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and

(B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5]

(a) All terms and conditions of permits established prior to F129-38119-00011 and issued pursuant to permitting programs approved into the state implementation plan have been either:

(1) incorporated as originally stated,

(2) revised, or

(3) deleted.
(b) All previous registrations and permits are superseded by this permit.

B.14 Termination of Right to Operate [326 IAC 2-8-9] [326 IAC 2-8-3(h)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-8-3(h) and 326 IAC 2-8-9.

B.15 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-8-4(5)(C)] [326 IAC 2-8-7(a)] [326 IAC 2-8-8]

(a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Federally Enforceable State Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:

(1) That this permit contains a material mistake.

(2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.

(3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]

(c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]

(d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

B.16 Permit Renewal [326 IAC 2-8-3(h)]

(a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(42). The renewal application does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
(b) A timely renewal application is one that is:

1. Submitted at least nine (9) months prior to the date of the expiration of this permit; and

2. If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

(c) If the Permittee submits a timely and complete application for renewal of this permit, the source’s failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified, pursuant to 326 IAC 2-8-3(g), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.17 Permit Amendment or Revision [326 IAC 2-8-10] [326 IAC 2-8-11.1]

(a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.

(b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

Any such application does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.18 Operational Flexibility [326 IAC 2-8-15] [326 IAC 2-8-11.1]

(a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-8-15(b) and (c) without a prior permit revision, if each of the following conditions is met:

1. The changes are not modifications under any provision of Title I of the Clean Air Act;

2. Any approval required by 326 IAC 2-8-11.1 has been obtained;

3. The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);

4. The Permittee notifies the:
in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

(5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-8-15(b)(1) and (c). The Permittee shall make such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ in the notices specified in 326 IAC 2-8-15(b)(1) and (c).

(b) Emission Trades [326 IAC 2-8-15(b)]
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(b).

(c) Alternative Operating Scenarios [326 IAC 2-8-15(c)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7). No prior notification of IDEM, OAQ or U.S. EPA is required.

(d) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.19 Source Modification Requirement [326 IAC 2-8-11.1]
A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2.

B.20 Inspection and Entry [326 IAC 2-8-5(a)(2)] [IC 13-14-2-2] [IC 13-17-3-2] [IC 13-30-3-1]
Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

(a) Enter upon the Permittee's premises where a FESOP source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
(b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

(c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

(d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and

(e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.21 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

(a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.

(b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

Any such application does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.22 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16] [326 IAC 2-1.1-7]

(a) The Permittee shall pay annual fees to IDEM, OAQ no later than thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.

(b) Failure to pay may result in administrative enforcement action or revocation of this permit.

(c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.23 Credible Evidence [326 IAC 2-8-4(3)] [326 IAC 2-8-5] [62 FR 8314] [326 IAC 1-1-6]

For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to
whether the Permittee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.
SECTION C  SOURCE OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards [326 IAC 2-8-4(1)]

C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour.

C.2 Overall Source Limit [326 IAC 2-8]

The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

(a) Pursuant to 326 IAC 2-8:

(1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one hundred (100) tons per twelve (12) consecutive month period.

(2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and

(3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

(b) Pursuant to 326 IAC 2-2 (PSD), potential to emit particulate matter (PM) from the entire source shall be limited to less than two hundred fifty (250) tons per twelve (12) consecutive month period.

(c) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided that the source's potential to emit does not exceed the above specified limits.

(d) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

C.3 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-1 (Applicability) and 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

(a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

(b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A,
Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor in a six (6) hour period.

C.4 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.

C.5 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

The Permittee shall not operate an incinerator except as provided in 326 IAC 4-2 or in this permit. The Permittee shall not operate a refuse incinerator or refuse burning equipment except as provided in 326 IAC 9-1-2 or in this permit.

C.6 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions).

C.7 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the attached plan as in Attachment A.

C.8 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted by using ambient air quality modeling pursuant to 326 IAC 1-7-4.

C.9 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

(a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

(b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:

(1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or

(2) If there is a change in the following:

(A) Asbestos removal or demolition start date;

(B) Removal or demolition contractor; or

(C) Waste disposal site.

(c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
(d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(e) Procedures for Asbestos Emission Control
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.

(f) Demolition and Renovation
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).

(g) Indiana Licensed Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos.

Testing Requirements [326 IAC 2-8-4(3)]

C.10 Performance Testing [326 IAC 3-6]

(a) For performance testing required by this permit, a test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

### Compliance Requirements [326 IAC 2-1.1-11]

<table>
<thead>
<tr>
<th>C.11 Compliance Requirements [326 IAC 2-1.1-11]</th>
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<tbody>
<tr>
<td>The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.</td>
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### Compliance Monitoring Requirements [326 IAC 2-8-4(1)] [326 IAC 2-8-5(a)(1)]

<table>
<thead>
<tr>
<th>C.12 Compliance Monitoring [326 IAC 2-8-4(3)] [326 IAC 2-8-5(a)(1)]</th>
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<tbody>
<tr>
<td>(a) For new units: Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units shall be implemented on and after the date of initial start-up.</td>
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<tr>
<td>(b) For existing units: Unless otherwise specified in this permit, for all monitoring requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance to begin such monitoring. If, due to circumstances beyond the Permittee's control, any monitoring equipment required by this permit cannot be installed and operated no later than ninety (90) days after permit issuance, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:</td>
</tr>
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Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date.

The notification which shall be submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

### Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)] [326 IAC 2-8-5(1)]

<table>
<thead>
<tr>
<th>C.13 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)] [326 IAC 2-8-5(1)]</th>
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<tbody>
<tr>
<td>(a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale. The analog instrument shall be capable of measuring values outside of the normal range.</td>
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<tr>
<td>(b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.</td>
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Corrective Actions and Response Steps [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

C.14 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

(a) The Permittee shall maintain the most recently submitted written emergency reduction plans (ERPs) consistent with safe operating procedures.

(b) Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.15 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68]

If a regulated substance, as defined in 40 CFR 68, is present at a source in more than a threshold quantity, the Permittee must comply with the applicable requirements of 40 CFR 68.

C.16 Response to Excursions or Exceedances [326 IAC 2-8-4] [326 IAC 2-8-5]

Upon detecting an excursion where a response step is required by the D Section or an exceedance of a limitation in this permit:

(a) The Permittee shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.

(b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:

(1) initial inspection and evaluation;

(2) recording that operations returned or are returning to normal without operator action (such as through response by a computerized distribution control system); or

(3) any necessary follow-up actions to return operation to normal or usual manner of operation.

(c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:

(1) monitoring results;

(2) review of operation and maintenance procedures and records; and/or

(3) inspection of the control device, associated capture system, and the process.

(d) Failure to take reasonable response steps shall be considered a deviation from the permit.

(e) The Permittee shall record the reasonable response steps taken.
C.17 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4] [326 IAC 2-8-5]

(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall submit a description of its response actions to IDEM, OAQ no later than seventy-five (75) days after the date of the test.

(b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) days is not practicable, IDEM, OAQ may extend the retesting deadline.

(c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

C.18 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

(a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. Support information includes the following, where applicable:

   (AA) All calibration and maintenance records.
   (BB) All original strip chart recordings for continuous monitoring instrumentation.
   (CC) Copies of all reports required by the FESOP.

Records of required monitoring information include the following, where applicable:

   (AA) The date, place, as defined in this permit, and time of sampling or measurements.
   (BB) The dates analyses were performed.
   (CC) The company or entity that performed the analyses.
   (DD) The analytical techniques or methods used.
   (EE) The results of such analyses.
   (FF) The operating conditions as existing at the time of sampling or measurement.

These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

(b) Unless otherwise specified in this permit, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.

C.19 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

(a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Proper notice submittal under Section B -Emergency Provisions satisfies the reporting requirements of this paragraph. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported except that a deviation required to be reported pursuant to
an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. This report shall be submitted not later than thirty (30) days after the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

(b) The address for report submittal is:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

(c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

(d) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit “calendar year” means the twelve (12) month period from January 1 to December 31 inclusive.

**Stratospheric Ozone Protection**

C.20 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with applicable standards for recycling and emissions reduction.
SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(a) One (1) modified bitumen production line, with a maximum production rate of 13.5 tons per hour, constructed in 1986, with a mist collector for particulate control, exhausting through Stack S3, and consisting of the following:

(1) One (1) impregnator (saturator and coating tank).

Under the NSPS, 40 CFR 60, Subpart UU, the modified bitumen production line coater is an affected facility.

Under the NESHAP, 40 CFR 63, Subpart AAAAAAA, the modified bitumen production line coater is part of an existing affected source.

(2) One (1) dry felt looper.

(3) One (1) cooling section.

(4) One (1) granule application process, with a maximum capacity of 10.0 tons of roofing granules per hour, controlled by a dust collector.

(b) Storage and handling of bulk material operations, consisting of the following:

(1) One (1) truck unloading pit and associated underground conveyor, identified as modified bitumen / granules truck unloading, constructed in 1972, with a maximum capacity of 30.60 tons per hour, with emissions controlled by a baghouse (S29), and exhausting to stack S30.

(2) One (1) bucket elevator, identified as roofing granules incoming elevator, constructed in 1972, with a maximum capacity of 30.60 tons per hour, with emissions controlled by a baghouse (S29), and exhausting to stack S30. Only one of the twenty silos can be loaded at a time.

(3) Modified bitumen granules handling operation, constructed in 1986, with a maximum throughput of 10.0 tons per hour, and consisting of the following:

(A) Two (2) storage silos, identified as S27 and S28, with emissions controlled by a baghouse (S29), and exhausting to stack S30.

(B) One (1) totally enclosed pneumatic transport system, identified as modified bitumen / granules transport system, with emissions uncontrolled. Only one of the two silos can be unloaded at a time.

(C) One (1) storage bin, identified as 29, with emissions controlled by a baghouse, and exhausting to stack S30.

Under the NSPS, 40 CFR Part 60, Subpart UU, the modified bitumen granules handling operation is an affected facility.

(4) Shingle granules handling operation, constructed in 1972, with a maximum throughput of 30.60 tons per hour, and consisting of the following:

(A) Eighteen (18) storage silos, identified as 1-18, with emissions uncontrolled.

(B) One (1) conveyor belt, identified as blending conveyor, with emissions uncontrolled. Only one of the eighteenth silos can be unloaded at a time.

(C) One (1) storage bin, identified as use bin, with emissions uncontrolled.
(5) Shingle and modified bitumen filler (limestone) handling operations, constructed in 1986, with a maximum throughput of 32.00 tons per hour, and consisting of the following:

(A) Two (2) pneumatic truck unloading operation, identified as shingle unloading and bitumen unloading, with emissions uncontrolled.
(B) Two (2) storage silos, identified as S8 and S9, with emissions controlled by baghouse S10, and exhausting to stack S8 and S9.
(C) One (1) pneumatic transport system, identified as S10, with emissions controlled by a baghouse, and exhausting to stack S10. Only one of the two silos can be unloaded at a time.
(D) One (1) storage bin, identified as S11, with emissions controlled by a baghouse, and exhausting to stack S11.

Under the NSPS, 40 CFR Part 60, Subpart UU, the shingle and modified bitumen filler (limestone) handling operations are affected facilities.

(6) Talc handling operation, constructed in 1986, with a maximum throughput of 0.10 tons per hour, and consisting of the following:

(A) One (1) totally enclosed pneumatic truck unloading operation, identified as talc unloading, with emissions controlled by baghouse S25, and exhausting to stack S25.
(B) One (1) storage silo, identified as S25, with emissions controlled by baghouse S25, and exhausting to stack S25.
(C) One (1) pneumatic transport system, identified as S18, with emissions controlled by baghouse S18, and exhausting to stack S18.
(D) One (1) storage bin, identified as S18, with emissions controlled by baghouse S18, and exhausting to stack S18.

Under the NSPS, 40 CFR Part 60, Subpart UU, the talc handling operation is an affected facility.

(7) Shingle and modified bitumen sand handling operations, constructed in 1986, with a maximum throughput of 4.63 tons per hour, and consisting of the following:

(A) One (1) pneumatic truck unloading operation, identified as sand unloading, with emissions controlled by baghouse S26, and exhausting to stack S26.
(B) One (1) storage silo, identified as S26, with emissions controlled by baghouse S26, and exhausting to stack S26.
(C) One (1) pneumatic transport system, identified as S17, with emissions controlled by baghouse S17, and exhausting to stack S17.
(D) One (1) storage bin, identified as S17, with emissions controlled by baghouse S17, and exhausting to stack S17.

Under the NSPS, 40 CFR Part 60, Subpart UU, the shingle and modified bitumen sand handling operations are affected facilities.

[Under 40 CFR Part 60, Subpart UU, this is considered an affected facility.]

(c) One (1) asphalt blowing operation, approved in 2019 for modification, with a bottlenecked capacity of 40,000 pounds of asphalt per hour, consisting of:
One (1) blowstill, identified as BS1, constructed in 1972, with a maximum capacity of 40,000 pounds of asphalt per hour, with emissions controlled by one of two (2) afterburners (Boiler No. 1 or Boiler No. 2), exhausting though Stack S32.

One (1) blowstill, identified as BS3, constructed in 2006, with a maximum capacity of 40,000 pounds of asphalt per hour, with emissions controlled by one of two (2) afterburners (Boiler No. 1 or Boiler No. 2), exhausting though Stack S32.

Under the NSPS, 40 CFR Part 60, Subpart UU, blowstill BS3 is an affected facility.

Only one (1) blowstill can operate at a time because there are only enough blowers installed to charge one at a time.

Under the NESHAP, 40 CFR 63, Subpart AAAAA, the blowstills, BS1 and BS3, are part of an existing affected source.

(d) One (1) shingles and rolls production line, constructed in 1972, with a maximum production rate of 75 tons per hour, with a mist collector for particulate control, exhausting through stacks S5 and S7, consisting of:

1. One (1) shingle coater dip pan, identified as S5.
   Under the NESHAP, 40 CFR 63, Subpart AAAAAA, the shingle coater dip pan is an existing affected facility.

2. One (1) dry felt looper.

3. One (1) granule and sand application process, with a maximum capacity of 41.29 tons of sand and granules per hour, controlled by a dust collector, exhausting to stack S6.

4. One (1) self-seal application process, with a maximum capacity of 1.50 tons/hr.

5. One (1) cooling section.

6. One (1) finished product looper.

7. One (1) laminator, identified as S7 with a maximum capacity of 2,500 lbs/hr.

8. One (1) shingle product cutting operation.

9. One (1) shingle product packaging operation.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

**Emission Limitations and Standards [326 IAC 2-8-4(1)]**

**D.1.1 VOC BACT [326 IAC 8-1-6]**

Pursuant to 326 IAC 8-1-6, the Permittee shall comply with the following:

(a) VOC emissions from the blowstill BS3 shall be controlled by a boiler at all times the blowstill is in operation and generating VOC emissions.

(b) The boiler shall have a total THC destruction efficiency of at least 90%.

(c) VOC emissions from the blowstill BS3 shall not exceed 0.170 lb VOC/ton asphalt blown.

(d) Asphalt throughput shall not exceed 175,200 tons per twelve (12) consecutive month period with compliance determined at the end of each month.
D.1.2 PSD Minor Limits [326 IAC 2-2]

In order to render the requirements of 326 IAC 2-2 (PSD) not applicable, the Permittee shall comply with the following:

(a) The shingle and modified bitumen filler handling operations shall be limited as follows:

<table>
<thead>
<tr>
<th>Emission Unit(s)</th>
<th>Stack ID</th>
<th>PM Limit (lb/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silo S8</td>
<td>S8</td>
<td>0.24</td>
</tr>
<tr>
<td>Silo S9</td>
<td>S9</td>
<td>0.24</td>
</tr>
<tr>
<td>Pneumatic Transport</td>
<td>S10</td>
<td>0.24</td>
</tr>
<tr>
<td>System S10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bin S11</td>
<td>S11</td>
<td>0.24</td>
</tr>
</tbody>
</table>

(b) The asphalt blowing operation shall be limited as follows:

(1) The asphalt throughput for blowstills BS1 and BS3 shall not exceed 90,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

(2) The total blowstill BS1 and BS3 emissions shall be limited as follows:

<table>
<thead>
<tr>
<th>Emission Units</th>
<th>PM Limit (lb/ton of asphalt)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BS1 and BS3</td>
<td>0.30</td>
</tr>
</tbody>
</table>

Compliance with these limits, combined with PTE from other emission units, shall limit the total source-wide PM emissions to less than 250 tons per twelve (12) consecutive month period and render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

D.1.3 FESOP and PSD Minor Limits [326 IAC 2-8-4] [326 IAC 2-2] Pursuant to 326 IAC 2-8-4 (FESOP) and in order to render the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-7 (Part 70 Permits) not applicable, the Permittee shall comply with the following:

(a) The modified bitumen roofing production line shall be limited as follows:

(1) PM$_{10}$ emissions from the modified bitumen roofing coater shall not exceed 0.12 pounds per ton of roofing produced.

(2) PM$_{2.5}$ emissions from the modified bitumen roofing coater shall not exceed 0.12 pounds per ton of roofing produced.

(3) PM$_{10}$ emissions from the modified bitumen roofing granule application process shall not exceed 0.015 pounds per ton of roofing produced.

(4) PM$_{2.5}$ emissions from the modified bitumen roofing granule application process shall not exceed 0.015 pounds per ton of roofing produced.

(b) The shingle and modified bitumen filler handling operations shall be limited as follows:

<table>
<thead>
<tr>
<th>Emission Unit(s)</th>
<th>Stack ID</th>
<th>PM$_{10}$ Limit (lb/hr)</th>
<th>PM$_{2.5}$ Limit (lb/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silo S8</td>
<td>S8</td>
<td>0.15</td>
<td>0.15</td>
</tr>
</tbody>
</table>
## Emission Limitations

<table>
<thead>
<tr>
<th>Emission Unit(s)</th>
<th>Stack ID</th>
<th>PM\textsubscript{10} Limit (lb/hr)</th>
<th>PM\textsubscript{2.5} Limit (lb/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silo S9</td>
<td>S9</td>
<td>0.15</td>
<td>0.15</td>
</tr>
<tr>
<td>Pneumatic Transport</td>
<td>S10</td>
<td>0.15</td>
<td>0.15</td>
</tr>
<tr>
<td>System S10</td>
<td>S11</td>
<td>0.15</td>
<td>0.15</td>
</tr>
<tr>
<td>Bin S11</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(c) The asphalt blowing operation shall be limited as follows:

1. The asphalt throughput for blowstills BS1 and BS3 shall not exceed 90,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

2. The total blowstill BS1 and BS3 emissions shall be limited as follows:

<table>
<thead>
<tr>
<th>Emission Units</th>
<th>PM\textsubscript{10} (lb/ton)</th>
<th>PM\textsubscript{2.5} (lb/ton)</th>
<th>VOC (lb/ton)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BS1 and BS3</td>
<td>0.30</td>
<td>0.30</td>
<td>0.17</td>
</tr>
</tbody>
</table>

(d) The shingle and roll roofing production line shall be limited as follows:

1. The asphalt throughput for the shingle and roll roofing production line shall not exceed 110,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

2. PM\textsubscript{10} emissions from the shingle and roll roofing coater shall not exceed 0.12 pounds per ton of roofing produced.

3. PM\textsubscript{2.5} emissions from the shingle and roll roofing coater shall not exceed 0.12 pounds per ton of roofing produced.

4. PM\textsubscript{10} emissions from the shingle and roll roofing granule application process shall not exceed 0.015 pounds per ton of roofing produced.

5. PM\textsubscript{2.5} emissions from the shingle and roll roofing granule application process shall not exceed 0.015 pounds per ton of roofing produced.

Compliance with these limits, combined with the potential to emit PM\textsubscript{10}, PM\textsubscript{2.5}, and VOC from all other emission units at this source, shall limit the source-wide total potential to emit of PM\textsubscript{10}, PM\textsubscript{2.5}, and VOC to less than one-hundred (100) tons per twelve (12) consecutive month period, each, and shall render the requirements of 326 IAC 2-7 (Part 70 Permits) and 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

### D.1.4 Hazardous Air Pollutants (HAP) Limitations

Pursuant to 326 IAC 2-8-4 (FESOP), and in order to render the source an area source of HAP emissions under Section 112 of the Clean Air Act (CAA), and render the requirements of 326 IAC 2-7 (Part 70 Permits) not applicable, the Permittee shall comply with the following:

(a) The asphalt blowing operation shall be limited as follows:

1. The throughput for blowstills BS1 and BS3 shall not exceed 90,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.
(2) Ethylbenzene emissions from the asphalt blowing process shall not exceed 0.0065 lb/ton of asphalt.

(b) The shingle and roll roofing coater shall be limited as follows

(1) The maximum throughput for the shingle and roll roofing production line shall not exceed 110,000 tons of asphalt per twelve (12) consecutive month period with compliance determined at the end of each month.

(2) n-Hexane emissions shall not exceed 0.082 pounds per ton of asphalt.

Compliance with these limits, combined with the potential to emit HAP from all other emission units at this source, shall limit the source-wide potential to emit each single HAP to less than 10 tons per twelve (12) consecutive month period and the source-wide potential to emit combined HAPs to less than 25 tons per twelve (12) consecutive month period, and shall render the source an area source of HAP emissions under Section 112 of the Clean Air Act (CAA) and shall render the requirements of 326 IAC 2-7 (Part 70 Permits) not applicable.

D.1.5 Particulate Emission Limitations [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), particulate emissions rate from the following operations shall not exceed the pound per hour limit (E) when operating at the associated process weight rate as listed in the table below:

<table>
<thead>
<tr>
<th>Process Description</th>
<th>Process Weight Rate (tons/hr)</th>
<th>E 326 IAC 6-3-2 Limit (lbs/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>modified bitumen production line</td>
<td>13.5 (total)</td>
<td>23.45</td>
</tr>
<tr>
<td>modified bitumen / granules truck unloading</td>
<td>30.60</td>
<td>40.13</td>
</tr>
<tr>
<td>roofing granules incoming elevator</td>
<td>30.60</td>
<td>40.13</td>
</tr>
<tr>
<td>Silos S27, S28</td>
<td>10 (each)</td>
<td>19.18 (each)</td>
</tr>
<tr>
<td>modified bitumen / granules transport system &amp; S29</td>
<td>10</td>
<td>19.18 (total)</td>
</tr>
<tr>
<td>Silos 1-18</td>
<td>30.60 (each)</td>
<td>40.13 (each)</td>
</tr>
<tr>
<td>blending conveyor &amp; use bin</td>
<td>30.60</td>
<td>40.13 (total)</td>
</tr>
<tr>
<td>shingle unloading and bitumen unloading</td>
<td>32.00 (each)</td>
<td>40.52 (each)</td>
</tr>
<tr>
<td>Silos S8, S9</td>
<td>32.00 (each)</td>
<td>40.52 (each)</td>
</tr>
<tr>
<td>S10 &amp; S11</td>
<td>32.00 (total)</td>
<td>40.52 (total)</td>
</tr>
<tr>
<td>blowstill 1</td>
<td>20</td>
<td>30.51</td>
</tr>
<tr>
<td>blowstill 2</td>
<td>20</td>
<td>30.51</td>
</tr>
</tbody>
</table>

D.1.6 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan is required for these facilities and any control devices. Section B - Preventive Maintenance Plan contains the Permittee’s obligation with regard to the preventive maintenance plan required by this condition.

Compliance Determination Requirements [326 IAC 2-8-4(1)]

D.1.7 Particulate Control

(a) In order to assure compliance with Conditions D.1.2(a) and D.1.3(b), the baghouses for particulate control shall be in operation and control emissions from the storage silos S8 and S9, pneumatic transport system S10, and storage bin S11 at all times the storage silos S8 and S9, pneumatic transport system S10, and storage bin S11 are in operation.
In order to assure compliance with Condition D.1.3(a)(1) and (2), the mist collector for particulate control shall be in operation and control emissions from the modified bitumen roofing line coater at all times the modified bitumen roofing line coater is in operation.

In order to assure compliance with Condition D.1.3(a)(3) and (4), the dust collector for particulate control shall be in operation and control emissions from the modified bitumen roofing granule application process at all times the modified bitumen roofing granule application process is in operation.

In order to assure compliance with Condition D.1.3(d)(1) and (2), the mist collector for particulate control shall be in operation and control emissions from the shingle and roll roofing line coater at all times the shingle and roll roofing line coater is in operation.

In order to assure compliance with Condition D.1.3(d)(3) and (4), the dust collector for particulate control shall be in operation and control emissions from the shingle and roll roofing granule application process at all times the shingle and roll roofing granule application process is in operation.

In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

D.1.8 Asphalt Blowing Process Emissions Control

In order to assure compliance with Conditions D.1.1, D.1.2(b), D.1.3(c), and D.1.4, the boiler (Boiler 1 of Boiler 2) for particulate, VOC, CO, and HAP control shall be in operation and control emissions from the asphalt blowing process at all times the asphalt blowing process is in operation.

D.1.9 Testing Requirements [326 IAC 2-1.1-11]

(a) In order to demonstrate compliance with Conditions D.1.2(b)(2) and D.1.3(c)(2), the Permittee shall perform PM, PM$_{10}$, and PM$_{2.5}$ testing of Boiler 2, controlling the asphalt blowing operation (BS1 and BS3) utilizing methods as approved by the Commissioner at least once every five (5) years from the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Testing shall be performed using the particulate source (blowstill) that was not used in the most recent test that demonstrated compliance with the limits in Condition D.1.2(b)(2) and/or Condition D.1.3(c)(2). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition. PM$_{10}$ and PM$_{2.5}$ includes filterable and condensable PM.

(b) Not later than 180 days after the startup of Boiler 1 as a control device for the asphalt blowing process (BS1 and/or BS3), and to assure compliance with Conditions D.1.2(b)(2) and D.1.3(c)(2), the Permittee shall perform PM, PM$_{10}$, and PM$_{2.5}$ testing of Boiler 1 controlling the asphalt blowing operation BS1 and BS3 utilizing methods approved by the commissioner at least once every five (5) years from the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Testing shall be performed using the particulate source (blowstill) that was not used in the most recent test that demonstrated compliance with the limits in Condition D.1.2(b)(2) and/or Condition D.1.3(c)(2). Section C - Performance Testing contains the Permittee's obligation with regard to the
performance testing required by this condition. PM\textsubscript{10} and PM\textsubscript{2.5} includes filterable and condensable PM.

(c) Not later than 180 days after the issuance date of this permit, Permit No F129-38119-00011, and to assure compliance with Conditions D.1.2(a) and D.1.3(b), the Permittee shall perform PM, PM\textsubscript{10}, and PM\textsubscript{2.5} testing of the storage bin S11 utilizing methods approved by the commissioner at least once every five (5) years from the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition. PM\textsubscript{10} and PM\textsubscript{2.5} includes filterable and condensable PM.

(d) To assure compliance with Conditions D.1.1 and D.1.3(c)(2), the Permittee shall perform VOC testing of Boiler 2, controlling the asphalt blowing operation (BS1 and BS3), utilizing methods approved by the commissioner at least once every five (5) years from the date of the most recent valid compliance demonstration. VOC testing shall include emission rate and overall control efficiency. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Testing shall be performed using the VOC source (blowstill) that was not used in the most recent test that demonstrated compliance with the limits in Condition D.1.1 and/or Condition D.1.3(c). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.

(e) Not later than 180 days after the startup of Boiler 1 as a control device for the asphalt blowing process (BS1 and/or BS3), and to assure compliance with Conditions D.1.1 and D.1.3(c)(2), the Permittee shall perform VOC testing of Boiler 1 controlling the asphalt blowing operation BS1 and BS3 utilizing methods approved by the commissioner at least once every five (5) years from the date of the most recent valid compliance demonstration. VOC testing shall include emission rate and overall control efficiency. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Testing shall be performed using the VOC source (blowstill) that was not used in the most recent test that demonstrated compliance with the limits in Condition D.1.1 and/or Condition D.1.3(c). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.

(f) Not later than 180 days after a stack test of a boiler (Boiler 1 or 2) controlling emissions from the asphalt blowing process (BS1 or BS3) with a VOC result greater than or equal to 0.005 lb/ton of asphalt, and to assure compliance with Condition D.1.4(a)(2), the Permittee shall perform ethylbenzene testing of a boiler (Boiler 1 or 2) controlling emissions from the asphalt blowing operation (BS1 or BS3) utilizing methods approved by the commissioner. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.

(g) Not later than 180 days after the issuance date of this permit, Permit No 129-41984-00011, and to assure compliance with Condition D.1.3(a)(1) and (2), the Permittee shall perform PM\textsubscript{10} and PM\textsubscript{2.5} testing of the modified bitumen roofing coater utilizing methods approved by the commissioner at least once every five (5) years from the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C – Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.
(h) Not later than 180 days after the issuance date of this permit, Permit No 129-41984-00011, and to assure compliance with Condition D.1.3(a)(3) and (4), the Permittee shall perform PM_{10} and PM_{2.5} testing of the modified bitumen granule application process utilizing methods approved by the commissioner at least once every five (5) years from the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C – Performance Testing contains the Permittee’s obligation with regard to the performance testing required by this condition.

(i) Not later than 180 days after the issuance date of this permit, Permit No 129-41984-00011, and to assure compliance with Condition D.1.3(d)(1) and (2), the Permittee shall perform PM_{10} and PM_{2.5} testing of the shingle and roll roofing coater utilizing methods approved by the commissioner at least once every five (5) years from the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C – Performance Testing contains the Permittee’s obligation with regard to the performance testing required by this condition.

(j) Not later than 180 days after the issuance date of this permit, Permit No 129-41984-00011, and to assure compliance with Condition D.1.3(d)(3) and (4), the Permittee shall perform PM_{10} and PM_{2.5} testing of the shingle and roll roofing granule application process utilizing methods approved by the commissioner at least once every five (5) years from the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C – Performance Testing contains the Permittee’s obligation with regard to the performance testing required by this condition.

(k) Not later than 180 days after the issuance date of this permit, Permit No 129-41894-00011, and to assure compliance with Condition D.1.4(b)(2) the Permittee shall perform n-hexane testing of the shingle and roll roofing coater utilizing methods approved by the commissioner at least once every five (5) years from the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C – Performance Testing contains the Permittee’s obligation with regard to the performance testing required by this condition.

Compliance Monitoring Requirements [326 IAC 2-8-4(1)] [326 IAC 2-8-5(a)(1)]

D.1.10 Visible Emissions Notations

(a) Visible emission notations of the S8, S9, S10, S11, and S32 exhausts shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

(b) Visible emission notations of the boiler controlling emissions from the asphalt blowing process stack shall be performed once per day during normal daylight operations while the asphalt blowing process is in operation. A trained employee shall record whether emissions are normal or abnormal.

(c) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(d) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
(e) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(f) If abnormal emissions are observed, the Permittee shall take a reasonable response. Section C - Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

D.1.11 Boiler Temperature

(a) A continuous monitoring system shall be calibrated, maintained, and operated on Boiler 1 and Boiler 2 for measuring operating temperature when controlling emissions from the asphalt blowing process. For the purpose of this condition, continuous means no less often than once per fifteen (15) minutes. The output of this system shall be recorded as 3-hour average.

(b) The Permittee shall determine the 3-hour average temperature from the latest valid stack test that demonstrates compliance with limits in Conditions D.1.1 and D.1.3(c).

(c) On and after the date the stack test results are available, the Permittee shall operate the boilers at or above the 3-hour average temperature as observed during the latest compliant stack test.

(d) If the 3-hour average temperature falls below the above mentioned 3-hour average temperature, the Permittee shall take a reasonable response. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A 3-hour average temperature reading below the above mentioned 3-hour average temperature is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

D.1.12 Broken or Failed Bag Detection

(a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

(b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

D.1.13 Record Keeping Requirements

(a) To document the compliance status with Condition D.1.1(d), the Permittee shall maintain monthly records of the throughput for blowstill BS3.
(b) To document the compliance status with Conditions D.1.2(b), D.1.3(c)(1), and D.1.4(a)(1), the Permittee shall maintain monthly records of the throughput for blowstills BS1 and BS3.

(c) To document the compliance status with Conditions D.1.3(d)(1) and D.1.4(b)(1), the Permittee shall maintain monthly records of the throughput for shingles and rolls production line.

(d) To document the compliance status with Condition D.1.10, the Permittee shall maintain records of daily visible emission notations of the stack exhausts. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).

(e) To document the compliance status with Condition D.1.11, the Permittee shall maintain continuous temperature records for Boiler 1 or Boiler 2 while the asphalt blowing process is in operation and the 3-hour average temperature used to demonstrate compliance during the most recent compliant stack test.

(f) Section C - General Record Keeping Requirements contains the Permittee's obligation with regard to the records required by this condition.

**D.1.14 Reporting Requirements**

A quarterly summary of the information to document the compliance status with Conditions D.1.1 (d), D.1.2(b) and D1.3(d)(1) shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
SECTION D.2  EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(e) One (1) natural gas-fired boiler, identified as boiler No. 1, with a maximum heat input capacity of 29.15 MMBtu/hr, constructed in 1972, and exhausting through stack S32. Boiler No. 1 serves as a backup boiler.

(f) One (1) natural gas-fired boiler, identified as boiler No. 2, with a maximum heat input capacity of 29.15 MMBtu/hr, constructed in 1972, and exhausting through stack S32. Boiler No. 2 serves as the primary unit.

(g) One (1) natural gas-fired combustion unit, identified as S36 flux heater, constructed in 1972, approved in 2019 for modification, with a maximum heat input capacity of 7.0 MMBtu/hr, exhausting through Stacks S35 and S36.

Insignificant Activities:

(a) Space heaters, process heaters, heat treat furnaces, or boilers using the following fuels:

(1) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour.

(A) One (1) natural gas-fired combustion unit, identified as coating heater, constructed in 1972, modification permitted in 2012, with a maximum heat input capacity of 4.5 MMBtu/hr, exhausting through Stack S34.

(B) One (1) natural gas-fired combustion unit, identified as mod-bit hot oil heater, permitted in 2006, approved in 2019 for modification, with a maximum heat input capacity of 5.2 MMBtu/hr, exhausting through Stack S2.

(C) One (1) natural gas-fired combustion unit, identified as filler heater hot oil heater, constructed in 1987, approved in 2019 for modification, with a maximum heat input capacity of 6.0 MMBtu/hr, exhausting through Stack S4.

(D) One (1) natural gas-fired combustion unit, identified as liquid asphalt storage heater, permitted in 2006, with a maximum heat input capacity of 3.0 MMBtu/hr, exhausting through Stack S1.

(E) One (1) natural gas-fired combustion unit, identified as thermal fluid heater, with a maximum heat input capacity of 5.0 MMBtu/hr, approved for construction in 2007.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.2.1 Particulate [326 IAC 6-2-3]

Pursuant to 326 IAC 6-2-3 (Particulate Emission Limitations for Sources of Indirect Heating), the PM emissions from the following units shall be limited to Pt pounds per MMBtu heat input, as follows:
D.2.2 Particulate [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating), the PM emissions from the following units shall be limited to Pt pounds per MMBtu heat input, as follows:

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Pt (lb/MMBtu)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mod-bit hot oil heater</td>
<td>0.34</td>
</tr>
<tr>
<td>Filler heater</td>
<td>0.33</td>
</tr>
<tr>
<td>Liquid asphalt storage heater</td>
<td>0.33</td>
</tr>
<tr>
<td>Thermal fluid heater</td>
<td>0.33</td>
</tr>
</tbody>
</table>

D.2.3 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan is required for these facilities and any control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.
SECTION D.3  EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

Insignificant Activities:

(f) Degreasing operations that do not exceed one hundred forty-five (145) gallons per twelve (12) months, except if subject to 326 IAC 20-6.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.3.1 Cold Cleaner Degreaser Control Equipment and Operating Requirements [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Degreaser Control Equipment and Operating Requirements), the Permittee shall:

(a) Ensure the following control equipment and operating requirements are met:

(1) Equip the degreaser with a cover.

(2) Equip the degreaser with a device for draining cleaned parts.

(3) Close the degreaser cover whenever parts are not being handled in the degreaser.

(4) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;

(5) Provide a permanent, conspicuous label that lists the operating requirements in subdivisions (3), (4), (6), and (7).

(6) Store waste solvent only in closed containers.

(7) Prohibit the disposal or transfer of waste solvent in such a manner that could allow greater than twenty percent (20%) of the waste solvent (by weight) to evaporate into the atmosphere.

(b) Ensure the following additional control equipment and operating requirements are met:

(1) Equip the degreaser with one (1) of the following control devices if the solvent is heated to a temperature of greater than forty-eight and nine-tenths (48.9) degrees Celsius (one hundred twenty (120) degrees Fahrenheit):

(A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.

(B) A water cover when solvent used is insoluble in, and heavier than, water.

(C) A refrigerated chiller.

(D) Carbon adsorption.

(E) An alternative system of demonstrated equivalent or better control as those outlined in clauses (A) through (D) that is approved by the department. An alternative system shall be submitted to the U.S. EPA as a SIP revision.
(2) Ensure the degreaser cover is designed so that it can be easily operated with one (1) hand if the solvent is agitated or heated.

(3) If used, solvent spray:
   (A) must be a solid, fluid stream; and
   (B) shall be applied at a pressure that does not cause excessive splashing.

D.3.2 Material Requirements for Cold Cleaner Degreasers [326 IAC 8-3-8]

Pursuant to 326 IAC 8-3-8 (Material Requirements for Cold Cleaner Degreasers), the Permittee shall not operate a cold cleaning degreaser with a solvent that has a VOC composite partial vapor pressure that exceeds one (1) millimeter of mercury (nineteen-thousandths (0.019) pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

D.3.3 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan is required for this facility and its associated control device. Section B - Preventive Maintenance Plan contains the Permittee’s obligation with regard to the preventive maintenance plan required by this condition.

Record Keeping and Reporting Requirement [326 IAC 2-8-4(3)]

D.3.4 Record Keeping Requirements

(a) To document the compliance status with Condition D.3.2, the Permittee shall maintain the following records for each purchase of solvent used in the cold cleaner degreasing operations. These records shall be retained on-site or accessible electronically for the most recent three (3) year period and shall be reasonably accessible for an additional two (2) year period.

(1) The name and address of the solvent supplier.

(2) The date of purchase (or invoice/bill dates of contract servicer indicating service date).

(3) The type of solvent purchased.

(4) The total volume of the solvent purchased.

(5) The true vapor pressure of the solvent measured in millimeters of mercury at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

(b) Section C - General Record Keeping Requirements contains the Permittee’s obligations with regard to the records required by this condition.
SECTION E.1  NSPS

Emissions Unit Description:

(a) One (1) modified bitumen production line, with a maximum production rate of 13.5 tons per hour, constructed in 1986, with a mist collector for particulate control, exhausting through Stack S3, and consisting of the following:

(1) One (1) impregnator (saturator and coating tank).

Under the NSPS, 40 CFR 60, Subpart UU, the modified bitumen production line coater is an affected facility.

Under the NESHAP, 40 CFR 63, Subpart AAAAAA, the modified bitumen production line coater is part of an existing affected source.

(2) One (1) dry felt looper.

(3) One (1) cooling section.

(4) One (1) granule application process, with a maximum capacity of 10.0 tons of roofing granules per hour, controlled by a dust collector.

(b) Storage and handling of bulk material operations, consisting of the following:

(3) Modified bitumen granules handling operation, constructed in 1986, with a maximum throughput of 10.0 tons per hour, and consisting of the following:

(A) Two (2) storage silos, identified as S27 and S28, with emissions controlled by a baghouse (S29), and exhausting to stack S30.

(B) One (1) totally enclosed pneumatic transport system, identified as modified bitumen / granules transport system, with emissions uncontrolled. Only one of the two silos can be unloaded at a time.

(C) One (1) storage bin, identified as 29, with emissions controlled by a baghouse, and exhausting to stack S30.

Under the NSPS, 40 CFR Part 60, Subpart UU, the modified bitumen granules handling operation is an affected facility.

(5) Shingle and modified bitumen filler (limestone) handling operations, constructed in 1986, with a maximum throughput of 32.00 tons per hour, and consisting of the following:

(A) Two (2) pneumatic truck unloading operation, identified as shingle unloading and bitumen unloading, with emissions uncontrolled.

(B) Two (2) storage silos, identified as S8 and S9, with emissions controlled by baghouse S10, and exhausting to stack S8 and S9.

(C) One (1) pneumatic transport system, identified as S10, with emissions controlled by a baghouse, and exhausting to stack S10. Only one of the two silos can be unloaded at a time.

(D) One (1) storage bin, identified as S11, with emissions controlled by a baghouse, and exhausting to stack S11.

Under the NSPS, 40 CFR Part 60, Subpart UU, the shingle and modified bitumen filler (limestone) handling operations are affected facilities.
(6) Talc handling operation, constructed in 1986, with a maximum throughput of 0.10 tons per hour, and consisting of the following:

(A) One (1) totally enclosed pneumatic truck unloading operation, identified as talc unloading, with emissions controlled by baghouse S25, and exhausting to stack S25.

(B) One (1) storage silo, identified as S25, with emissions controlled by baghouse S25, and exhausting to stack S25.

(C) One (1) pneumatic transport system, identified as S18, with emissions controlled by baghouse S18, and exhausting to stack S18.

(D) One (1) storage bin, identified as S18, with emissions controlled by baghouse S18, and exhausting to stack S18.

Under the NSPS, 40 CFR Part 60, Subpart UU, the shingle and modified bitumen filler (limestone) handling operations are affected facilities.

(7) Shingle and modified bitumen sand handling operations, constructed in 1986, with a maximum throughput of 4.63 tons per hour, and consisting of the following:

(A) One (1) pneumatic truck unloading operation, identified as sand unloading, with emissions controlled by baghouse S26, and exhausting to stack S26.

(B) One (1) storage silo, identified as S26, with emissions controlled by baghouse S26, and exhausting to stack S26.

(C) One (1) pneumatic transport system, identified as S17, with emissions controlled by baghouse S17, and exhausting to stack S17.

(D) One (1) storage bin, identified as S17, with emissions controlled by baghouse S17, and exhausting to stack S17.

Under the NSPS, 40 CFR Part 60, Subpart UU, the shingle and modified bitumen sand handling operations are affected facilities.

(c) One (1) asphalt blowing operation, approved in 2019 for modification, with a bottlenecked capacity of 40,000 pounds of asphalt per hour, consisting of:

(1) One (1) blowstill, identified as BS1, constructed in 1972, with a maximum capacity of 40,000 pounds of asphalt per hour, with emissions controlled by one of two (2) afterburners (Boiler No. 1 or Boiler No. 2), exhausting though Stack S32.

(2) One (1) blowstill, identified as BS3, constructed in 2006, with a maximum capacity of 40,000 pounds of asphalt per hour, with emissions controlled by one of two (2) afterburners (Boiler No. 1 or Boiler No. 2), exhausting though Stack S32.

Under the NSPS, 40 CFR Part 60, Subpart UU, blowstill BS3 is an affected facility.

Only one (1) blowstill can operate at a time because there are only enough blowers installed to charge one at a time.

Under the NESHAP, 40 CFR 63, Subpart AAAAA, the blowstills, BS1 and BS3, are part of an existing affected source.

Insignificant Activities:

(b) Two (2) storage tanks, identified as T-8 (self-seal asphalt) and T-16 (self-seal asphalt slate line), each constructed in 1989 and each with a maximum storage capacity of 14,000 gallons.
Under the NSPS, 40 CFR Part 60, Subpart UU, tanks T-8 and T-16 are affected facilities.

(c) Two (2) storage tanks, identified as T-20 (liquid APP plasticizer) and T-18 (holding tank package asphalt), constructed in 1986 and 1985, respectively, and each with a maximum storage capacity of 30,000 gallons.

Under the NSPS, 40 CFR Part 60, Subpart UU, tanks T-20 and T-18 are affected facilities.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

New Source Performance Standards (NSPS) Requirements [326 IAC 2-8-4(1)]

E.1.1 General Provisions Relating to New Source Performance Standards [326 IAC 12-1] [40 CFR Part 60, Subpart A]

(a) Pursuant to 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated by reference as 326 IAC 12-1, for the emission unit(s) listed above, except as otherwise specified in 40 CFR Part 60, Subpart UU.

(b) Pursuant to 40 CFR 60.4, the Permittee shall submit all required notifications and reports to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana  46204-2251

E.1.2 Asphalt Processing and Asphalt Roofing Manufacture NSPS [326 IAC 12] [40 CFR Part 60, Subpart UU]

The Permittee shall comply with the following provisions of 40 CFR Part 60, Subpart UU (included as Attachment B to the operating permit), which are incorporated by reference as 326 IAC 12, for the emission unit(s) listed above:

(1) 40 CFR 60.470
(2) 40 CFR 60.471
(3) 40 CFR 60.472
(4) 40 CFR 60.473 (b), (d)
(5) 40 CFR 60.474 (a)(1-2), (b), (c), (d), (e), (f), (g)

Emission Limitations and Standards [326 IAC 2-8-4(1)]

E.1.3 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan is required for T-8, T-16, T-18, and T-20. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.
Compliance Determination Requirements [326 IAC 2-8-4(1)]

E.1.4 Testing Requirements [326 IAC 2-1.1-11] [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

In order to demonstrate compliance with Condition E.1.2, the Permittee shall perform the testing required under 40 CFR 60, Subpart UU, excluding opacity testing for mineral handling and storage facilities, utilizing methods as approved by the Commissioner, at least once every five (5) years from the date of the most recent valid compliance demonstration. Section C - Performance Testing contains the Permittee’s obligation with regard to the performance testing required by this condition.
SECTION E.2   NSPS

Emissions Unit Description:

Insignificant Activities:

(d) Activities associated with emergencies consisting of:

(1) Emergency generators as follows:

   (A) One (1) diesel-fired emergency generator, identified as S-47, with a maximum rated capacity of 755 hp, constructed in 2010.

Under the NSPS, 40 CFR 60, Subpart III, emergency generator S-47 is an affected facility.

Under the NESHAP, 40 CFR 63, Subpart ZZZZ, emergency generator S-47 is a new affected source.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

New Source Performance Standards (NSPS) Requirements [326 IAC 2-8-4(1)]]

E.2.1 General Provisions Relating to New Source Performance Standards [326 IAC 12-1] [40 CFR Part 60, Subpart A]

(a) Pursuant to 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated by reference as 326 IAC 12-1, for the emission unit(s) listed above, except as otherwise specified in 40 CFR Part 60, Subpart III.

(b) Pursuant to 40 CFR 60.4, the Permittee shall submit all required notifications and reports to:

   Indiana Department of Environmental Management
   Compliance and Enforcement Branch, Office of Air Quality
   100 North Senate Avenue
   MC 61-53 IGCN 1003
   Indianapolis, Indiana  46204-2251

E.2.2 Stationary Compression Ignition Internal Combustion Engines NSPS [326 IAC 12] [40 CFR Part 60, Subpart III]

The Permittee shall comply with the following provisions of 40 CFR Part 60, Subpart III (included as Attachment C to the operating permit), which are incorporated by reference as 326 IAC 12, for the emission unit(s) listed above:

(1) 40 CFR 60.4200 (a)(2)(i), (a)(4), (c)
(2) 40 CFR 60.4205 (b)
(3) 40 CFR 60.4206
(4) 40 CFR 60.4207 (a), (b)
(5) 40 CFR 60.4208
(6) 40 CFR 60.4209 (a)
(7) 40 CFR 60.4211 (a), (c), (f)(1), (f)(2)(i), (g)(3)
(8) 40 CFR 60.4212
(9) 40 CFR 60.4218
(10) 40 CFR 60.4219
(11) Table 1
(12) Table 8
Emissions Unit Description:

(a) One (1) modified bitumen production line, with a maximum production rate of 13.5 tons per hour, constructed in 1986, with a mist collector for particulate control, exhausting through Stack S3, and consisting of the following:

(1) One (1) impregnator (saturator and coating tank).

Under the NSPS, 40 CFR 60, Subpart UU, the modified bitumen production line coater is an affected facility.

Under the NESHAP, 40 CFR 63, Subpart AAAAAA, the modified bitumen production line coater is part of an existing affected source.

(2) One (1) dry felt looper.

(3) One (1) cooling section.

(4) One (1) granule application process, with a maximum capacity of 10.0 tons of roofing granules per hour, controlled by a dust collector.

(b) One (1) asphalt blowing operation, approved in 2019 for modification, with a bottlenecked capacity of 40,000 pounds of asphalt per hour, consisting of:

(1) One (1) blowstill, identified as BS1, constructed in 1972, with a maximum capacity of 40,000 pounds of asphalt per hour, with emissions controlled by one of two (2) afterburners (Boiler No. 1 or Boiler No. 2), exhausting though Stack S32.

(2) One (1) blowstill, identified as BS3, constructed in 2006, with a maximum capacity of 40,000 pounds of asphalt per hour, with emissions controlled by one of two (2) afterburners (Boiler No. 1 or Boiler No. 2), exhausting through Stack S32.

Under the NSPS, 40 CFR Part 60, Subpart UU, blowstill BS3 is an affected facility.

Only one (1) blowstill can operate at a time because there are only enough blowers installed to charge one at a time.

Under the NESHAP, 40 CFR 63, Subpart AAAAAA, the blowstills, BS1 and BS3, are part of an existing affected source.

(d) One (1) shingles and rolls production line, constructed in 1972, with a maximum production rate of 75 tons per hour, with a mist collector for particulate control, exhausting through stacks S5 and S7, consisting of:

(1) One (1) shingle coater dip pan, identified as S5.

Under the NESHAP, 40 CFR 63, Subpart AAAAAA, the shingle coater dip pan is an existing affected facility.

(2) One (1) dry felt looper.

(3) One (1) granule and sand application process, with a maximum capacity of 41.29 tons of sand and granules per hour, controlled by a dust collector, exhausting to stack S6.

(4) One (1) self-seal application process, with a maximum capacity of 1.50 tons/hr.

(5) One (1) cooling section.
(6) One (1) finished product looper.
(7) One (1) laminator, identified as S7 with a maximum capacity of 2,500 lbs/hr.
(8) One (1) shingle product cutting operation.
(9) One (1) shingle product packaging operation.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements [326 IAC 2-8-4(1)]


(a) Pursuant to 40 CFR 63.1 the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A - General Provisions, which are incorporated by reference as 326 IAC 20-1, for the emission unit(s) listed above, except as otherwise specified in 40 CFR Part 63, Subpart AAAAAAA.

(b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

E.3.2 Area Sources: Asphalt Processing and Asphalt Roofing Manufacturing NESHAP [40 CFR Part 63, Subpart AAAAAAA]

The Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart AAAAAAA (included as Attachment D to the operating permit), for the emission unit(s) listed above:

(1) 40 CFR 63.11559 (a), (b), (f), (h)
(2) 40 CFR 63.11560 (a)
(3) 40 CFR 63.11561 (b), (c)
(4) 40 CFR 63.11562 (c-g), (i)
(5) 40 CFR 63.11563 (a), (g-i)
(6) 40 CFR 63.11564 (a)(1), (a)(2), (a)(4-6), (b), (c)
(7) 40 CFR 63.11565
(8) 40 CFR 63.11566
(9) 40 CFR 63.11567
(10) Table 1
(11) Table 2
(12) Table 3
(13) Table 4
(14) Table 5

Compliance Determination Requirements [326 IAC 2-8-4(1)]

E.3.3 Testing Requirements [326 IAC 2-1.1-11] [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

In order to with Condition E.4.2, the Permittee shall perform the testing required under 40 CFR 63, Subpart AAAAAAA, utilizing methods as approved by the Commissioner, at least once every five (5) years from the date of the most recent valid compliance demonstration. Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.
SECTION E.4  NESHAP

Emissions Unit Description:

Insignificant Activities:

(d) Activities associated with emergencies consisting of:

   (1) Emergency generators as follows:

      (A) One (1) diesel-fired emergency generator, identified as S-47, constructed in 2010, with a maximum rated capacity of 755 hp.

      Under the NSPS, 40 CFR 60, Subpart IIII, emergency generator S-47 is an affected facility.

      Under the NESHAP, 40 CFR 63, Subpart ZZZZ, emergency generator S-47 is a new affected source.

   (2) Stationary fire pump engines as follows:

      (A) One (1) diesel-fired emergency fire pump, constructed in 1972, with a maximum capacity of 255 HP.

      Under the NESHAP, 40 CFR 63, Subpart ZZZZ, the emergency fire pump is an existing affected source.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements [326 IAC 2-8-4(1)]


(a) Pursuant to 40 CFR 63.1 the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A - General Provisions, which are incorporated by reference as 326 IAC 20-1, for the emission unit(s) listed above, except as otherwise specified in 40 CFR Part 63, Subpart ZZZZ.

(b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports to:

   Indiana Department of Environmental Management
   Compliance and Enforcement Branch, Office of Air Quality
   100 North Senate Avenue
   MC 61-53 IGCN 1003
   Indianapolis, Indiana 46204-2251

E.4.2 Stationary Reciprocating Internal Combustion Engines NESHAP [40 CFR Part 63, Subpart ZZZZ] [326 IAC 20-82]

The Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart ZZZZ (included as Attachment E to the operating permit), which are incorporated by reference as 326 IAC 20-82, for the emission unit(s) listed above:
Emission Limitations and Standards [326 IAC 2-8-4(1)]

E.4.3 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan is required for these facilities. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.
SECTION E.5  

NESHAP

Emissions Unit Description:

Insignificant Activities:

(e) A gasoline fuel transfer dispensing operation handling less than or equal to one thousand three hundred (1,300) gallons per day and filling storage tanks having a capacity equal to or less than ten thousand five hundred (10,500) gallons, permitted in 2003. This operation handles less than 10,000 gallons per month.

Under the NESHAP, 40 CFR 63, Subpart CCCCCC, the gasoline dispensing operation is an affected source.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements [326 IAC 2-8-4(1)]


(a) Pursuant to 40 CFR 63.1 the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A - General Provisions, which are incorporated by reference as 326 IAC 20-1, for the emission unit(s) listed above, except as otherwise specified in 40 CFR Part 63, Subpart CCCCCC.

(b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

E.5.2 Source Category: Gasoline Dispensing Facilities NESHAP [40 CFR Part 63, Subpart CCCCCC]

The Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart CCCCCC (included as Attachment G to the operating permit), for the emission unit(s) listed above:

(1) 40 CFR 63.11110
(2) 40 CFR 63.11111 (a), (b), (e), (f), (h), (i), (j)
(3) 40 CFR 63.11112 (a), (b)
(4) 40 CFR 63.11113 (a)(1)
(5) 40 CFR 63.11115
(6) 40 CFR 63.11116
(7) 40 CFR 63.11125 (d)
(8) 40 CFR 63.11126 (b)
(9) 40 CFR 63.11130
(10) 40 CFR 63.11131
(11) 40 CFR 63.11132
(12) Table 3
Emission Limitations and Standards [326 IAC 2-8-4(1)]

E.5.3 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan is required for these facilities. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.
Source Name: Building Materials Manufacturing Corporation
Source Address: 901 Givens Road, Mount Vernon, Indiana 47620
FESOP Permit No.: F129-38119-00011

This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.

Please check what document is being certified:

☐ Annual Compliance Certification Letter
☐ Test Result (specify)___________________________________________________
☐ Report (specify)_______________________________________________________
☐ Notification (specify)__________________________________________________
☐ Affidavit (specify)____________________________________________________
☐ Other (specify)_______________________________________________________

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature: ____________________________________________________________

Printed Name: ________________________________________________________

Title/Position: ________________________________________________________

Date: ________________
### FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) EMERGENCY OCCURRENCE REPORT

**Source Name:** Building Materials Manufacturing Corporation  
**Source Address:** 901 Givens Road, Mount Vernon, Indiana 47620  
**FESOP Permit No.:** F129-38119-00011  

This form consists of 2 pages  

<table>
<thead>
<tr>
<th>□ This is an emergency as defined in 326 IAC 2-7-1(12)</th>
</tr>
</thead>
<tbody>
<tr>
<td>- The Permittee must notify the Office of Air Quality (OAQ), within four (4) daytime business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and</td>
</tr>
<tr>
<td>- The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-8-12</td>
</tr>
</tbody>
</table>

If any of the following are not applicable, mark N/A

<table>
<thead>
<tr>
<th>Facility/Equipment/Operation:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control Equipment:</td>
</tr>
<tr>
<td>Permit Condition or Operation Limitation in Permit:</td>
</tr>
<tr>
<td>Description of the Emergency:</td>
</tr>
<tr>
<td>Describe the cause of the Emergency:</td>
</tr>
</tbody>
</table>
If any of the following are not applicable, mark N/A

<table>
<thead>
<tr>
<th>Date/Time Emergency started:</th>
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</thead>
<tbody>
<tr>
<td>Date/Time Emergency was corrected:</td>
</tr>
<tr>
<td>Was the facility being properly operated at the time of the emergency?</td>
</tr>
<tr>
<td>Describe:</td>
</tr>
<tr>
<td>Type of Pollutants Emitted: TSP, PM-10, SO2, VOC, NOx, CO, Pb, other:</td>
</tr>
<tr>
<td>Estimated amount of pollutant(s) emitted during emergency:</td>
</tr>
<tr>
<td>Describe the steps taken to mitigate the problem:</td>
</tr>
<tr>
<td>Describe the corrective actions/response steps taken:</td>
</tr>
<tr>
<td>Describe the measures taken to minimize emissions:</td>
</tr>
<tr>
<td>If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:</td>
</tr>
</tbody>
</table>

Form Completed by: ________________________________
Title / Position: ________________________________
Date: _________________________________________
Phone: ________________________________
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE AND ENFORCEMENT BRANCH  

FESOP Quarterly Report  

Source Name: Building Materials Manufacturing Corporation  
Source Address: 901 Givens Road, Mount Vernon, Indiana 47620  
FESOP Permit No.: F129-38119-00011  
Facility: blowstill BS3  
Parameter: asphalt throughput  
Limit: Asphalt throughput shall not exceed 175,200 tons per twelve (12) consecutive month period with compliance determined at the end of each month.  

<table>
<thead>
<tr>
<th>QUARTER: ____________</th>
<th>YEAR: ________________</th>
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<table>
<thead>
<tr>
<th>Month</th>
<th>Column 1</th>
<th>Column 2</th>
<th>Column 1 + Column 2</th>
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<tbody>
<tr>
<td>This Month (tons)</td>
<td>Previous 11 Months (tons)</td>
<td>12 Month Total (tons)</td>
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</tr>
</tbody>
</table>

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.  
Deviation has been reported on: ____________________________

Submitted by: ____________________________  
Title / Position: ____________________________  
Signature: ____________________________  
Date: ____________________________  
Phone: ____________________________
## INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
### OFFICE OF AIR QUALITY
#### COMPLIANCE AND ENFORCEMENT BRANCH

**FESOP Quarterly Report**

<table>
<thead>
<tr>
<th>Source Name:</th>
<th>Building Materials Manufacturing Corporation</th>
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</thead>
<tbody>
<tr>
<td>Source Address:</td>
<td>901 Givens Road, Mount Vernon, Indiana 47620</td>
</tr>
<tr>
<td>FESOP Permit No.:</td>
<td>F129-38119-00011</td>
</tr>
<tr>
<td>Facility:</td>
<td>blowstills BS1 and BS3</td>
</tr>
<tr>
<td>Parameter:</td>
<td>asphalt throughput</td>
</tr>
<tr>
<td>Limit:</td>
<td>The asphalt throughput for blowstills BS1 and BS3 shall not exceed 90,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.</td>
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</table>

**QUARTER: __________ YEAR: __________**

<table>
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<th>Month</th>
<th>Column 1</th>
<th>Column 2</th>
<th>Column 1 + Column 2</th>
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<tr>
<td>This Month (tons)</td>
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<td>12 Month Total (tons)</td>
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</table>

- [ ] No deviation occurred in this quarter.
- [ ] Deviation/s occurred in this quarter.
  Deviation has been reported on: ____________________________

Submitted by: ____________________________
Title / Position: ____________________________
Signature: ____________________________
Date: ____________________________
Phone: ____________________________
Source Name: Building Materials Manufacturing Corporation
Source Address: 901 Givens Road, Mount Vernon, Indiana 47620
FESOP Permit No.: F129-38119-00011
Facility: shingles and rolls production line
Parameter: asphalt throughput
Limit: The asphalt throughput for the shingle and roll roofing production line shall not exceed 110,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

QUARTER: __________ YEAR: _________________

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<th>Column 2</th>
<th>Column 1 + Column 2</th>
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☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on: ____________________________

Submitted by: ________________________________
Title / Position: ________________________________
Signature: ______________________________________
Date: _______________________________________
Phone: ______________________________________
Indiana Department of Environmental Management  
Office of Air Quality  
Compliance and Enforcement Branch  
Federally Enforceable State Operating Permit (FESOP)  
Quarterly Deviation and Compliance Monitoring Report  

Source Name: Building Materials Manufacturing Corporation  
Source Address: 901 Givens Road, Mount Vernon, Indiana 47620  
FESOP Permit No.: F129-38119-00011  

This report shall be submitted quarterly based on a calendar year. Proper notice submittal under Section B - Emergency Provisions satisfies the reporting requirements of paragraph (a) of Section C - General Reporting. Any deviation from the requirements of this permit, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

- □ NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.  
- □ THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

<table>
<thead>
<tr>
<th>Permit Requirement</th>
<th>Date of Deviation:</th>
<th>Duration of Deviation:</th>
<th>Number of Deviations:</th>
<th>Probable Cause of Deviation:</th>
<th>Response Steps Taken:</th>
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<tr>
<td>Permit Requirement (specify permit condition #)</td>
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<tr>
<td>Response Steps Taken:</td>
</tr>
</tbody>
</table>

Form Completed by: 
Title / Position: 
Date: 
Phone: 
Source Description and Location

<table>
<thead>
<tr>
<th>Source Name:</th>
<th>Building Materials Manufacturing Corporation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Source Location:</td>
<td>901 Givens Road, Mount Vernon, IN 47620</td>
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<tr>
<td>County:</td>
<td>Posey</td>
</tr>
<tr>
<td>SIC Code:</td>
<td>2952 (Asphalt Felts and Coatings)</td>
</tr>
<tr>
<td>Operation Permit No.:</td>
<td>F 129-38119-00011</td>
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<tr>
<td>Operation Permit Issuance Date:</td>
<td>November 5, 2018</td>
</tr>
<tr>
<td>Significant Permit Revision No.:</td>
<td>129-41894-00011</td>
</tr>
<tr>
<td>Permit Reviewer:</td>
<td>Doug Logan</td>
</tr>
</tbody>
</table>

Existing Approvals

The source was issued FESOP Renewal No. 129-38119-00011 on November 5, 2018. There have been no subsequent approvals issued.

County Attainment Status

The source is located in Posey County.

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>SO₂</td>
<td>Better than national standards.</td>
</tr>
<tr>
<td>CO</td>
<td>Unclassifiable or attainment effective November 15, 1990.</td>
</tr>
<tr>
<td>O₃</td>
<td>Unclassifiable or attainment effective July 20, 2012, for the 2008 8-hour ozone standard.¹</td>
</tr>
<tr>
<td>PM₂.₅</td>
<td>Unclassifiable or attainment effective April 15, 2015, for the 2012 annual PM₂.₅ standard.</td>
</tr>
<tr>
<td>PM₁₀</td>
<td>Unclassifiable effective November 15, 1990.</td>
</tr>
<tr>
<td>NO₂</td>
<td>Unclassifiable or attainment effective January 29, 2012, for the 2010 NO₂ standard.</td>
</tr>
<tr>
<td>Pb</td>
<td>Unclassifiable or attainment effective December 31, 2011, for the 2008 lead standard.</td>
</tr>
</tbody>
</table>

¹Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005.

(a) Ozone Standards
Volatile organic compounds (VOC) and Nitrogen Oxides (NOₓ) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOₓ emissions are considered when evaluating the rule applicability relating to ozone. Posey County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOₓ emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(b) PM₂.₅
Posey County has been classified as attainment for PM₂.₅. Therefore, direct PM₂.₅, SO₂, and NOₓ emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
(c) Other Criteria Pollutants
Posey County has been classified as attainment or unclassifiable in Indiana for all the other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Fugitive Emissions

Since this type of operation is not one (1) of the twenty-eight (28) listed source categories under 326 IAC 2-2-1(ff)(1), 326 IAC 2-3-2(g), or 326 IAC 2-7-1(22)(B), and there is no applicable New Source Performance Standard or National Emission Standard for Hazardous Air Pollutants that was in effect on August 7, 1980, fugitive emissions are not counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

The fugitive emissions of hazardous air pollutants (HAP) are counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability under Section 112 of the Clean Air Act (CAA).

Greenhouse Gas (GHG) Emissions

On June 23, 2014, in the case of Utility Air Regulatory Group v. EPA, cause no. 12-1146, (available at http://www.supremecourt.gov/opinions/13pdf/12-1146_4g18.pdf) the United States Supreme Court ruled that the U.S. EPA does not have the authority to treat greenhouse gases (GHGs) as an air pollutant for the purpose of determining operating permit applicability or PSD Major source status. On July 24, 2014, the U.S. EPA issued a memorandum to the Regional Administrators outlining next steps in permitting decisions in light of the Supreme Court’s decision. U.S. EPA’s guidance states that U.S. EPA will no longer require PSD or Title V permits for sources “previously classified as ‘Major’ based solely on greenhouse gas emissions.”

The Indiana Environmental Rules Board adopted the GHG regulations required by U.S. EPA at 326 IAC 2-2-1(zz), pursuant to Ind. Code § 13-14-9-8(h) (Section 8 rulemaking). A rule, or part of a rule, adopted under Section 8 is automatically invalidated when the corresponding federal rule, or part of the rule, is invalidated. Due to the United States Supreme Court Ruling, IDEM, OAQ cannot consider GHG emissions to determine operating permit applicability or PSD applicability to a source or modification.

Source Status - Existing Source

The table below summarizes the potential to emit of the entire source, prior to the revision, after consideration of all enforceable limits established in the effective permits. If the control equipment has been determined to be integral, the table reflects the potential to emit (PTE) after consideration of the integral control device.

<table>
<thead>
<tr>
<th>Source-Wide Emissions Prior to Revision (ton/year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM(^1)</td>
</tr>
<tr>
<td>----------------</td>
</tr>
<tr>
<td><strong>Total PTE of Entire Source Excluding Fugitive Emissions</strong>(^*)</td>
</tr>
<tr>
<td><strong>Title V Major Source Thresholds</strong></td>
</tr>
<tr>
<td><strong>PSD Major Source Thresholds</strong></td>
</tr>
</tbody>
</table>

\(^1\)Under the Part 70 Permit program (40 CFR 70), PM\(_{10}\) and PM\(_{2.5}\), not particulate matter (PM), are each considered as a "regulated air pollutant."
\(^2\)PM\(_{2.5}\) listed is direct PM\(_{2.5}\).
\(^3\)Single highest source-wide HAP, n-Hexane

\(*\)Fugitive HAP emissions are always included in the source-wide emissions.
(a) This existing source is not a major stationary source, under PSD (326 IAC 2-2), because no PSD regulated pollutant is emitted at a rate of two hundred fifty (250) tons per year or more and it is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(ff)(1).

(b) This existing source is not a major source of HAP, as defined in 40 CFR 63.2, because HAP emissions are less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs.

(c) These emissions are based on the TSD of FESOP Renewal No. 129-38119-00011, issued on November 5, 2018.

**Description of Proposed Revision**

The Office of Air Quality (OAQ) has reviewed an application, submitted by Building Materials Manufacturing Corporation on September 6, 2019, relating to removing a blowing still and removing the capacity to use no. 6 fuel oil as an alternative in some fuel combustion units. The source also requested adjustment of PSD and FESOP limitations.

The following is a list of the modified emission units:

- One (1) asphalt blowing operation, approved in 2019 for modification, with a bottlenecked capacity of 40,000 pounds of asphalt per hour, consisting of:
  
  (1) One (1) blowstill, identified as BS1, constructed in 1972, with a maximum capacity of 40,000 pounds of asphalt per hour, with emissions controlled by one of two (2) afterburners (Boiler No. 1 or Boiler No. 2), exhausting though Stack S32.

  (2) One (1) blowstill, identified as BS3, constructed in 2006, with a maximum capacity of 40,000 pounds of asphalt per hour, with emissions controlled by one of two (2) afterburners (Boiler No. 1 or Boiler No. 2), exhausting though Stack S32.

  Under the NSPS, 40 CFR Part 60, Subpart UU, blowstill BS3 is an affected facility.

  Only one (1) blowstill can operate at a time because there are only enough blowers installed to charge one at a time.

  Under the NESHAP, 40 CFR 63, Subpart AAAAAA, the blowstills, BS1 and BS3, are part of an existing affected source.

- One (1) natural gas-fired combustion unit, identified as S36 flux heater, constructed in 1972, approved in 2019 for modification, with a maximum heat input capacity of 7.0 MMBtu/hr, exhausting through Stacks S35 and S36.

The following is a list of modified insignificant activities:

- Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour.

  (1) One (1) natural gas-fired combustion unit, identified as mod-bit hot oil heater, permitted in 2006, approved in 2019 for modification, with a maximum heat input capacity of 5.2 MMBtu/hr, exhausting through Stack S2.

  (2) One (1) natural gas-fired combustion unit, identified as filler heater hot oil heater, constructed in 1987, approved in 2019 for modification, with a maximum heat input capacity of 6.0 MMBtu/hr, exhausting through Stack S4.
As part of this permitting action, the following emission units and insignificant activities are being removed from the permit:

- One (1) asphalt blowing operation, consisting of:
  - (1) One (1) blowstill, identified as BS2, constructed in 1972, with a maximum capacity of 40,000 pounds of asphalt per hour, with emissions controlled by one of two (2) afterburners (Boiler No. 1 or Boiler No. 2), exhausting through Stack S32.

- One (1) No. 6 fuel oil storage tank, identified as T-22, constructed in 1990 with a maximum storage capacity of 38,000 gallons.

- Emergency generators as follows: One (1) electric emergency fire pump with a maximum capacity of 200 HP, constructed in 1972.

### Enforcement Issues

There are no pending enforcement actions related to this administrative amendment.

### Process Bottleneck

Based on information provided by the source, the asphalt blowing process is bottlenecked by the installed capacity of blowers. Sufficient blower capacity exists to operate only one blowing still at a time. The restrictions on air supply restrict the overall capacity of the asphalt blowing process to 40,000 pounds of asphalt per hour.

### Emission Calculations

See Appendix A of this Technical Support Document for detailed emission calculations.

### Permit Level Determination – FESOP Significant Permit Revision

There are no new emission units or modifications to existing emission units (i.e., no physical change or change in the method of operation occurring at the source) that increases the potential to emit any regulated pollutant as a result of this revision. See the “Description of Proposed Revision” section above for more detail.

The following changes are made to descriptive information about emissions units and insignificant activities:

- One (1) asphalt blowing operation, approved in 2019 for modification, with a bottlenecked capacity of 40,000 pounds of asphalt per hour, consisting of:
  - Three (3) blowstills, identified as BS1, BS2, and BS3, each with a maximum blowing rate of 40,000 pounds per hour with emissions controlled by two (2) afterburners (Boiler No. 1 and No. 2), and exhausting through Stack S32. Construction of BS1 and BS2 commenced in December 1972 and BS3 was constructed in 2006. Only one (1) blowstill can operate at a time because there are only enough blowers installed to charge one at a time.

  [Under 40 CFR Part 60, Subpart UU, blowstill 3 is an affected facility.]
  [Under 40 CFR 63, Subpart AAAAA, the three blowstills are affected facilities.]

(1) One (1) blowstill, identified as BS1, constructed in 1972, with a maximum capacity of 40,000 pounds of asphalt per hour, with emissions controlled by one of two (2) afterburners (Boiler No. 1 or Boiler No. 2), exhausting through Stack S32.
(2) One (1) blowstill, identified as BS3, constructed in 2006, with a maximum capacity of 40,000 pounds of asphalt per hour, with emissions controlled by one of two (2) afterburners (Boiler No. 1 or Boiler No. 2), exhausting through Stack S32.

Under the NSPS, 40 CFR Part 60, Subpart UU, blowstill BS3 is an affected facility.

Only one (1) blowstill can operate at a time because there are only enough blowers installed to charge one at a time.

Under the NESHAP, 40 CFR 63, Subpart AAAAAA, the blowstills, BS1 and BS3, are part of an existing affected source.

- One (1) natural gas-fired combustion unit, identified as S36 flux heater, constructed in 1972, approved in 2019 for modification, with a maximum heat input capacity of 7.0 MMBtu/hr, with a spare unit fired by No. 6 fuel oil (standby), and exhausting through Stacks S35 and S36.

- Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour.

(1) One (1) natural gas-fired combustion unit, identified as mod-bit hot oil heater, permitted in 2006, approved in 2019 for modification, with a maximum heat input capacity of 5.2 MMBtu/hr, using No. 6 fuel as a backup fuel, and exhausting through Stack S2.

(2) One (1) natural gas-fired combustion unit, identified as filler heater hot oil heater, constructed in 1987, approved in 2019 for modification, with a maximum heat input capacity of 6.0 MMBtu/hr, using No. 6 fuel oil as a backup fuel, and exhausting through Stack S4.

(3) One (1) natural gas-fired combustion unit, identified as liquid asphalt storage heater, permitted in 2006, with a maximum heat input capacity of 3.0 MMBtu/hr, using propane as a backup fuel, and exhausting through Stack S1.

Note: The description of the liquid asphalt storage heater in Condition A.4(a) of FESOP Renewal No. 129-38119-00011 indicates that propane is the backup fuel, however, FESOP and PSD minor limits in Condition D.2.1 apply to the combustion of No. 6 fuel oil in the liquid asphalt storage heater. The source reports that no units have backup fuel capacity of any kind, so all references to backup fuels are being removed from the calculations and permit.

- One (1) No. 6 fuel oil storage tank, identified as T-22, constructed in 1990 with a maximum storage capacity of 38,000 gallons.

See Appendix A for the revised limited potential to emit of the source after removing the backup fuel capacity.

Pursuant to 326 IAC 2-8-11.1(f), this FESOP is being revised through a FESOP Significant Permit Revision because the proposed revision is not an Administrative Amendment or Minor Permit revision and the proposed revision involves adjusting PM PSD minor limits and adjusting and adding FESOP limits.

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**PTE of the Entire Source After Issuance of the FESOP Revision**

The table below summarizes the after issuance source-wide potential to emit, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of the administrative amendment, and only to the extent that the effect of the control equipment is made practically enforceable in the permit. If the control equipment has been determined to be integral, the table reflects the potential to emit (PTE) after consideration of the integral control device.
### Source-Wide Emissions After Issuance (ton/year)

<table>
<thead>
<tr>
<th></th>
<th>PM⁰</th>
<th>PM₁₀</th>
<th>PM₂.⁵¹,²</th>
<th>SO₂</th>
<th>NOₓ</th>
<th>VOC</th>
<th>CO</th>
<th>H₂S³</th>
<th>Single HAP⁴</th>
<th>Combined HAPs</th>
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<tbody>
<tr>
<td>Total PTE of Entire</td>
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<td>96.93</td>
<td>96.93</td>
<td>83.39</td>
<td>50.34</td>
<td>62.00</td>
<td>98.56</td>
<td>50.72</td>
<td>9.33</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Title V Major Source</td>
<td>NA</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>10</td>
<td>25</td>
</tr>
<tr>
<td>Thresholds</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSD Major Source</td>
<td>250</td>
<td>250</td>
<td>250</td>
<td>250</td>
<td>250</td>
<td>250</td>
<td>250</td>
<td>250</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Thresholds</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Under the Part 70 Permit program (40 CFR 70), PM₁₀ and PM₂.⁵, not particulate matter (PM), are each considered as a "regulated air pollutant."
2. PM₂.⁵ listed is direct PM₂.⁵.
3. Corrections to calculation formulas in Appendix A to this TSD increased the potential to emit H₂S but the total remains less than thresholds in 326 IAC 2-2 and 326 IAC 2-7.
4. Single highest source-wide HAP after issuance, n-Hexane
5. Fugitive HAP emissions are always included in the source-wide emissions.

Appendix A of this TSD reflects the detailed potential to emit of the entire source after issuance.

(a) This existing Title V minor stationary source will continue to be minor under 326 IAC 2-7 because the potential to emit criteria pollutants and HAPs from the entire source will continue to be less than or limited to less than the Title V major source threshold levels. Therefore, the source is subject to the provisions of 326 IAC 2-8 (FESOP) and is an area source under Section 112 of the Clean Air Act (CAA).

(b) This existing minor PSD stationary source will continue to be minor under 326 IAC 2-2 because the potential to emit of all PSD regulated pollutants from the entire source will continue to be less than or limited to less than the PSD major source thresholds. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

### Federal Rule Applicability Determination

Due to the revision, federal rule applicability has been reviewed as follows:

**New Source Performance Standards (NSPS):**

(a) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the permit for this administrative amendment.

**National Emission Standards for Hazardous Air Pollutants (NESHAP):**

(a) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers Area Sources, 40 CFR 63, Subpart JJJJJJ are still not included in the permit for this source. Boiler 1 and Boiler 2 are natural gas-fired boilers that, pursuant to 40 CFR 63.11195(c) are not subject to the subpart. Units listed in the table below are not boilers as defined at 40 CFR 63.11237, these units do not use controlled flame combustion in which water is heated to recover thermal energy in the form of steam and/or hot water.

<table>
<thead>
<tr>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>S36 flux heater</td>
</tr>
<tr>
<td>Mod-bit hot oil heater</td>
</tr>
<tr>
<td>Filler heater hot oil heater</td>
</tr>
<tr>
<td>Coating heater</td>
</tr>
</tbody>
</table>
Based on the bottlenecks blowstill capacity of 20 tons of asphalt per hour, and a nominal heat content for hydrocarbons of 19,700 Btu/lb, the blowstill exhaust stream may be expected to supply no more than 5% of the average annual heat input of a boiler used as a control device. Therefore the boilers would not qualify for the exclusion from subpart JJJJJ at 40 CFR 63.11195(g) because the controlled gas stream does not supply 50% of more of the annual average heat input to Boiler 1 or Boiler 2.

(b) There are no other National Emission Standards for Hazardous Air Pollutants under 40 CFR 63, 326 IAC 14 and 326 IAC 20 included for this administrative amendment.

**Compliance Assurance Monitoring (CAM):**

Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is not included in the permit, because the unlimited potential to emit of the source is limited to less than the Title V major source thresholds and the source is not required to obtain a Part 70 or Part 71 permit.

<table>
<thead>
<tr>
<th>Emission Unit(s)</th>
<th>Stack ID</th>
<th>PM Limit (lb/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silo S8</td>
<td>S8</td>
<td>0.24</td>
</tr>
<tr>
<td>Silo S9</td>
<td>S9</td>
<td>0.24</td>
</tr>
<tr>
<td>Pneumatic Transport System</td>
<td>S10</td>
<td>0.24</td>
</tr>
<tr>
<td>Bin S11</td>
<td>S11</td>
<td>0.24</td>
</tr>
</tbody>
</table>

Compliance with these limits, combined with the potential to emit PM from all other emission units at this source, shall limit the source-wide total potential to emit of PM to less than 250 tons per
twelve (12) consecutive month period, and shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

326 IAC 2-8-4 (FESOP) and 326 IAC 20 (Hazardous Air Pollutants)

FESOP applicability is discussed under the PTE of the Entire Source After Issuance of the FESOP Administrative Amendment section of this document.

FESOP PM_{10}, PM_{2.5}, and VOC Limit(s)

Pursuant to 326 IAC 2-8-4 (FESOP) and in order to render the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-7 (Part 70 Permits) not applicable, the Permittee shall comply with the following:

(a) The modified bitumen roofing production line shall be limited as follows:

1. PM_{10} emissions from the modified bitumen roofing coater shall not exceed 0.12 pounds per ton of roofing produced.
2. PM_{2.5} emissions from the modified bitumen roofing coater shall not exceed 0.12 pounds per ton of roofing produced.
3. PM_{10} emissions from the modified bitumen roofing granule application process shall not exceed 0.015 pounds per ton of roofing produced.
4. PM_{2.5} emissions from the modified bitumen roofing granule application process shall not exceed 0.015 pounds per ton of roofing produced.

(b) The shingle and modified bitumen filler handling operations shall be limited as follows:

<table>
<thead>
<tr>
<th>Emission Unit(s)</th>
<th>Stack ID</th>
<th>PM_{10} Limit (lb/hr)</th>
<th>PM_{2.5} Limit (lb/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silo S8</td>
<td>S8</td>
<td>0.15</td>
<td>0.15</td>
</tr>
<tr>
<td>Silo S9</td>
<td>S9</td>
<td>0.15</td>
<td>0.15</td>
</tr>
<tr>
<td>Pneumatic Transport System S10</td>
<td>S10</td>
<td>0.15</td>
<td>0.15</td>
</tr>
<tr>
<td>Bin S11</td>
<td>S11</td>
<td>0.15</td>
<td>0.15</td>
</tr>
</tbody>
</table>

(c) The asphalt blowing operation shall be limited as follows:

1. The throughput for blowstills BS1 and BS3 shall not exceed 90,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.
2. The total blowstill BS1 and BS3 emissions shall be limited as follows:

<table>
<thead>
<tr>
<th>Emission Units</th>
<th>PM_{10} (lb/ton)</th>
<th>PM_{2.5} (lb/ton)</th>
<th>VOC (lb/ton)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BS1 and BS3</td>
<td>0.30</td>
<td>0.30</td>
<td>0.17</td>
</tr>
</tbody>
</table>

(d) The shingle and roll roofing production line shall be limited as follows:

1. The maximum throughput for the shingle and roll roofing production line shall not exceed 110,000 tons of asphalt per twelve (12) consecutive month period with compliance determined at the end of each month.
2. PM_{10} emissions from the shingle and roll roofing coater shall not exceed 0.12 pounds per ton of roofing produced.
(3) PM$_{2.5}$ emissions from the shingle and roll roofing coater shall not exceed 0.12 pounds per ton of roofing produced.

(4) PM$_{10}$ emissions from the shingle and roll roofing granule application process shall not exceed 0.015 pounds per ton of roofing produced.

(5) PM$_{2.5}$ emissions from the shingle and roll roofing granule application process shall not exceed 0.015 pounds per ton of roofing produced.

Compliance with these limits, combined with the potential to emit PM$_{10}$, PM$_{2.5}$, and VOC from all other emission units at this source, shall limit the source-wide total potential to emit of PM$_{10}$, PM$_{2.5}$, and VOC to less than 100 tons per twelve (12) consecutive month period, each, and shall render the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-7 (Part 70 Permits) not applicable.

**FESOP HAP Limit(s)**

Pursuant to 326 IAC 2-8-4 (FESOP), and in order to render the source an area source of HAP emissions under Section 112 of the Clean Air Act (CAA), and render the requirements of 326 IAC 2-7 (Part 70 Permits) not applicable, the Permittee shall comply with the following:

(a) The asphalt blowing operation shall be limited as follows:

(1) The throughput for blowstills BS1 and BS3 shall not exceed 90,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

(2) Ethylbenzene emissions from the asphalt blowing process shall not exceed 0.0065 lb/ton of asphalt.

(b) The shingle and roll roofing production line shall be limited as follows

(1) The maximum throughput for the shingle and roll roofing production line shall not exceed 110,000 tons of asphalt per twelve (12) consecutive month period with compliance determined at the end of each month.

(2) n-Hexane emissions shall not exceed 0.082 pounds per ton of asphalt.

Compliance with these limits, combined with the potential to emit HAP from all other emission units at the source, shall limit the source-wide total potential to emit single HAP to less than 10 tons per twelve (12) consecutive month period and the source-wide potential to emit total HAPs to less than 25 tons per twelve (12) consecutive month period, and shall render the source an area source of HAP emissions under Section 112 of the Clean Air Act (CAA) and shall render the requirements of 326 IAC 2-7 (Part 70 Permits) not applicable.

**326 IAC 6.5 (Particulate Matter Limitations Except Lake County)**
Pursuant to 326 IAC 6.5-1-1(a), this source (located in Posey County) is not subject to the requirements of 326 IAC 6.5 because it is not located in one of the following counties: Clark, Dearborn, Dubois, Howard, Marion, St. Joseph, Vanderburgh, Vigo or Wayne.

**326 IAC 6.8 (Particulate Matter Limitations for Lake County)**
Pursuant to 326 IAC 6.8-1-1(a), this source (located in Posey County) is not subject to the requirements of 326 IAC 6.8 because it is not located in Lake County.
State Rule Applicability – Individual Facilities

Due to the administrative amendment, state rule applicability has been reviewed as follows:

326 IAC 6-2-3 (Particulate Matter Emission Limitations for Sources of Indirect Heating)
FESOP Renewal No. 129-38119-00011, issued November 5, 2018, and earlier permits did not characterize a number of heating units as indirect fired. Under revised guidance, IDEM, OAQ is reviewing the applicability of 326 IAC 6-2 to all sources. A revised analysis of the applicability of 326 IAC 6-2 to the source follows.

(a) Pursuant to 326 IAC 6-2-1(c), for indirect heating facilities existing and in operation, or received permit to construct, prior to September 21, 1983 and not located in Lake, Porter, Marion, Boone, Hamilton, Hendricks, Johnson, Morgan, Shelby, or Hancock Counties are subject to the requirements of 326 IAC 6-2-3.

The particulate matter emissions (Pt) shall be limited by the following equation:

\[ Pt = \frac{C \times a \times h}{76.5 \times Q^{0.75} \times N^{0.25}} \]

Where:

- \( Pt \) = Pounds of particulate matter emitted per million British thermal units (lb/MMBtu).
- \( Q \) = Total source maximum operating capacity rating in MMBtu/hr heat input. The maximum source maximum operating capacity rating is defined as the maximum capacity at which the facility is operated or the nameplate capacity, whichever is specified in the facility’s permit application, except when some lower capacity is contained in the facility’s operation permit; in which case, the capacity specified in the operation permit shall be used.
- \( C \) = Maximum ground level concentration with respect to distance from the point source at the “critical” wind speed for level terrain. This shall equal fifty (50) micrograms per cubic meter for a period not to exceed a sixty (60) minute time period.
- \( a \) = Plume rise factor which is used to make allowance for less than theoretical plume rise. The value sixty-seven tenths (0.67) shall be used for \( Q \) less than or equal to one thousand (1,000) million British thermal units per hour heat input.
- \( N \) = Number of stacks in fuel burning operation.
- \( h \) = Stack height in feet. If a number of stacks of different heights exist, the average stack height to represent stacks shall be calculated by weighing each stack height with its particulate matter emission rate as follows:

\[ h = \frac{\sum_{i=1}^{N} H_i \times p_{ai} \times Q}{\sum_{i=1}^{N} p_{ai} \times Q} \]

Where:

- \( H_i \) = height of facility i stack, ft.
- \( p_{ai} \) = actual controlled emission rate of facility i, (lb/MMBtu), using an emission factor from AP-42 or stack test data. Stacks constructed after January 1, 1971, shall be credited with GEP stack height only. GEP stack height shall be calculated as specified in 326 IAC 1-7.
- \( Q \) = Heat input capacity of facility i, MMBtu/hr
Pursuant to 326 IAC 6-2-3(d), units which were existing and in operation on or before June 8, 1972, Pt shall not exceed 0.8 lb/MMBtu.

<table>
<thead>
<tr>
<th>Facility</th>
<th>Construction Date (Removal Date)</th>
<th>Operating Capacity (MMBtu/hr)</th>
<th>Q (MMBtu/hr)</th>
<th>Calculated Pt (lb/MMBtu)</th>
<th>Particulate Limitation, (Pt) (lb/MMBtu)</th>
<th>PM PTE based on AP-42 (lb/MMBtu)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiler 1</td>
<td>1972</td>
<td>29.15</td>
<td>80.80</td>
<td>0.45</td>
<td>0.8</td>
<td>0.067</td>
</tr>
<tr>
<td>Boiler 2</td>
<td>1972</td>
<td>29.15</td>
<td>80.80</td>
<td>0.45</td>
<td>0.8</td>
<td>0.067</td>
</tr>
<tr>
<td>flux heater</td>
<td>1972</td>
<td>7.00</td>
<td>80.80</td>
<td>0.45</td>
<td>0.8</td>
<td>0.067</td>
</tr>
<tr>
<td>spare flux heater</td>
<td>1972 (2019)</td>
<td>7.00</td>
<td>80.80</td>
<td>0.45</td>
<td>0.8</td>
<td>0.067</td>
</tr>
<tr>
<td>coating heater</td>
<td>1972</td>
<td>4.5</td>
<td>80.80</td>
<td>0.45</td>
<td>0.8</td>
<td>0.067</td>
</tr>
<tr>
<td>mill hot oil heater</td>
<td>1972 (2012)</td>
<td>2.5</td>
<td>80.80</td>
<td>0.45</td>
<td>0.8</td>
<td>0.067</td>
</tr>
<tr>
<td>spare hot oil heater</td>
<td>1972 (2012)</td>
<td>1.5</td>
<td>80.80</td>
<td>0.45</td>
<td>0.8</td>
<td>0.067</td>
</tr>
</tbody>
</table>

The calculated values for Pt are based on the renewal application submitted July 1988, VFC ID 36965121, taken as representative of construction conditions.

\[
Pt = \frac{50 \times 0.67 \times 45.18}{76.5 \times 80.80^{0.75} \times 7^{0.26}} = 0.45\text{lb/MMBtu}
\]

Where: \( Q \) = The total source capacity rating (MMBtu/hr) of all units existing at the source on June 8, 1972.

Notes:
1. Emissions units shown in strikethrough were subsequently removed from the source, ref AA No. 129-32127-00011, issued September 14, 2012 and SPR No. 129-41894-00011
2. In AA No. 129-32127-00011, the source reported that this unit was modified to burn natural gas in the mid-1990's. IDEM, OAQ is retaining the originally-applicable particulate matter limitation for the unit because the source described the fuel change as a modification, not construction of a new unit.

(b) Pursuant to 326 IAC 6-2-1(d), indirect heating facilities which received permit to construct after September 21, 1983 are subject to the requirements of 326 IAC 6-2-4.

The particulate matter emissions (Pt) shall be limited by the following equation:

\[
Pt = \frac{1.09}{Q^{0.26}}
\]

Where:
\[
Pt = \text{Pounds of particulate matter emitted per million British thermal units (lb/MMBtu).}
Q = \text{Total source maximum operating capacity rating in MMBtu/hr heat input.}
\]
The maximum operating capacity rating is defined as the maximum capacity at which the facility is operated or the nameplate capacity, whichever is specified in the facility’s permit application, except when some lower capacity is contained in the facility’s operation permit; in which case, the capacity specified in the operation permit shall be used.

### Indirect Heating Units Which Began Operation After September 21, 1983

<table>
<thead>
<tr>
<th>Facility</th>
<th>Construction Date (Removal Date)</th>
<th>Operating Capacity (MMBtu/hr)</th>
<th>Calculated Pt (lb/MMBtu)</th>
<th>Particulate Limitation (Pt) (lb/MMBtu)</th>
<th>PM PTE based on AP-42 (lb/MMBtu)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Units Operating Prior to 9/21/1983</td>
<td>80.80</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Mod-bit hot oil heater</td>
<td>1986</td>
<td>5.2</td>
<td>88.50</td>
<td>0.34</td>
<td>0.34</td>
</tr>
<tr>
<td>Liquid asphalt storage heater</td>
<td>1986 (2007)</td>
<td>2.5</td>
<td>88.50</td>
<td>0.34</td>
<td>0.34</td>
</tr>
<tr>
<td>Filler heater</td>
<td>1987</td>
<td>6.5</td>
<td>95.00</td>
<td>0.33</td>
<td>0.33</td>
</tr>
<tr>
<td>Thermal fluid heater</td>
<td>2007</td>
<td>5.0</td>
<td>100.50</td>
<td>0.33</td>
<td>0.33</td>
</tr>
<tr>
<td>Liquid asphalt storage heater</td>
<td>2007</td>
<td>3.0</td>
<td>100.50</td>
<td>0.33</td>
<td>0.33</td>
</tr>
<tr>
<td>Mill hot oil heater (#2)</td>
<td>1972 (2012)</td>
<td>2.5</td>
<td>96.50</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Spare hot oil heater (#1)</td>
<td>1972 (2012)</td>
<td>4.5</td>
<td>96.50</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Spare flux heater</td>
<td>1972 (2019)</td>
<td>7.00</td>
<td>89.50</td>
<td>--</td>
<td>--</td>
</tr>
</tbody>
</table>

Where: \( Q \) = Includes the capacity (MMBtu/hr) of the new unit(s) and the capacities for those unit(s) which were in operation at the source at the time the new unit(s) was constructed. Operating capacity (Q) for the units installed in 1986 and 1987 are corrected values taken from FESOP No. 129-5585-00011, issued December 11, 1996.

Note: Emission units shown in strikethrough were subsequently removed from the source. The effect of removing these units on "Q" is shown in the year the unit was removed.

The liquid asphalt storage heater was uprated from 2.5 MMBtu/hr (NG/No 2 FO) to 3.0 MMBtu (NG/LPG) in FESOP Renewal No. 129-23419-00011, issued October 23, 2007, taken as removing the original unit and installing new for Pt calculation because of the change in backup fuel.

(c) The present action, SPR No. 129-41894-00011, removes all backup fuels. All units burning natural gas with potential to emit 0.002 lb PM/MMBtu are consider to comply with the limitations applicable under 326 IAC 6-2, which are based on the original-construction conditions.

### 326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)

(a) The S36 flux heater, mod-bit hot oil heater, and filler hot oil heater are no longer subject to 326 IAC 326 IAC 7-1.1 because these units have a potential to emit (or limited potential to emit) sulfur dioxide (SO2) of less than 25 tons per year or 10 pounds per hour, each. The units no longer have any capacity to burn a fuel that is subject to the limitations in 326 IAC 7-1.1-2.
(b) The asphalt blowing operation is subject to 326 IAC 326 IAC 7-1.1 because the unit has a potential to emit (or limited potential to emit) sulfur dioxide (SO2) of 25 tons per year or 10 pounds per hour, or more. The unit and its control devices (Boiler 1 and Boiler 2) no longer have any capacity to burn a fuel that is subject to the limitations in 326 IAC 7-1.2. None of the compliance test methods in 326 IAC 7-1.1-2 are applicable to the asphalt blowing operation. The asphalt blowing operation is not subject to sulfur dioxide emission limitations and other requirements under 326 IAC 2, 326 IAC 7-4, 326 IAC 7-4.1, and 326 IAC 12. Therefore, no requirements of 326 IAC 7-1.1 are included in the permit for the asphalt blowing operation.

Compliance Determination and Monitoring Requirements

(a) The Compliance Determination Requirements applicable to this revision are as follows:

1. The baghouses for particulate control shall be in operation and control emissions from the storage silos S8 and S9, pneumatic transport system S10, and storage bin S11 at all times the storage silos S8 and S9, pneumatic transport system S10, and storage bin S11 are in operation.

2. The mist collector for particulate control shall be in operation and control emissions from the modified bitumen roofing line coater at all times the modified bitumen roofing line coater is in operation.

3. The dust collector for particulate control shall be in operation and control emissions from the modified bitumen roofing granule application process at all times the modified bitumen roofing granule application process is in operation.

4. The mist collector for particulate control shall be in operation and control emissions from the shingle and roll roofing line coater at all times the shingle and roll roofing line coater is in operation.

5. The dust collector for particulate control shall be in operation and control emissions from the shingle and roll roofing granule application process at all times the shingle and roll roofing granule application process is in operation.

6. The boiler (Boiler 1 or Boiler 2) for particulate, VOC, CO, and HAP control shall be in operation and control emissions from the asphalt blowing process at all times the asphalt blowing process is in operation.

Testing Requirements:

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Control Device</th>
<th>Timeframe for Testing or Date of Initial Valid Demonstration</th>
<th>Pollutant/Parameter</th>
<th>Frequency of Testing</th>
<th>Authority</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt blowing</td>
<td>boiler (1 or 2)</td>
<td>10/29/2015 (0.02 lb/ton asphalt)</td>
<td>PM</td>
<td>every 5 years</td>
<td>326 IAC 2-2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10/29/2015 (0.04 lb/ton asphalt)</td>
<td>PM&lt;sub&gt;10&lt;/sub&gt;, PM&lt;sub&gt;2.5&lt;/sub&gt;</td>
<td></td>
<td>326 IAC 2-2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4/17/2019 (0.0032 lb/ton asphalt, 99.96% DE)</td>
<td>VOC</td>
<td>every 5 years</td>
<td>326 IAC 2-2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>180 days&lt;sup&gt;1&lt;/sup&gt;</td>
<td>ethylbenzene</td>
<td></td>
<td>326 IAC 2-8-4</td>
</tr>
<tr>
<td>Mod-bit roofing line coater</td>
<td>mist collector</td>
<td>180 days&lt;sup&gt;2&lt;/sup&gt;</td>
<td>PM&lt;sub&gt;10&lt;/sub&gt;, PM&lt;sub&gt;2.5&lt;/sub&gt;</td>
<td>every 5 years</td>
<td>326 IAC 2-2</td>
</tr>
</tbody>
</table>
Summary of Testing Requirements

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Control Device</th>
<th>Timeframe for Testing or Date of Initial Valid Demonstration</th>
<th>Pollutant/Parameter</th>
<th>Frequency of Testing</th>
<th>Authority</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mod-bit roofing line granule application</td>
<td>dust collector</td>
<td>180 days(^2)</td>
<td>PM(<em>{10}), PM(</em>{2.5})</td>
<td>every 5 years</td>
<td>326 IAC 2-2, 326 IAC 2-8-4</td>
</tr>
<tr>
<td>Shingle &amp; roll roofing line coater</td>
<td>mist collector</td>
<td>180 days(^2)</td>
<td>PM(<em>{10}), PM(</em>{2.5})</td>
<td>every 5 years</td>
<td>326 IAC 2-2, 326 IAC 2-8-4</td>
</tr>
<tr>
<td>Shingle &amp; roll roofing line granule application</td>
<td>dust collector</td>
<td>180 days(^2)</td>
<td>PM(<em>{10}), PM(</em>{2.5})</td>
<td>every 5 years</td>
<td>326 IAC 2-2, 326 IAC 2-8-4</td>
</tr>
</tbody>
</table>

Notes:
1. 180 days means not later than 180 days after a VOC test result >0.005 lb/ton.
2. 180 days means not later than 180 days after issuance of SPR No. 129-41984-00011

(b) The Compliance Monitoring Requirements applicable to this proposed revision are as follows:

<table>
<thead>
<tr>
<th>Control Device</th>
<th>Type of Parametric Monitoring</th>
<th>Frequency</th>
<th>Range or Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiler (1 or 2)</td>
<td>Visible emission notations</td>
<td>Daily(^1)</td>
<td>Normal-abnormal</td>
</tr>
<tr>
<td></td>
<td>Temperature</td>
<td>Continuous(^1)</td>
<td>At or above the value established in the most recent compliant stack test.</td>
</tr>
</tbody>
</table>

Notes:
1. Compliance monitoring is required when a boiler is operating as a control device for the asphalt blowing operation.

These monitoring conditions are necessary because the boiler serving as an afterburner for the asphalt blowing process must operate properly to assure compliance with 326 IAC 2-2 (PSD), 326 IAC 2-8 (FESOP), and 326 IAC 8-1-6 (BACT).

Proposed Changes

The following changes listed below are due to the proposed revision. Conditions were renumbered as required to accommodate inserted material. Deleted language appears as strikethrough text and new language appears as bold text:

1. IDEM, OAQ made the following changes to descriptive information in Section A, D-sections, and E-sections:
   - Applicability statements for NSPS and NESHAPs were updated to current models.
   - The description of granule application in the modified bitumen roofing line was corrected based on information provided by the source.
   - Statements of construction and modification dates were updated to current models.
   - Typographical errors in stack ID's were corrected.
   - The description of the asphalt blowing process was revised because of the removal of blowstill BS2.
   - The description of granule and sand application in the shingle and roll roofing line was corrected based on information provided by the source.
   - Backup fuels were removed at the request of the source.
• Descriptions of the coating heater, liquid asphalt storage heater, and thermal fluid heater were added to Condition A.3 - Specifically Regulated Insignificant Activities and the Section D.2 emissions unit description box because the units use combustion for indirect heating subject to 326 IAC 6-2.

• Descriptions of combustion and emergency equipment insignificant activities were revised to match the underlying rule more closely.

• Descriptions of the coating heater, liquid asphalt storage heater, and thermal fluid heater were removed from Condition A.4 - Insignificant Activities because the units use combustion for indirect heating subject to 326 IAC 6-2.

• The description of No. 6 fuel oil tank T-22 was removed from Condition A.4 - Insignificant Activities because the tank was taken out of service.

• Paragraph (z) was removed from Condition A.4 - Insignificant Activities because an electric motor-driven fire pump is not an emergency generator nor is it a source of emissions.

(2) IDEM, OAQ deleted Condition D.1.2 - FESOP, PDS Minor, and HAP Minor Limits.

(3) IDEM, OAQ added a new Condition D.1.2 - PSD Minor Limits incorporating PM limitations for filler handling and asphalt blowing, including a revised limit for asphalt blowing.

(4) IDEM, OAQ added a new Condition D.1.3 - FESOP and PSD Minor Limits incorporating PM10 and PM2.5 limitations for roofing production lines, filler handling, and asphalt blowing, including revised PM10 and PM2.5 limits for asphalt blowing. The former CO limit for asphalt blowing was not retained in the new condition because the source-wide uncontrolled potential to emit CO is less than 100 tons per year.

(5) IDEM, OAQ added a new Condition D.1.4 - Hazardous Air Pollutants Limitations incorporating limitations HAPs, including a new limit for asphalt blowing.

(6) Condition D.1.5 - Particulate Emission Limitations was updated to current model language.

(7) The former Condition D.1.5 - Particulate, VOC, and CO Control was deleted.

(8) IDEM, OAQ added a new Condition D.1.7 - Particulate Control to incorporate requirements for mineral handling and roofing production operations.

(8) IDEM, OAQ added a new Condition D.1.8 - Asphalt Blowing Process Emissions Control to incorporate requirements for asphalt blowing operations.

(9) IDEM, OAQ made the following changes to Condition D.1.9 - Testing Requirements:
• Citations in paragraphs (a) - (c) were revised as needed to accommodate revised limit conditions.
• New paragraphs (d) - (i) were added to incorporate testing requirements for new limits.

(10) IDEM, OAQ made the following changes to Condition D.1.10 - Visible Emissions Notations:
• Boilers 1 and 2 were deleted from paragraph (a) because the units are subject to different requirements.
• A new paragraph (b) was added to incorporate requirements for Boilers 1 and 2 that are specific to use of the boilers as control devices for asphalt blowing.

(11) IDEM, OAQ revised citations in paragraph (b) to accommodate revised limit conditions.

(12) IDEM, OAQ made the following changes to Condition D.1.13 - Record Keeping Requirements:
• Citations in paragraphs (b) - (d) were revised as needed to accommodate revised limit conditions and renumbered conditions.
Paragraph (e) was revised to clarify that continuous temperature record keeping is required only when a boiler is in service as a control device for the asphalt blowing operation. Paragraph (f) was deleted because the asphalt blowing process does not use sulfur-containing solid or liquid fuels.

(13) IDEM, OAQ revised citations in Condition D.1.14 - Reporting Requirements to accommodate revised limit conditions.

(14) IDEM, OAQ deleted Conditions D.2.1 - FESOP and PDS Minor Limits, D.2.3 - Sulfur Dioxide Emission Limits, D.2.5 - Sulfur Dioxide Emissions and Sulfur Content, and D.2.6 - Record Keeping Requirements because the units burn only natural gas and the limits are no longer required.

(15) IDEM, OAQ added the flux heater and coating heater to Condition D.2.1 - Particulate [326 IAC 6-2-3] because the units use combustion for indirect heating and were constructed before September 21, 1983.

(16) IDEM, OAQ added Condition D.2.2 - Particulate [326 IAC 6-2-4] for units that use combustion for indirect heating and were constructed after September 21, 1983.

(17) After consultation with the Compliance Data Section, Condition E.1.4 - Testing Requirements was revised to indicate that the requirement under 326 IAC 2-7 to repeat one-time testing required by the NSPS does not include opacity testing for mineral handling and storage facilities.

(18) IDEM, OAQ made the following changes in Section E.2:
   • The citation of 40 CFR 60.4211(b) was deleted from line 7 of Condition E.2.2 - Stationary Compression Ignition Internal Combustion Engines NSPS. Line 2 cites emission standards at 40 CFR 60.4205(b), which are not referenced in §60.4211(b).
   • Condition D.2.3 was deleted because the compliance method for engines subject to §60.4205(b) is "purchasing an engine certified to the emission standards..." Testing of certified engines is not required except in the case of modifications as described in 40 CFR 60.4211(g).

(19) IDEM, OAQ deleted Condition E.3.3 - Preventive Maintenance Plan because the emissions units subject to requirements in Section E.3 are subject to a preventive maintenance plan requirement in Section D.1..

(20) IDEM, OAQ revised limit language in the FESOP Quarterly Report Forms to current model language. IDEM, OAQ also removed blowstill BS2 from the FESOP Quarterly Report Form because the unit was removed.

(21) IDEM, OAQ deleted the FESOP Quarterly Report Form for No. 6 fuel oil usage because the capacity to use that fuel has been removed.

The entire permit has been revised as follows:

SECTION A SOURCE SUMMARY

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

This stationary source consists of the following emission units and pollution control devices:

(a) One (1) modified bitumen production line, with a maximum production rate of 13.5 tons per hour, constructed in 1986, with a mist collector for particulate control, exhausting through Stack S3, and consisting of the following:
(1) One (1) impregnator (saturator and coating tank).

[Under 40 CFR 63, Subpart AAAAAAA, this is an affected facility.]

Under the NSPS, 40 CFR 60, Subpart UU, the modified bitumen production line coater is an affected facility.

Under the NESHAP, 40 CFR 63, Subpart AAAAAAA, the modified bitumen production line coater is part of an existing affected source.

(2) One (1) dry felt looper.

(3) One (1) cooling section.

(4) One (1) granular drop section granule application process, with a maximum capacity of 10.0 tons of roofing granules per hour, controlled by a dust collector.

[Under 40 CFR Part 60, Subpart UU, these are affected facilities.]

(b) Storage and handling of bulk material operations, consisting of the following:

(1) ...

(3) Modified bitumen granules handling operation, constructed in 1986, with a maximum throughput of 10.0 tons per hour, and consisting of the following:

(A) Two (2) storage silos, identified as S27 and S28, constructed in 1986, with emissions controlled by a baghouse (S29), and exhausting to stack S30.

(B) One (1) totally enclosed pneumatic transport system, constructed in 1986, identified as modified bitumen / granules transport system, with emissions uncontrolled. Only one of the two silos can be unloaded at a time.

(C) One (1) storage bin, identified as 29, constructed in 1986, with emissions controlled by a baghouse, and exhausting to stack S30.

[Under 40 CFR Part 60, Subpart UU, this is an affected facility.]

Under the NSPS, 40 CFR Part 60, Subpart UU, the modified bitumen granules handling operation is an affected facility.

(4) Shingle granules handling operation, constructed in 1972, with a maximum throughput of 30.60 tons per hour, and consisting of the following:

(A) Eighteen (18) storage silos, identified as 1-18, constructed in 1972, with emissions uncontrolled.

(B) One (1) conveyor belt, identified as blending conveyor, constructed in 1972, with emissions uncontrolled. Only one of the eighteenth silos can be unloaded at a time.

(C) One (1) storage bin, identified as use bin, constructed in 1972, with emissions uncontrolled.

(5) Shingle and modified bitumen filler (limestone) handling operations, constructed in 1986, with a maximum throughput of 32.00 tons per hour, and consisting of the following:

(A) Two (2) pneumatic truck unloading operation, identified as shingle unloading and bitumen unloading, constructed in 1986, with emissions uncontrolled.
(B) Two (2) storage silos, identified as S8 and S9, constructed in 1986, with emissions controlled by baghouse S10, constructed in 1986, and exhausting to stack S8 and S9.

(C) One (1) pneumatic transport system, identified as S10, constructed in 1986, with emissions controlled by a baghouse, and exhausting to stack S10. Only one of the two silos can be unloaded at a time.

(D) One (1) storage bin, identified as S11, constructed in 1986, with emissions controlled by a baghouse, and exhausting to stack S11.

[Under 40 CFR Part 60, Subpart UU, these are affected facilities.]

Under the NSPS, 40 CFR Part 60, Subpart UU, the shingle and modified bitumen filler (limestone) handling operations are affected facilities.

(6) Talc handling operations, constructed in 1986, with a maximum throughput of 0.10 tons per hour, and consisting of the following:

(A) One (1) totally enclosed pneumatic truck unloading operation, constructed in 1986, identified as talc unloading, with emissions controlled by baghouse S25, and exhausting to stack S25.

(B) One (1) storage silo, identified as S25, constructed in 1986, with emissions controlled by baghouse S25, and exhausting to stack S25.

(C) One (1) pneumatic transport system, identified as S18, constructed in 1986, with emissions controlled by baghouse S18, and exhausting to stack S18.

(D) One (1) storage bin, identified as S18, constructed in 1986, with emissions controlled by baghouse S18, and exhausting to stack S18.

[Under 40 CFR Part 60, Subpart UU, these are affected facilities.]

Under the NSPS, 40 CFR Part 60, Subpart UU, the talc handling operation is an affected facility.

(7) Shingle and modified bitumen sand handling operations, constructed in 1986, with a maximum throughput of 4.63 tons per hour, and consisting of the following:

(A) One (1) pneumatic truck unloading operation, identified as sand unloading, with emissions controlled by baghouse S26, constructed in 1986, and exhausting to stack S26.

(B) One (1) storage silo, identified as S26, constructed in 1986, with emissions controlled by baghouse S26, and exhausting to stack S26.

(C) One (1) pneumatic transport system, identified as S17, constructed in 1986, with emissions controlled by baghouse S17, and exhausting to stack S17.

(D) One (1) storage bin, identified as S17, constructed in 1986, with emissions controlled by baghouse S17, and exhausting to stack S17.

[Under 40 CFR Part 60, Subpart UU, these are affected facilities.]

Under the NSPS, 40 CFR Part 60, Subpart UU, the shingle and modified bitumen sand handling operations are affected facilities.

(c) One (1) asphalt blowing operation, consisting of three (3) blowstills, identified as BS1, BS2, and BS3, each with a maximum blowing rate of 40,000 pounds per hour with emissions controlled by two (2) afterburners (boilers No. 1 and No. 2), and exhausting though Stack S32. Construction of BS1 and BS2 commenced in December 1972 and BS3 was constructed in 2006. Only one (1) blowstill can operate at a time because there are only enough blowers installed to charge one at a time.

[Under 40 CFR Part 60, Subpart UU, blowstill 3 is an affected facility.]
Under 40 CFR 63, Subpart AAAAAA, the three blowstills are affected facilities.

One (1) asphalt blowing operation, approved in 2019 for modification, with a bottlenecked capacity of 40,000 pounds of asphalt per hour, consisting of:

1. One (1) blowstill, identified as BS1, constructed in 1972, with a maximum capacity of 40,000 pounds of asphalt per hour, with emissions controlled by one of two (2) afterburners (Boiler No. 1 or Boiler No. 2), exhausting through Stack S32.

2. One (1) blowstill, identified as BS3, constructed in 2006, with a maximum capacity of 40,000 pounds of asphalt per hour, with emissions controlled by one of two (2) afterburners (Boiler No. 1 or Boiler No. 2), exhausting through Stack S32.

Under the NSPS, 40 CFR Part 60, Subpart UU, blowstill BS3 is an affected facility.

Only one (1) blowstill can operate at a time because there are only enough blowers installed to charge one at a time.

Under the NESHAP, 40 CFR 63, Subpart AAAAAA, the blowstills, BS1 and BS3, are part of an existing affected source.

(d) One (1) shingles and rolls production line, constructed in 1972, with a maximum production rate of 75 tons per hour, constructed in 1972, with a mist collector for particulate control, and exhausting through stacks S5 and S7, including the following consisting of:

1. One (1) shingle coater dip pan, identified as S5, constructed in 1972.

[Under 40 CFR 63, Subpart AAAAAA, this is an affected facility.]

Under the NESHAP, 40 CFR 63, Subpart AAAAAAAA, the shingle coater dip pan is an affected facility.

2. One (1) dry felt looper, constructed in 1972.

3. One (1) granular granule and sand application process, with a maximum capacity of 41.29 tons of sand and granules per hour, constructed in 1972 controlled by a dust collector, exhausting to stack S6.

4. One (1) self-seal application process, with a maximum capacity of 1.50 tons/hr, constructed in 1972.

5. One (1) cooling section, constructed in 1972.


7. One (1) laminator, identified as S7 with a maximum capacity of 2,500 lbs/hr, constructed in 1972.

8. One (1) shingle product cutting operation, constructed in 1972.


(e) ...

(f) One (1) natural gas-fired boiler, identified as boiler No. 2, with a maximum heat input capacity of 29.15 MMBtu/hr, constructed in 1972, and exhausting through stack S32. Boiler No. 2 serves as the primary unit.

(g) One (1) natural gas-fired combustion unit, identified as S36 flux heater, constructed in 1972, approved in 2019 for modification, with a maximum heat input capacity of 7.0 MMBtu/hr, with a spare unit fired by No. 6 fuel oil (standby), and exhausting through Stacks S35 and S36.
A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-8-3(c)(3)(l)]

This stationary source also includes the following insignificant activities:

(a) Space heaters, process heaters, heat treat furnaces, or boilers using the following fuels:

(a1) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour.

(A) One (1) natural gas fired combustion unit, identified as coating heater, constructed in 1972, modification permitted in 2012, with a maximum heat input capacity of 4.5 MMBtu/hr, exhausting through Stack S34.

(1B) One (1) natural gas-fired combustion unit, identified as mod-bit hot oil heater, permitted in 2006, approved in 2019 for modification, with a maximum heat input capacity of 5.2 MMBtu/hr, using No. 6 fuel as a backup fuel, and exhausting through Stack S2.

(2C) One (1) natural gas-fired combustion unit, identified as filler heater hot oil heater, constructed in 1987, approved in 2019 for modification, with a maximum heat input capacity of 6.0 MMBtu/hr, using No. 6 fuel oil as a backup fuel, and exhausting through Stack S4.

(D) One (1) natural gas-fired combustion unit, identified as liquid asphalt storage heater, permitted in 2006, with a maximum heat input capacity of 3.0 MMBtu/hr, exhausting through Stack S1.

(E) One (1) natural gas-fired combustion unit, identified as thermal fluid heater, with a maximum heat input capacity of 5.0 MMBtu/hr, approved for construction in 2007.

(b) Two (2) storage tanks, identified as T-8 (self-seal asphalt) and T-16 (self-seal asphalt slate line), each constructed in 1989 and each with a maximum storage capacity of 14,000 gallons.

[Under 40 CFR Part 60, Subpart UU, these are affected facilities.]

Under the NSPS, 40 CFR Part 60, Subpart UU, tanks T-8 and T-16 are affected facilities.

(c) Two (2) storage tanks, identified as T-20 (liquid APP plasticizer) and T-18 (holding tank package asphalt), constructed in 1986 and 1985, respectively, and each with a maximum storage capacity of 30,000 gallons.

[Under 40 CFR Part 60, Subpart UU, these are affected facilities.]

Under the NSPS, 40 CFR Part 60, Subpart UU, tanks T-20 and T-18 are affected facilities.

(d) Emergency generators as follows: Diesel generators not exceeding one thousand six hundred (1,600) horsepower. Activities associated with emergencies consisting of:

(1) Emergency generators as follows:

(A) One (1) diesel-fired emergency generator, identified as S-47, constructed in 2010, with a maximum rated capacity of 755 hp.
Under the NSPS, 40 CFR 60, Subpart IIII, emergency generator S-47 is an affected facility.

Under the NESHAP, 40 CFR 63, Subpart ZZZZ, emergency generator S-47 is a new affected source.

(2) Stationary fire pump engines as follows:

(1A) One (1) diesel-fired emergency fire pump, **constructed in 1972**, with a maximum capacity of 255 HP.

[Under 40 CFR 63, Subpart ZZZZ, this is an existing affected facility.]
Under the NESHAP, 40 CFR 63, Subpart ZZZZ, the emergency fire pump is an existing affected source.

(2) One (1) diesel-fired emergency generator, identified as S-47, with a maximum rated capacity of 755 hp, constructed in 2010.

[Under 40 CFR 60, Subpart IIII, this is an affected facility.
Under 40 CFR 63, Subpart ZZZZ, this is a new affected facility.]

(e) A gasoline fuel transfer dispensing operation handling less than or equal to one thousand three hundred (1,300) gallons per day and filling storage tanks having a capacity equal to or less than ten thousand five hundred (10,500) gallons. This operation handles less than 10,000 gallons per month.

[Under 40 CFR 63, Subpart CCCCCCC, this is an affected facility.]
Under the NESHAP, 40 CFR 63, Subpart CCCCCCC, the gasoline dispensing operation is an affected source.

(f) ...

A.4 Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-8-3(c)(3)(I)]
This stationary source also includes the following insignificant activities:

(a) Space heaters, process heaters, heat treat furnaces, or boilers using the following fuels:

(1) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour.

(A) One (1) natural gas fired combustion unit, identified as coating heater, permitted in 2006, with a maximum heat input capacity of 4.5 MMBtu/hr, and exhausting through Stack S34.

(B) One (1) natural gas-fired combustion unit, identified as liquid asphalt storage heater, permitted in 2006, with a maximum heat input capacity of 3.0 MMBtu/hr, using propane as a backup fuel, and exhausting through Stack S1.

(C) One (1) natural gas-fired combustion unit, identified as thermal fluid heater, with a maximum heat input capacity of 5.0 MMBtu/hr, approved for construction in 2007.

(21) Propane or liquefied petroleum gas or butane-fired combustion sources with heat input equal to or less than six million (6,000,000) British thermal units per hour.
(A) One (1) propane fired combustion unit, identified as flame bar, permitted in 2003, with a maximum heat input capacity of 1.0 MMBtu/hr.

(b) ...

(f) One (1) No. 6 fuel oil storage tank, identified as T-22, constructed in 1990 with a maximum storage capacity of 38,000 gallons Reserved.

(g) ...

(z) Emergency generators as follows: One (1) electric emergency fire pump with a maximum capacity of 200 HP, constructed in 1972.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(a) One (1) modified bitumen production line, with a maximum production rate of 13.5 tons per hour, constructed in 1986, with a mist collector for particulate control, exhausting through Stack S3, and consisting of the following:

(1) One (1) impregnator (saturator and coating tank).

[Under 40 CFR 63, Subpart AAAAAAA, this is an affected facility.]
Under the NSPS, 40 CFR 60, Subpart UU, the modified bitumen production line coater is an affected facility.

Under the NESHAP, 40 CFR 63, Subpart AAAAAAA, the modified bitumen production line coater is part of an existing affected source.

(2) One (1) dry felt looper.

(3) One (1) cooling section.

(4) One (1) granular drop section granule application process, with a maximum capacity of 10.0 tons of roofing granules per hour, controlled by a dust collector.

[Under 40 CFR Part 60, Subpart UU, these are affected facilities.]

(b) Storage and handling of bulk material operations, consisting of the following:

(1) ...

(3) Modified bitumen granules handling operation, constructed in 1986, with a maximum throughput of 10.0 tons per hour, and consisting of the following:

(A) Two (2) storage silos, identified as S27 and S28, constructed in 1986, with emissions controlled by a baghouse (S29), and exhausting to stack S30.

(B) One (1) totally enclosed pneumatic transport system, constructed in 1986, identified as modified bitumen / granules transport system, with emissions uncontrolled. Only one of the two silos can be unloaded at a time.

(C) One (1) storage bin, identified as 29, constructed in 1986, with emissions controlled by a baghouse, and exhausting to stack S30.

[Under 40 CFR Part 60, Subpart UU, this is an affected facility.]
Under the NSPS, 40 CFR Part 60, Subpart UU, the modified bitumen granules handling operation is an affected facility.
(4) Shingle granules handling operation, constructed in 1972, with a maximum throughput of 30.60 tons per hour, and consisting of the following:

(A) Eighteen (18) storage silos, identified as 1-18, constructed in 1972, with emissions uncontrolled.

(B) One (1) conveyor belt, identified as blending conveyor, constructed in 1972, with emissions uncontrolled. Only one of the eighteenth silos can be unloaded at a time.

(C) One (1) storage bin, identified as use bin, constructed in 1972, with emissions uncontrolled.

(5) Shingle and modified bitumen filler (limestone) handling operations, constructed in 1986, with a maximum throughput of 32.00 tons per hour, and consisting of the following:

(A) Two (2) pneumatic truck unloading operation, identified as shingle unloading and bitumen unloading, constructed in 1986, with emissions uncontrolled.

(B) Two (2) storage silos, identified as S8 and S9, constructed in 1986, with emissions controlled by baghouse S10, constructed in 1986, and exhausting to stack S8 and S9.

(C) One (1) pneumatic transport system, identified as S10, constructed in 1986, with emissions controlled by a baghouse, and exhausting to stack S10. Only one of the two silos can be unloaded at a time.

(D) One (1) storage bin, identified as S11, constructed in 1986, with emissions controlled by a baghouse, and exhausting to stack S11.

[Under 40 CFR Part 60, Subpart UU, these are affected facilities.]

Under the NSPS, 40 CFR Part 60, Subpart UU, the shingle and modified bitumen filler (limestone) handling operations are affected facilities.

(6) Talc handling operations, constructed in 1986, with a maximum throughput of 0.10 tons per hour, and consisting of the following:

(A) One (1) totally enclosed pneumatic truck unloading operation, identified as sand talc unloading, with emissions controlled by baghouse S26, constructed in 1986, and exhausting to stack S26 stack S25.

(B) One (1) storage silo, identified as S26S25, constructed in 1986, with emissions controlled by baghouse S26S25, and exhausting to stack S26S25.

(C) One (1) pneumatic transport system, identified as S17S18, constructed in 1986, with emissions controlled by baghouse S17S18, and exhausting to stack S17S18.

(D) One (1) storage bin, identified as S17S18, constructed in 1986, with emissions controlled by baghouse S17S18, and exhausting to stack S17S18.

[Under 40 CFR Part 60, Subpart UU, these are affected facilities.]

Under the NSPS, 40 CFR Part 60, Subpart UU, the talc handling operation is an affected facility.

(7) Shingle and modified bitumen sand handling operations, constructed in 1986, with a maximum throughput of 4.63 tons per hour, and consisting of the following:

(A) One (1) pneumatic truck unloading operation, identified as sand unloading, with emissions controlled by baghouse S26, constructed in 1986, and exhausting to stack S26 stack S26.

(B) One (1) storage silo, identified as S26, constructed in 1986, with emissions controlled by baghouse S26, and exhausting to stack S26.
One (1) pneumatic transport system, identified as S17, constructed in 1986, with emissions controlled by baghouse S17, and exhausting to stack S17.

One (1) storage bin, identified as S17, constructed in 1986, with emissions controlled by baghouse S17, and exhausting to stack S17.

[Under 40 CFR Part 60, Subpart UU, these are affected facilities.]

Under the NSPS, 40 CFR Part 60, Subpart UU, the shingle and modified bitumen sand handling operations are affected facilities.

One (1) asphalt blowing operation, consisting of three (3) blowstills, identified as BS1, BS2, and BS3, each with a maximum blowing rate of 40,000 pounds per hour with emissions controlled by two (2) afterburners (boilers No. 1 and No. 2), and exhausting through Stack S32. Construction of BS1 and BS2 commenced in December 1972 and BS3 was constructed in 2006. Only one (1) blowstill can operate at a time because there are only enough blowers installed to charge one at a time.

[Under 40 CFR Part 60, Subpart UU, blowstill 3 is an affected facility.]
[Under 40 CFR 63, Subpart AAAAAA, the three blowstills are affected facilities.]

Under the NSPS, 40 CFR Part 60, Subpart UU, blowstill BS3 is an affected facility.

Only one (1) blowstill can operate at a time because there are only enough blowers installed to charge one at a time.

Under the NESHAP, 40 CFR 63, Subpart AAAAAA, the blowstills, BS1 and BS3, are part of an existing affected source.

One (1) shingles and rolls production line, constructed in 1972, with a maximum production rate of 75 tons per hour, constructed in 1972, with a mist collector for particulate control, and exhausting through stacks S5 and S7, including the following consisting of:

(1) One (1) shingle coater dip pan, identified as S5, constructed in 1972.

[Under 40 CFR 63, Subpart AAAAAA, this is an affected facility.]

Under the NESHAP, 40 CFR 63, Subpart AAAAAA, the shingle coater dip pan is an existing affected facility.

(2) One (1) dry felt looper, constructed in 1972.
(3) One (1) granular granule and sand application process, with a maximum capacity of 41.29 tons of sand and granules per hour, constructed in 1972 controlled by a dust collector, exhausting to stack S6.
(4) One (1) self-seal application process, with a maximum capacity of 1.50 tons/hr, constructed in 1972.
(5) One (1) cooling section, constructed in 1972.
(6) One (1) finished product looper, constructed in 1972.

(7) One (1) laminator, identified as S7 with a maximum capacity of 2,500 lbs/hr, constructed in 1972.

(8) One (1) shingle product cutting operation, constructed in 1972.

(9) One (1) shingle product packaging operation, constructed in 1972.

(10) One (1) finished product looper, constructed in 1972.

One (1) laminator, identified as S7 with a maximum capacity of 2,500 lbs/hr, constructed in 1972.

One (1) shingle product cutting operation, constructed in 1972.

One (1) shingle product packaging operation, constructed in 1972.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

D.1.2 FESOP, PDS Minor, and HAP Minor Limits [326 IAC 2-8-4][326 IAC 2-2][326 IAC 2-4.1][326 IAC 20]

Pursuant to 326 IAC 2-8-4 (FESOP) and in order to render the requirements of 326 IAC 2-7 (Part 70 Permits) and 326 IAC 2-2 (PSD) and 326 IAC 20 and 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP)) not applicable, the Permittee shall comply with the following:

(a) The shingle and modified bitumen filler handling operations shall be limited as follows:

<table>
<thead>
<tr>
<th>Emission Unit(s)</th>
<th>Stack ID</th>
<th>PM (lb/hr)</th>
<th>PM10 (lb/hr)</th>
<th>PM2.5 (lb/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silo S8</td>
<td>S8</td>
<td>0.24</td>
<td>0.15</td>
<td>0.15</td>
</tr>
<tr>
<td>Silo S9</td>
<td>S9</td>
<td>0.24</td>
<td>0.15</td>
<td>0.15</td>
</tr>
<tr>
<td>Pneumatic Transport System S10</td>
<td>S10</td>
<td>0.24</td>
<td>0.15</td>
<td>0.15</td>
</tr>
<tr>
<td>Bin S11</td>
<td>S11</td>
<td>0.24</td>
<td>0.15</td>
<td>0.15</td>
</tr>
</tbody>
</table>

(b) The throughput for blowstills BS1, BS2, and BS3 shall not exceed 90,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

(c) The total blowstill BS1, BS2, and BS3 emissions shall be limited as follows:

<table>
<thead>
<tr>
<th>Emission Units</th>
<th>PM (lb/ton)</th>
<th>PM10 (lb/ton)</th>
<th>PM2.5 (lb/ton)</th>
<th>CO (lb/ton)</th>
<th>VOC (lb/ton)</th>
<th>Total HAPs (lb/ton)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BS1, BS2, and BS3</td>
<td>0.84</td>
<td>0.84</td>
<td>0.84</td>
<td>0.66</td>
<td>0.170</td>
<td>0.16</td>
</tr>
</tbody>
</table>

Compliance with these limits, combined with the potential to emit PM, PM10, PM2.5, VOC and CO from all other emission units at this source, shall limit the source-wide total potential to emit of PM, PM10, PM2.5, VOC and CO to less than one-hundred (100) tons per twelve (12) consecutive month period, each, and shall render the requirements of 326 IAC 2-7 (Part 70 Permits) and 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

(d) (1) The maximum throughput for shingle line shall not exceed 110,000 tons of Asphalt per twelve (12) consecutive month period with compliance determined at the end of each month.

(2) Hexane emissions shall not exceed 0.082 pounds per ton of Asphalt.

Compliance with these limits, combined with the potential to emit total HAPs and single HAP emissions from all other emission units at this source, shall limit the source-wide total potential to emit of total HAPs to less than twenty-five (25) tons per twelve (12) consecutive month period, single HAP emissions to less than ten (10) tons per twelve (12) consecutive month period, and shall render the requirements of 326 IAC 2-7 (Part 70 Permits), and 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP)) not applicable, and this source is an area source of HAP emissions under Section 112 of the Clean Air Act (CAA).
D.1.2 PSD Minor Limits [326 IAC 2-2]

In order to render the requirements of 326 IAC 2-2 (PSD) not applicable, the Permittee shall comply with the following:

(a) The shingle and modified bitumen filler handling operations shall be limited as follows:

<table>
<thead>
<tr>
<th>Emission Unit(s)</th>
<th>Stack ID</th>
<th>PM Limit (lb/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silo S8</td>
<td>S8</td>
<td>0.24</td>
</tr>
<tr>
<td>Silo S9</td>
<td>S9</td>
<td>0.24</td>
</tr>
<tr>
<td>Pneumatic Transport System S10</td>
<td>S10</td>
<td>0.24</td>
</tr>
<tr>
<td>Bin S11</td>
<td>S11</td>
<td>0.24</td>
</tr>
</tbody>
</table>

(b) The asphalt blowing operation shall be limited as follows:

(1) The asphalt throughput for blowstills BS1 and BS3 shall not exceed 90,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

(2) The total blowstill BS1 and BS3 emissions shall be limited as follows:

<table>
<thead>
<tr>
<th>Emission Units</th>
<th>PM Limit (lb/ton of asphalt)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BS1 and BS3</td>
<td>0.30</td>
</tr>
</tbody>
</table>

Compliance with these limits, combined with PTE from other emission units, shall limit the total source-wide PM emissions to less than 250 tons per twelve (12) consecutive month period and render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

D.1.3 FESOP and PSD Minor Limits [326 IAC 2-8-4] [326 IAC 2-2]

Pursuant to 326 IAC 2-8-4 (FESOP) and in order to render the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-7 (Part 70 Permits) not applicable, the Permittee shall comply with the following:

(a) The modified bitumen roofing production line shall be limited as follows:

(1) \( \text{PM}_{10} \) emissions from the modified bitumen roofing coater shall not exceed 0.12 pounds per ton of roofing produced.

(2) \( \text{PM}_{2.5} \) emissions from the modified bitumen roofing coater shall not exceed 0.12 pounds per ton of roofing produced.

(3) \( \text{PM}_{10} \) emissions from the modified bitumen roofing granule application process shall not exceed 0.015 pounds per ton of roofing produced.

(4) \( \text{PM}_{2.5} \) emissions from the modified bitumen roofing granule application process shall not exceed 0.015 pounds per ton of roofing produced.

(b) The shingle and modified bitumen filler handling operations shall be limited as follows:
### Emission Limitations

**Table: Emission Units**

<table>
<thead>
<tr>
<th>Emission Unit(s)</th>
<th>Stack ID</th>
<th>( PM_{10} ) Limit (lb/hr)</th>
<th>( PM_{2.5} ) Limit (lb/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silo S8</td>
<td>S8</td>
<td>0.15</td>
<td>0.15</td>
</tr>
<tr>
<td>Silo S9</td>
<td>S9</td>
<td>0.15</td>
<td>0.15</td>
</tr>
<tr>
<td>Pneumatic Transport System S10</td>
<td>S10</td>
<td>0.15</td>
<td>0.15</td>
</tr>
<tr>
<td>Bin S11</td>
<td>S11</td>
<td>0.15</td>
<td>0.15</td>
</tr>
</tbody>
</table>

(c) The asphalt blowing operation shall be limited as follows:

1. The asphalt throughput for blowstills BS1 and BS3 shall not exceed 90,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

2. The total blowstill BS1 and BS3 emissions shall be limited as follows:

<table>
<thead>
<tr>
<th>Emission Units</th>
<th>( PM_{10} ) (lb/ton)</th>
<th>( PM_{2.5} ) (lb/ton)</th>
<th>VOC (lb/ton)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BS1 and BS3</td>
<td>0.30</td>
<td>0.30</td>
<td>0.17</td>
</tr>
</tbody>
</table>

(d) The shingle and roll roofing production line shall be limited as follows:

1. The asphalt throughput for the shingle and roll roofing production line shall not exceed 110,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

2. \( PM_{10} \) emissions from the shingle and roll roofing coater shall not exceed 0.12 pounds per ton of roofing produced.

3. \( PM_{2.5} \) emissions from the shingle and roll roofing coater shall not exceed 0.12 pounds per ton of roofing produced.

4. \( PM_{10} \) emissions from the shingle and roll roofing granule application process shall not exceed 0.015 pounds per ton of roofing produced.

5. \( PM_{2.5} \) emissions from the shingle and roll roofing granule application process shall not exceed 0.015 pounds per ton of roofing produced.

Compliance with these limits, combined with the potential to emit \( PM_{10} \), \( PM_{2.5} \), and VOC from all other emission units at this source, shall limit the source-wide total potential to emit of \( PM_{10} \), \( PM_{2.5} \), and VOC to less than one-hundred (100) tons per twelve (12) consecutive month period, each, and shall render the requirements of 326 IAC 2-7 (Part 70 Permits) and 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

### D.1.4 Hazardous Air Pollutants (HAP) Limitations

Pursuant to 326 IAC 2-8-4 (FESOP), and in order to render the source an area source of HAP emissions under Section 112 of the Clean Air Act (CAA), and render the requirements of 326 IAC 2-7 (Part 70 Permits) not applicable, the Permittee shall comply with the following:

(a) The asphalt blowing operation shall be limited as follows:

1. The throughput for blowstills BS1 and BS3 shall not exceed 90,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.
Ethylbenzene emissions from the asphalt blowing process shall not exceed 0.0065 lb/ton of asphalt.

The shingle and roll roofing production line shall be limited as follows:

1. The maximum throughput for the shingle and roll roofing coater shall not exceed 110,000 tons of asphalt per twelve (12) consecutive month period with compliance determined at the end of each month.

2. n-Hexane emissions shall not exceed 0.082 pounds per ton of asphalt.

Compliance with these limits, combined with the potential to emit HAP from all other emission units at this source, shall limit the source-wide potential to emit each single HAP to less than 10 tons per twelve (12) consecutive month period and the source-wide potential to emit combined HAPs to less than 25 tons per twelve (12) consecutive month period, and shall render the source an area source of HAP emissions under Section 112 of the Clean Air Act (CAA) and shall render the requirements of 326 IAC 2-7 (Part 70 Permits) not applicable.

D.1.35 Particulate Emission Limitations [326 IAC 6-3-2]
Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), particulate emissions rate from the following operations shall be limited as follows:

<table>
<thead>
<tr>
<th>Process Description</th>
<th>Emissions Unit</th>
<th>Process Weight Rate (tons/hr)</th>
<th>E Allowable PM Emissions (326 IAC 6-3-2 Limit) (lbs/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>...</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

\[
E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour and } P = \text{process weight rate in tons per hour}
\]

Interpolation and extrapolation of the data for the process weight rate in excess of sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

\[
E = 55.0 P^{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour and } P = \text{process weight rate in tons per hour}
\]

D.1.46 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

Compliance Determination Requirements [326 IAC 2-8-4(1)]

D.1.5 Particulate, VOC, and CO Control

In order to assure compliance with Conditions D.1.1, D.1.2, and D.1.3, the baghouse and afterburners for PM, PM10, PM2.5, VOC, and CO shall be in operation and control emissions from the shingle unloading, bitumen unloading operation, silos S8, S9, S10, and S11, pneumatic transport system S10, storage bin S11, and blowstills BS1, BS2, BS3 at all times the shingle unloading, bitumen unloading operation and silos S8 and S9, pneumatic transport system S10, storage bin S11, and blowstills BS1, BS2, BS3 are in operation.
In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

**D.1.7 Particulate Control**

(a) In order to assure compliance with Conditions D.1.2(a) and D.1.3(b), the baghouses for particulate control shall be in operation and control emissions from the storage silos S8 and S9, pneumatic transport system S10, and storage bin S11 at all times the storage silos S8 and S9, pneumatic transport system S10, and storage bin S11 are in operation.

(b) In order to assure compliance with Condition D.1.3(a)(1) and (2), the mist collector for particulate control shall be in operation and control emissions from the modified bitumen roofing line coater at all times the modified bitumen roofing line coater is in operation.

(c) In order to assure compliance with Condition D.1.3(a)(3) and (4), the dust collector for particulate control shall be in operation and control emissions from the modified bitumen roofing granule application process at all times the modified bitumen roofing granule application process is in operation.

(d) In order to assure compliance with Condition D.1.3(d)(1) and (2), the mist collector for particulate control shall be in operation and control emissions from the shingle and roll roofing line coater at all times the shingle and roll roofing line coater is in operation.

(e) In order to assure compliance with Condition D.1.3(d)(3) and (4), the dust collector for particulate control shall be in operation and control emissions from the shingle and roll roofing granule application process at all times the shingle and roll roofing granule application process is in operation.

In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

**D.1.8 Asphalt Blowing Process Emissions Control**

In order to assure compliance with Conditions D.1.1, D.1.2(b), D.1.3(c), and D.1.4, the boiler (Boiler 1 of Boiler 2) for particulate, VOC, CO, and HAP control shall be in operation and control emissions from the asphalt blowing process at all times the asphalt blowing process is in operation.

**D.1.69 Testing Requirements [326 IAC 2-1.1-11]**

(a) In order to demonstrate compliance with Conditions D.1.2(b)(2) and D.1.3(c)(2), the Permittee shall perform PM, PM₁₀, and PM₂.₅ testing of **Boiler 2, controlling** the asphalt blowing operation (BS₁, BS₂, and BS₃) utilizing methods as approved by the Commissioner at least once every five (5) years from the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Testing shall be performed using the particulate source (blowstill) that was not used in the most recent test that demonstrated compliance with the limits in Condition D.1.2(b)(2) and/or Condition D.1.3(c)(2). Section C - Performance Testing contains the Permittee’s obligation with
regard to the performance testing required by this condition. PM$_{10}$ and PM$_{2.5}$ includes filterable and condensable PM.

(b) Not later than 180 days after the startup of Boiler 1 as a control device for the asphalt blowing process (BS1 and/or BS3), and to assure compliance with Conditions D.1.2(b)(2) and D.1.3(c)(2), the Permittee shall perform PM, PM$_{10}$, and PM$_{2.5}$ testing of Boiler 1 controlling the asphalt blowing operation BS1 and BS3 utilizing methods approved by the commissioner at least once every five (5) years from the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Testing shall be performed using the particulate source (blowstill) that was not used in the most recent test that demonstrated compliance with the limits in Condition D.1.2(b)(2) and/or Condition D.1.3(c)(2). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition. PM$_{10}$ and PM$_{2.5}$ includes filterable and condensable PM.

(bc) Not later than 180 days after the issuance date of this permit, Permit No F129-38119-00011, and to assure compliance with Conditions D.1.2(a) and D.1.3(b), the Permittee shall perform PM, PM$_{10}$, and PM$_{2.5}$ testing of the storage bin S11 utilizing methods approved by the commissioner at least once every five (5) years from the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition. PM$_{10}$ and PM$_{2.5}$ includes filterable and condensable PM.

(cd) To assure compliance with Conditions D.1.1 and D.1.3(c)(2) Not later than 180 days after the issuance date of this permit, Permit No F129-38119-00011, the Permittee shall perform VOC and CO testing of Boiler 2, controlling the asphalt blowing operation (BS1, BS2, and BS3) utilizing methods approved by the commissioner at least once every five (5) years from the date of the most recent valid compliance demonstration. VOC testing shall include emission rate and overall control efficiency. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Testing shall be performed using the VOC source (blowstill) that was not used in the most recent test that demonstrated compliance with the limits in Condition D.1.1 and/or Condition D.1.3(c). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.

(e) Not later than 180 days after the startup of Boiler 1 as a control device for the asphalt blowing process (BS1 and/or BS3), and to assure compliance with Conditions D.1.1 and D.1.3(c)(2), the Permittee shall perform VOC testing of Boiler 1 controlling the asphalt blowing operation BS1 and BS3 utilizing methods approved by the commissioner at least once every five (5) years from the date of the most recent valid compliance demonstration. VOC testing shall include emission rate and overall control efficiency. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Testing shall be performed using the VOC source (blowstill) that was not used in the most recent test that demonstrated compliance with the limits in Condition D.1.1 and/or Condition D.1.3(c). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.

(f) Not later than 180 days after a stack test of a boiler (Boiler 1 or 2) controlling emissions from the asphalt blowing process (BS1 or BS3) with a VOC result greater than or equal to 0.005 lb/ton of asphalt, and to assure compliance with
Condition D.1.4(a)(2), the Permittee shall perform ethylbenzene testing of a boiler (Boiler 1 or 2) controlling emissions from the asphalt blowing operation (BS1 or BS3) utilizing methods approved by the commissioner. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures).

Section C - Performance Testing contains the Permittee’s obligation with regard to the performance testing required by this condition.

(g) Not later than 180 days after the issuance date of this permit, Permit No 129-41984-00011, and to assure compliance with Condition D.1.3(a)(1) and (2), the Permittee shall perform PM10 and PM2.5 testing of the modified bitumen roofing coater utilizing methods approved by the commissioner at least once every five (5) years from the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C – Performance Testing contains the Permittee’s obligation with regard to the performance testing required by this condition.

(h) Not later than 180 days after the issuance date of this permit, Permit No 129-41984-00011, and to assure compliance with Condition D.1.3(a)(3) and (4), the Permittee shall perform PM10 and PM2.5 testing of the modified bitumen granule application process utilizing methods approved by the commissioner at least once every five (5) years from the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C – Performance Testing contains the Permittee’s obligation with regard to the performance testing required by this condition.

(i) Not later than 180 days after the issuance date of this permit, Permit No 129-41984-00011, and to assure compliance with Condition D.1.3(d)(1) and (2), the Permittee shall perform PM10 and PM2.5 testing of the shingle and roll roofing coater utilizing methods approved by the commissioner at least once every five (5) years from the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C – Performance Testing contains the Permittee’s obligation with regard to the performance testing required by this condition.

(j) Not later than 180 days after the issuance date of this permit, Permit No 129-41984-00011, and to assure compliance with Condition D.1.3(d)(3) and (4), the Permittee shall perform PM10 and PM2.5 testing of the shingle and roll roofing granule application process utilizing methods approved by the commissioner at least once every five (5) years from the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C – Performance Testing contains the Permittee’s obligation with regard to the performance testing required by this condition.

(k) Not later than 180 days after the issuance date of this permit, Permit No 129-41984-00011, and to assure compliance with Condition D.1.4(b)(2) the Permittee shall perform n-hexane testing of the shingle and roll roofing coater utilizing methods approved by the commissioner at least once every five (5) years from the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C – Performance Testing contains the Permittee’s obligation with regard to the performance testing required by this condition.

Compliance Monitoring Requirements [326 IAC 2-8-4(1)] [326 IAC 2-8-5(a)(1)]
D.1.710 Visible Emissions Notations

(a) Visible emission notations of the boiler 1 and boiler 2 stacks, S8, S9, S10, S11, and S32 exhausts shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

(b) Visible emission notations of the boiler controlling emissions from the asphalt blowing process stack shall be performed once per day during normal daylight operations while the asphalt blowing process is in operation. A trained employee shall record whether emissions are normal or abnormal.

D.1.811 Boiler Temperature

(a) A continuous monitoring system shall be calibrated, maintained, and operated on the Boiler 1 and Boiler 2 for measuring operating temperature when controlling emissions from the asphalt blowing process. For the purpose of this condition, continuous means no less often than once per fifteen (15) minutes. The output of this system shall be recorded as 3-hour average.

(b) The Permittee shall determine the 3-hour average temperature from the latest valid stack test that demonstrates compliance with limits in Conditions D.1.1 and D.1.23(c).

D.1.912 Broken or Failed Bag Detection

(a) ...

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

D.1.4013 Record Keeping Requirements

(a) ...

(b) To document the compliance status with Condition D.1.2(b), D.1.3(c)(1), and D.1.4(a)(1), the Permittee shall maintain monthly records of the throughput for blowstills BS1, BS2, and BS3.

(c) To document the compliance status with Condition D.1.23 (d)(1) and D.1.4(b)(1), the Permittee shall maintain monthly records of the throughput for shingles and rolls production line.

(d) To document the compliance status with Condition D.1.710, the Permittee shall maintain records of daily visible emission notations of the baghouse(s) stack exhausts. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).

(e) To document the compliance status with Condition D.1.811, the Permittee shall maintain continuous temperature records for Boiler 1 and Boiler 2 while the asphalt blowing process is in operation and the 3-hour average temperature used to demonstrate compliance during the most recent compliant stack test.
(f) Pursuant to 326 IAC 7-2-1(c)(3), the Permittee shall maintain the calendar month average sulfur content, heat content, fuel consumption, and sulfur dioxide emission rate in pounds per MMBtu for the asphalt blowing processes. This information shall be submitted upon request.

(gf) ...

D.1.11 14 Reporting Requirements

A quarterly summary of the information to document the compliance status with Conditions D.1.1(d), D.1.2(b) and D1.23(d)(1) shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(e) ...

(f) One (1) natural gas-fired boiler, identified as boiler No. 2, with a maximum heat input capacity of 29.15 MMBtu/hr, constructed in 1972, and exhausting through stack S32. Boiler No. 2 serves as the primary unit.

(g) One (1) natural gas-fired combustion unit, identified as S36 flux heater, constructed in 1972, approved in 2019 for modification, with a maximum heat input capacity of 7.0 MMBtu/hr, with a spare unit fired by No. 6 fuel oil (standby), and exhausting through Stacks S35 and S36.

Insignificant Activities:

(a) Space heaters, process heaters, heat treat furnaces, or boilers using the following fuels:

(a1) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour.

(A) One (1) natural gas fired combustion unit, identified as coating heater, constructed in 1972, modification permitted in 2012, with a maximum heat input capacity of 4.5 MMBtu/hr, exhausting through Stack S34.

(B) One (1) natural gas-fired combustion unit, identified as mod-bit hot oil heater, permitted in 2006, approved in 2019 for modification, with a maximum heat input capacity of 5.2 MMBtu/hr, using No. 6 fuel as a backup fuel, and exhausting through Stack S2.

(C) One (1) natural gas-fired combustion unit, identified as filler heater hot oil heater, constructed in 1987, approved in 2019 for modification, with a maximum heat input capacity of 6.0 MMBtu/hr, using No. 6 fuel oil as a backup fuel, and exhausting through Stack S4.

(D) One (1) natural gas-fired combustion unit, identified as liquid asphalt storage heater, permitted in 2006, with a maximum heat input capacity of 3.0 MMBtu/hr, exhausting through Stack S1.
One (1) natural gas-fired combustion unit, identified as thermal fluid heater, with a maximum heat input capacity of 5.0 MMBtu/hr, approved for construction in 2007.

(E)

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.2.1 FESOP and PDS Minor Limits [326 IAC 2-8-4][326 IAC 2-2]

Pursuant to 326 IAC 2-8-4 (FESOP) and in order to render the requirements of 326 IAC 2-2 (PSD) not applicable, the Permittee shall comply with the following:

(a) The total No. 6 fuel oil usage in S-36 flux heater back up, mod-bit hot oil heater, filler hot oil heater, and liquid asphalt storage heater shall be limited to 1,504,800 U.S. gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.

(b) The sulfur content of the No. 6 fuel oil used in S-36 flux heater back up, mod-bit hot oil heater, filler hot oil heater, and liquid asphalt storage heater shall not exceed 0.8 percent (%).

(c) PM10 emissions from S-36 flux heater back up, mod-bit hot oil heater, filler hot oil heater, and liquid asphalt storage heater shall not exceed 8.0 lbs/kgal.

(d) PM2.5 emissions from S-36 flux heater back up, mod-bit hot oil heater, filler hot oil heater, and liquid asphalt storage heater shall not exceed 3.9 lbs/kgal.

(e) NOx emissions from S-36 flux heater back up, mod-bit hot oil heater, filler hot oil heater, and liquid asphalt storage heater shall not exceed 55.0 lbs/kgal.

Compliance with these limits, combined with the potential to emit PM10, PM2.5, SO2, and NOx from all other emission units at this source, shall limit the source-wide total potential to emit of PM10, PM2.5, SO2, and NOx to less than one-hundred (100) tons per twelve (12) consecutive month period, each, and shall render the requirements of 326 IAC 2-7 (Part 70 Permits) and 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

D.2.2 Particulate [326 IAC 6-2-3]

Pursuant to 326 IAC 6-2-3 (Particulate Emission Limitations for Sources of Indirect Heating), the PM emissions from the following units shall be limited to Pt pounds per MMBtu heat input, as follows:

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Pt (lb/MMBtu)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiler 1</td>
<td>0.8</td>
</tr>
<tr>
<td>Boiler 2</td>
<td>0.8</td>
</tr>
<tr>
<td>Flux heater</td>
<td>0.8</td>
</tr>
<tr>
<td>Coating heater</td>
<td>0.8</td>
</tr>
</tbody>
</table>

D.2.2 Particulate [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating), the PM emissions from the following units shall be limited to Pt pounds per MMBtu heat input, as follows:

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Pt (lb/MMBtu)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mod-bit hot oil heater</td>
<td>0.34</td>
</tr>
<tr>
<td>Filler heater</td>
<td>0.33</td>
</tr>
<tr>
<td>Emission Unit</td>
<td>Pt (lb/MMBtu)</td>
</tr>
<tr>
<td>----------------------------------</td>
<td>---------------</td>
</tr>
<tr>
<td>Liquid asphalt storage heater</td>
<td>0.33</td>
</tr>
<tr>
<td>Thermal fluid heater</td>
<td>0.33</td>
</tr>
</tbody>
</table>

D.2.3 Sulfur Dioxide (SO2) Emission Limits [326 IAC 7-1.1-2][326 IAC 7-2-1]

Pursuant to 326 IAC 7-1.1-2(a)(2) (SO2 Emissions Limitations), the SO2 emissions from Boiler No. 1 and flux heater back up shall not exceed one and six-tenths (1.6) pound per MMBtu heat input when combusting residual oil.

D.2.43 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

Compliance Determination Requirements [326 IAC 2-8-4(1)]

D.2.5 Sulfur Dioxide Emissions and Sulfur Content

In order to comply with Conditions D.2.1(b) and D.2.3, the Permittee shall comply with the following:

(a) Pursuant to 326 IAC 7-2-1(d)(2), compliance shall be determined using a calendar month average sulfur dioxide emission rate in pounds per MMBtu.

(b) Compliance shall be determined using one of the following options:

(i) Pursuant to 326 IAC 7-2-1(h)(3) and (4), the Permittee shall demonstrate compliance by:

(1) Providing vendor analysis of fuel delivered, if accompanied by a vendor certification, in accordance with 326 IAC 3-76 or;

(2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19, accordance with 326 IAC 3-6.

(A) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and

(B) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.

(ii) Pursuant to 326 IAC 7-2-1(h)(1), compliance may also be determined by conducting a stack test for sulfur dioxide emissions from Boiler No. 1 S-36 flux heater back up, mod-bit hot oil heater, filler hot oil heater, and liquid asphalt storage heater using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

A determination of noncompliance pursuant to any of the methods specified Condition D.2.5(b)(i) or (ii) above shall not be refuted by evidence of compliance pursuant to the other method.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

D.2.6 Record Keeping Requirements

(a) To document the compliance status with Condition D.2.1(a), the Permittee shall maintain monthly records of the combined usage of No. 6 fuel oil.

(b) To document the compliance status with Conditions D.2.1(b) and D.2.3, the Permittee shall maintain records in accordance with (1) through (6) below. Records maintained for
(1) through (6) shall be taken monthly and shall be complete and sufficient to establish compliance with the SO₂ emission limit established in Conditions D.2.1(b) and D.2.3.  

(1) Calendar dates covered in the compliance determination period;  

(2) Actual fuel oil usage since last compliance determination period and equivalent calculated sulfur dioxide emissions;  

(3) To certify compliance when burning natural gas only, the Permittee shall maintain records of fuel used.  

(4) If the fuel vendor certification is used to demonstrate compliance, the following, as a minimum, shall be maintained:  

(i) Fuel supplier certifications;  

(ii) The name of the fuel vendor; and  

(iii) A statement from the fuel vendor that certifies the sulfur content of the fuel oil.  

(5) If oil sampling is used to determine the sulfur content of the oil and to demonstrate compliance, analysis of the oil sample shall be maintained.  

(6) If conducting a stack test for sulfur dioxide emissions is used to demonstrate compliance, the stack test results, as a minimum, shall be maintained.  

(c) Section C - General Record Keeping Requirements contains the Permittee's obligation with regard to the records required by this condition.  

D.2.7 Reporting Requirements  
A quarterly summary of the information to document the compliance status with Condition D.2.1(a) shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).  

...  

SECTION E.1 NSPS  

Emissions Unit Description:  

(a) One (1) modified bitumen production line, with a maximum production rate of 13.5 tons per hour, constructed in 1986, with a mist collector for particulate control, exhausting through Stack S3, and consisting of the following:  

(1) One (1) impregnator (saturator and coating tank).  

[Under 40 CFR 63, Subpart AAAAAAA, this is an affected facility.]  
Under the NSPS, 40 CFR 60, Subpart UU, the modified bitumen production line coater is an affected facility.  

Under the NESHAP, 40 CFR 63, Subpart AAAAAAA, the modified bitumen production line coater is part of an existing affected source.
| (2) | One (1) dry felt looper. |
| (3) | One (1) cooling section. |
| (4) | One (1) granular drop section, **granule application process**, with a maximum capacity of 10.0 tons of **roofing granules** per hour, **controlled by a dust collector**. |

(2) **Under 40 CFR Part 60, Subpart UU, these are affected facilities.**

(b) **Storage and handling of bulk material operations, consisting of the following:**

(3) **Modified bitumen granules handling operation, constructed in 1986, with a maximum throughput of 10.0 tons per hour, and consisting of the following:**

(A) Two (2) storage silos, identified as S27 and S28, constructed in 1986, with emissions controlled by a baghouse (S29), and exhausting to stack S30.

(B) One (1) totally enclosed pneumatic transport system, constructed in 1986, identified as modified bitumen / granules transport system, with emissions uncontrolled. Only one of the two silos can be unloaded at a time.

(C) One (1) storage bin, identified as 29, constructed in 1986, with emissions controlled by a baghouse, and exhausting to stack S30.

(3) **Under 40 CFR Part 60, Subpart UU, this is considered an affected facility.**

Under the NSPS, 40 CFR Part 60, Subpart UU, the modified bitumen granules handling operation is an affected facility.

(4) **Shingle and modified bitumen filler (limestone) handling operations, constructed in 1986, with a maximum throughput of 32.00 tons per hour, and consisting of the following:**

(A) Two (2) pneumatic truck unloading operation, identified as shingle unloading and bitumen unloading, constructed in 1986, with emissions uncontrolled.

(B) Two (2) storage silos, identified as S8 and S9, constructed in 1986, with emissions controlled by baghouse S10, constructed in 1986, and exhausting to stack S8 and S9.

(C) One (1) pneumatic transport system, identified as S10, constructed in 1986, with emissions controlled by a baghouse, and exhausting to stack S10. Only one of the two silos can be unloaded at a time.

(D) One (1) storage bin, identified as S11, constructed in 1986, with emissions controlled by a baghouse, and exhausting to stack S11.

(4) **Under 40 CFR Part 60, Subpart UU, this is considered an affected facility.**

Under the NSPS, 40 CFR Part 60, Subpart UU, the shingle and modified bitumen filler (limestone) handling operations are affected facilities.

(5) **Talc handling operations, constructed in 1986, with a maximum throughput of 0.10 tons per hour, and consisting of the following:**

(A) One (1) totally enclosed pneumatic truck unloading operation, constructed in 1986, identified as talc unloading, with emissions controlled by baghouse S25, and exhausting to stack S25.

(B) One (1) storage silo, identified as S25, constructed in 1986, with emissions controlled by baghouse S25, and exhausting to stack S25.

(C) One (1) pneumatic transport system, identified as S18, constructed in 1986, with emissions controlled by baghouse S18, and exhausting to stack S18.

(D) One (1) storage bin, identified as S18, constructed in 1986, with emissions controlled by baghouse S18, and exhausting to stack S18.

(5) **Under 40 CFR Part 60, Subpart UU, this is considered an affected facility.**

Under the NSPS, 40 CFR Part 60, Subpart UU, the talc handling operations are affected facilities.
Under the NSPS, 40 CFR Part 60, Subpart UU, the shingle and modified bitumen filler (limestone) handling operations are affected facilities.

(7) Shingle and modified bitumen sand handling operations, constructed in 1986, with a maximum throughput of 4.63 tons per hour, and consisting of the following:

(A) One (1) pneumatic truck unloading operation, identified as sand unloading, with emissions controlled by baghouse S26, constructed in 1986, and exhausting to stack S26.

(B) One (1) storage silo, identified as S26, constructed in 1986, with emissions controlled by baghouse S26, and exhausting to stack S26.

(C) One (1) pneumatic transport system, identified as S17, constructed in 1986, with emissions controlled by baghouse S17, and exhausting to stack S17.

(D) One (1) storage bin, identified as S17, constructed in 1986, with emissions controlled by baghouse S17, and exhausting to stack S17.

Under the NSPS, 40 CFR Part 60, Subpart UU, blowstill BS3 is an affected facility.

Only one (1) blowstill can operate at a time because there are only enough blowers installed to charge one at a time.

Under the NESHAP, 40 CFR 63, Subpart AAAAAA, the blowstills, BS1 and BS3, are part of an existing affected source.

Insignificant Activities:

(b) Two (2) storage tanks, identified as T-8 (self-seal asphalt) and T-16 (self-seal asphalt slate line), each constructed in 1989 and each with a maximum storage capacity of 14,000 gallons.

[Under 40 CFR Part 60, Subpart UU, these are considered affected facilities.]
Under the NSPS, 40 CFR Part 60, Subpart UU, tanks T-8 and T-16 are affected facilities.

(c) Two (2) storage tanks, identified as T-20 (liquid APP plasticizer) and T-18 (holding tank package asphalt), constructed in 1986 and 1985, respectively, and each with a maximum storage capacity of 30,000 gallons.

[Under 40 CFR Part 60, Subpart UU, these are considered affected facilities.]

Under the NSPS, 40 CFR Part 60, Subpart UU, tanks T-20 and T-18 are affected facilities.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

Compliance Determination Requirements [326 IAC 2-8-4(1)]

E.1.4 Testing Requirements [326 IAC 2-1.1-11] [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

In order to demonstrate compliance with Condition E.1.2, the Permittee shall perform the testing required under 40 CFR 60, Subpart UU, excluding opacity testing for mineral storage and handling facilities, utilizing methods as approved by the Commissioner, at least once every five (5) years from the date of the most recent valid compliance demonstration. Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.

SECTION E.2 NSPS

Emissions Unit Description:

Insignificant Activities

(d) Emergency generators as follows: Diesel generators not exceeding one thousand six hundred (1,600) horsepower. Activities associated with emergencies consisting of:

(2) One (1) diesel-fired emergency generator, identified as S-47, with a maximum rated capacity of 755 hp, constructed in 2010.

[Under 40 CFR 60, Subpart IIII, this is an affected facility.]

[Under 40 CFR 63, Subpart ZZZZ, this is a new affected source.]

(1) Emergency generators as follows:

(A) One (1) diesel-fired emergency generator, identified as S-47, with a maximum rated capacity of 755 hp, constructed in 2010.

Under the NSPS, 40 CFR 60, Subpart IIII, emergency generator S-47 is an affected facility.

Under the NESHAP, 40 CFR 63, Subpart ZZZZ, emergency generator S-47 is a new affected source.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)
E.2.2 Stationary Compression Ignition Internal Combustion Engines NSPS [326 IAC 12] [40 CFR Part 60, Subpart IIII]

The Permittee shall comply with the following provisions of 40 CFR Part 60, Subpart IIII (included as Attachment C to the operating permit), which are incorporated by reference as 326 IAC 12, for the emission unit(s) listed above:

(1) ...
(7) 40 CFR 60.4211 (a), (b), (c), (f)(1), (f)(2)(i), (g)(3)
(8) ...

Compliance Determination Requirements [326 IAC 2-8-4(1)]

E.2.3 Testing Requirements [326 IAC 2-1.1-11] [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

In order to demonstrate compliance with Condition E.2.2, the Permittee shall perform the testing required under 40 CFR 60, Subpart IIII, utilizing methods as approved by the Commissioner, at least once every five (5) years from the date of the most recent valid compliance demonstration. Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.

...

SECTION E.3 NESHAP

Emissions Unit Description:

(a) One (1) modified bitumen production line, with a maximum production rate of 13.5 tons per hour, constructed in 1986, with a mist collector for particulate control, exhausting through Stack S3, and consisting of the following:

(1) One (1) impregnator (saturator and coating tank).

[Under 40 CFR 63, Subpart AAAAAAA, this is an affected facility.]

Under the NSPS, 40 CFR 60, Subpart UU, the modified bitumen production line coater is an affected facility.

Under the NESHAP, 40 CFR 63, Subpart AAAAAAA, the modified bitumen production line coater is part of an existing affected source.

(2) One (1) dry felt looper.
(3) One (1) cooling section.
(4) One (1) granule application process, granular drop section, with a maximum capacity of 10.0 tons of roofing granules per hour, controlled by a dust collector.

[Under 40 CFR Part 60, Subpart UU, these are affected facilities.]

(c) One (1) asphalt blowing operation, consisting of three (3) blowstills, identified as BS1, BS2, and BS3, each with a maximum blowing rate of 40,000 pounds per hour with emissions controlled by two (2) afterburners (boilers No. 1 and No. 2), and exhausting through Stack S32. Construction of BS1 and BS2 commenced in December 1972 and BS3 was constructed in 2006. Only one (1) blowstill can operate at a time because there are only enough blowers constructed to charge one at a time.

[Under 40 CFR Part 60, Subpart UU, blowstill 3 is considered an affected facility.]

[Under 40 CFR 63, Subpart AAAAAA, the three blowstills are affected facilities.]

One (1) asphalt blowing operation, approved in 2019 for modification, with a bottlenecked capacity of 40,000 pounds of asphalt per hour, consisting of:
One (1) blowstill, identified as BS1, constructed in 1972, with a maximum capacity of 40,000 pounds of asphalt per hour, with emissions controlled by one of two (2) afterburners (Boiler No. 1 or Boiler No. 2), exhausting though Stack S32.

One (1) blowstill, identified as BS3, constructed in 2006, with a maximum capacity of 40,000 pounds of asphalt per hour, with emissions controlled by one of two (2) afterburners (Boiler No. 1 or Boiler No. 2), exhausting though Stack S32.

Under the NSPS, 40 CFR Part 60, Subpart UU, blowstill BS3 is an affected facility.

Only one (1) blowstill can operate at a time because there are only enough blowers installed to charge one at a time.

Under the NESHAP, 40 CFR 63, Subpart AAAAAA, the blowstills, BS1 and BS3, are part of an existing affected source.

One (1) shingles and rolls production line, constructed in 1972, with a maximum production rate of 75 tons per hour, constructed in 1972, with a mist collector for particulate control, and exhausting through stacks S5 and S7, consisting of the following:

One (1) shingle coater dip pan, identified as S5, constructed in 1972.

[Under the NESHAP, 40 CFR 63, Subpart AAAAAA, the shingle coater dip pan is an existing affected facility.]

One (1) dry felt looper, constructed in 1972.

One (1) granule granular and sand application process, with a maximum capacity of 41.29 tons of sand and granules per hour, controlled by a dust collector, exhausting to stack S6 per hour, constructed in 1972.

One (1) self-seal application process, with a maximum capacity of 1.50 tons/hr, constructed in 1972.

One (1) cooling section, constructed in 1972.

One (1) finished product looper, constructed in 1972.

One (1) laminator, identified as S7 with a maximum capacity of 2,500 lbs/hr, constructed in 1972.

One (1) shingle product cutting operation, constructed in 1972.

One (1) shingle product packaging operation, constructed in 1972.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-8-4(1)]

E.3.3 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan is required for the shingles and rolls production line and any control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

Compliance Determination Requirements [326 IAC 2-8-4(1)]

E.3.43 Testing Requirements [326 IAC 2-1.1-11] [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
Emissions Unit Description:

Insignificant Activities:

(d) Emergency generators as follows: Diesel generators not exceeding one thousand six hundred (1,600) horsepower. Activities associated with emergencies consisting of:

(1) Emergency generators as follows:

(A) One (1) diesel-fired emergency generator, identified as S-47, constructed in 2010, with a maximum rated capacity of 755 hp.

Under the NSPS, 40 CFR 60, Subpart III, emergency generator S-47 is an affected facility.

Under the NESHAP, 40 CFR 63, Subpart ZZZZ, emergency generator S-47 is a new affected source.

(2) Stationary fire pump engines as follows:

(4A) One (1) diesel-fired emergency fire pump, constructed in 1972, with a maximum capacity of 255 HP, constructed in 1972.

[Under 40 CFR 63, Subpart ZZZZ, this is an existing affected facility.]

Under the NESHAP, 40 CFR 63, Subpart ZZZZ, the emergency fire pump is an existing affected source.

(2) One (1) diesel-fired emergency generator, identified as S-47, with a maximum rated capacity of 755 hp, constructed in 2010.

[Under 40 CFR 60, Subpart III, this is an affected facility.]
[Under 40 CFR 63, Subpart ZZZZ, this is a new affected facility.]

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

...
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

Source Name:   ...

Limit:    **Asphalt throughput** shall not exceed 175,200 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

---

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

Source Name:   ...

Facility:    blowstills BS1, BS2, and BS3

Parameter:    asphalt throughput

Limit:    **The asphalt throughput for blowstills BS1 and BS3** shall not exceed 90,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

---

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

Source Name:   ...

Limit:    **The asphalt throughput for the shingle and roll roofing production line** shall not exceed 110,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

---

Source Name: Building Materials Manufacturing Corporation

Source Address: 901 Givens Road, Mount Vernon, Indiana 47620

FESOP Permit No.: F129-38119-00011

Facility: S-36 flux heater back up, mod-bit hot oil heater, filler hot oil heater, and liquid asphalt storage heater

Parameter: Total No. 6 fuel oil usage
Limit: shall be limited to 1,504,800 U.S. gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.

<table>
<thead>
<tr>
<th>Month</th>
<th>Column 1</th>
<th>Column 2</th>
<th>Column 1 + Column 2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>This Month (gallons)</td>
<td>Previous 11 Months (gallons)</td>
<td>12-Month Total (gallons)</td>
</tr>
</tbody>
</table>

☐ No deviation occurred in this quarter.
☐ Deviation/s occurred in this quarter.
Deviation has been reported on: ____________________________

Submitted by: _________________________________________
Title / Position: _________________________________________
Signature: _________________________________________
Date: _________________________________________
Phone: _________________________________________

Conclusion and Recommendation

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant. An application for the purposes of this review was received on September 6, 2019.
(a) If you have any questions regarding this permit, please contact Doug Logan, Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251, or by telephone at (317) 234-5328 or (800) 451-6027, and ask for Doug Logan or (317) 234-5328.

(b) A copy of the findings is available on the Internet at: http://www.in.gov/ai/appfiles/idem-caats/

(c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Air Permits page on the Internet at: http://www.in.gov/idem/airquality/2356.htm; and the Citizens' Guide to IDEM on the Internet at: http://www.in.gov/idem/6900.htm.
## Appendix A: Emission Calculations
### PTE Summary

**Company Name:** Building Materials Manufacturing Corporation  
**Source Address:** 901 Givens Road, Mount Vernon, IN 47620  
**FESOP SPR No.:** 129-41894-00011  
**Reviewer:** Doug Logan  
**Date:** 10/28/2019

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>PM</th>
<th>PM10</th>
<th>PM2.5</th>
<th>SO2</th>
<th>NOx</th>
<th>VOC</th>
<th>CO</th>
<th>H2S</th>
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<tbody>
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<td>40.09</td>
<td>40.09</td>
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<tr>
<td>Shingle and Modified Bitumen Sand Handling Operations</td>
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### Notes:
1. PM$_{2.5}$ listed is direct PM$_{2.5}$
2. Conservative estimate.
Appendix A: Emission Calculations

PTE Summary

Company Name: Building Materials Manufacturing Corporation
Source Address: 901 Givens Road, Mount Vernon, IN 47620
FESOP SPR No.: 129-41894-00011
Reviewer: Doug Logan
Date: 10/28/2019

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Total | 174.17 | 96.93 | 96.93 | 83.39 | 50.34 | 62.00 | 98.56 | 50.72 |

Notes:
1. The shaded cells indicate where limits are included.
2. PM$_{2.5}$ listed is direct PM$_{2.5}$
3. Conservative estimate.
## Emission Calculations

### HAP Summary

**Company Name:** Building Materials Manufacturing Corporation  
**Source Address:** 901 Givens Road, Mount Vernon, IN 47620  
**FESOP SPR No.:** 129-41894-00011  
**Reviewer:** Doug Logan  
**Date:** 10/28/2019

### Pollutant Emissions

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### Inorganics

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<th>Shingle and Rolls Production Line</th>
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<th>Fire Pump</th>
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**Total Uncontrolled Potential to Emit (tons/yr):**

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<tr>
<th>Pollutant</th>
<th>Modified Bitumen Production Line</th>
<th>Blowstills</th>
<th>Shingle and Rolls Production Line</th>
<th>NG Combustion Tanks</th>
<th>Fire Pump</th>
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<td>Polynuclear Aromatic Hydrocarbons (PAH)</td>
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<td>17.97</td>
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## Appendix A: Emission Calculations

**HAP Summary**

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<tr>
<th>Pollutant</th>
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<th>Tanks</th>
<th>Fire Pump</th>
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<th>Degreaser</th>
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**Notes:**
- Potentially to Emit After Issuance (tons/yr)
- Production Line
- Modified Bitumen
- Shingle and Rolls Production Line
- NG Combustion
- Tanks
- Fire Pump
- Emergency Generator
- Degreaser
- Total

---

**Notes:**
- Potentially to Emit After Issuance (tons/yr)
- Production Line
- Modified Bitumen
- Shingle and Rolls Production Line
- NG Combustion
- Tanks
- Fire Pump
- Emergency Generator
- Degreaser
- Total
Appendix A: Emission Calculations

326 IAC 6-2-3 Calculation

Company Name: Building Materials Manufacturing Corporation
Source Address: 901 Givens Road, Mount Vernon, IN 47620
FESOP SPR No.: 129-41894-00011
Reviewer: Doug Logan
Date: 10/28/2019

Particulate emissions limitations for sources of indirect heating subject to 326 IAC 6-2-1(c) involves two calculations found in 326 IAC 6-2-3:

First, an average stack height, \( h = \frac{\sum (H_i \times p_a \times Q_i)}{\sum (p_a \times Q_i)} \)

Second, the emissions limitation, \( P_t = \frac{(C \times a \times h)}{(76.5 \times Q^{0.75} \times N^{0.25})} \)

Terms and constants are defined at 326 IAC 6-2-3(a)

<table>
<thead>
<tr>
<th>Unit</th>
<th>Stack #</th>
<th>Height, Hi (ft)</th>
<th>Dia (ft)</th>
<th>Qi (MMBtu/hr)</th>
<th>pa (lb/MMBtu)</th>
<th>pai x Qi</th>
<th>H_i x pa_i x Q_i</th>
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<td>3.50</td>
<td>29.15</td>
<td>0.067</td>
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</tr>
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<td>7.00</td>
<td>0.067</td>
<td>0.47</td>
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<td>16.30</td>
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<tr>
<td></td>
<td>N=</td>
<td></td>
<td></td>
<td>Q = 80.80</td>
<td></td>
<td>sums:</td>
<td>5.41</td>
</tr>
</tbody>
</table>

and

\( h = 45.18 \text{ ft} \)

\( P_t = 0.45 \text{ lb/MMBtu} \)

Data from the July 1988 application to renew the original operating permit, taken as representative of construction conditions.
ref: VFC ID 36965121
## Appendix A: Emission Calculations

### Modified Bitumen Roofing Production Line

**Building Materials Manufacturing Corporation**

**Source Address:**
901 Givens Road, Mount Vernon, IN 47620

**FESOP SPR No.:**
129-41984-00011

**Reviewer:**
Doug Logan

**Date:**
10/28/2019

### Maximum Throughput

- **Asphalt:** 6.54 tons asphalt/hr
- **Shingles:** 13.50 tons shingles/hr
- **Granules:** 10.00 tons granules/hr

### Emission Calculations

#### Coater/Surge Tank

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Shingle-Basis Factor (lb/ton)</th>
<th>Asphalt-Basis Factor (lb/ton)</th>
<th>Control Efficiency</th>
<th>Unrestricted</th>
<th>After Issuance</th>
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</thead>
<tbody>
<tr>
<td>PM</td>
<td>- 1.18 96% 7.11 33.78 0.12 1.62 7.10</td>
<td>1.11 3.72 0.24 1.62</td>
<td>1.11 3.72 0.24 1.62</td>
<td>(lb/hr)</td>
<td>(tons/yr)</td>
</tr>
<tr>
<td>PM$_{10}$</td>
<td>- 1.18 96% 7.11 33.78 0.12 1.62 7.10</td>
<td>1.11 3.72 0.24 1.62</td>
<td>1.11 3.72 0.24 1.62</td>
<td>(lb/hr)</td>
<td>(tons/yr)</td>
</tr>
<tr>
<td>SO$_2$</td>
<td>- 3.72E-02 0% 0.24 1.62</td>
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<td>0.24 1.62</td>
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<td>(tons/yr)</td>
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<td>VOC</td>
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<td>- 1.23 5.36</td>
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<td>(tons/yr)</td>
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<td>H$_2$S</td>
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<td>0.07 0.29</td>
<td>0.07 0.29</td>
<td>(lb/hr)</td>
<td>(tons/yr)</td>
</tr>
</tbody>
</table>

#### Notes:
1. PM/PM$_{10}$/PM$_{2.5}$ emission factor from Table 1, A. L. Jankousky, Proposed Emission Factors for Criteria Pollutants and Hazardous Air Pollutants from Asphalt Roofing Manufacturing, Asphalt Roofing Manufacturers Association, May 12, 2003 (ARMA), multiplied by 2 to incorporate emissions from the mixer.
2. After Issuance lb/ton factor is PM limit from line 1, Table 2 to subpart AAAAAAA of 40 CFR 63, multiplied by 2 for condensable PM
3. SO$_2$ emission factor from Table 10, ARMA, multiplied by 2 to incorporate emissions from the mixer.
4. Emission factors are from AP-42 Table 11.2-4 (ECC 3-05-001-16 and SCC 3-05-001-17), shingle saturation; dip saturator; drying-in drum section, and coater.
5. H$_2$S emission factor multiplied by 2 to account for emissions from the mixer.

### Methodology

Asphalt-Basis Factor (lb/ton asphalt) = Shingle-Basis Factor (lb/ton shingle) x Maximum Throughput (tons shingles/yr) / Maximum Throughput (tons asphalt/yr)

Unrestricted PTE (tons/yr) = Asphalt Factor (lb/ton asphalt) x Maximum Throughput (tons asphalt/yr) / 2,000 (lb/ton)

PTE After Control (tons/yr) = Unrestricted PTE (tons/yr) x (1 - Control Efficiency (%)/100)

PTE After Issuance (tons/yr) = Asphalt-Basis Factor (lb/ton asphalt) x Maximum Throughput (tons asphalt/yr) / 2,000 (lb/ton)

### Potential to Emit Summary (tons/year)

#### Pollutant | PM | PM$_{10}$ | PM$_{2.5}$ | SO$_2$ | NOx | VOC | CO | H$_2$S
---|---|---|---|---|---|---|---|---
Uncontrolled PTE | 36.04 | 40.09 | 40.09 | 1.16 | - | 0.11 | 0.29 | 0.29
PTE After Issuance | 36.04 | 7.98 | 7.98 | 1.16 | - | 0.11 | 0.29 | 0.29

Notes:
1. PM and PM$_{10}$ emission factors are from an IDEM approved stack test performed on March 22, 2005 at the shingle line, assumed representative of the mod-bit line.
2. The average operating rate for the surfacing section during the test was 73 tons per hour. Assumes all PM$_{10}$ is PM$_{2.5}$ as a worst case.
3. VOC Emission Factor based on stack testing at Owens Corning Roofing & Asphalt, LLC, Brookville and at representative facilities. See SPR No. 047-32917-00005 for more information.
## 2. Hazardous Air Pollutants

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Shingle Factor (lb/ton)</th>
<th>Asphalt Factor (lb/ton)</th>
<th>PTE Uncontrolled (tons/yr)</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Organic HAP</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acenaphthene</td>
<td>1.90E-05</td>
<td>5.44E-04</td>
<td></td>
<td>[1]</td>
</tr>
<tr>
<td>Acenaphthylene</td>
<td>3.90E-07</td>
<td>9.85E-05</td>
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<td>[2]</td>
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<td>Anthracene</td>
<td>1.90E-05</td>
<td>5.44E-04</td>
<td></td>
<td>[1]</td>
</tr>
<tr>
<td>Benz(a)anthracene</td>
<td>1.90E-05</td>
<td>5.44E-04</td>
<td></td>
<td>[1]</td>
</tr>
<tr>
<td>Benzene</td>
<td>3.90E-07</td>
<td>8.06E-05</td>
<td></td>
<td>[2]</td>
</tr>
<tr>
<td>Benz(k)fluoranthene</td>
<td>1.90E-05</td>
<td>5.44E-04</td>
<td></td>
<td>[2]</td>
</tr>
<tr>
<td>Benzo(a)pyrene</td>
<td>1.90E-05</td>
<td>5.44E-04</td>
<td></td>
<td>[1]</td>
</tr>
<tr>
<td>1,3-Butanediene</td>
<td>-</td>
<td>3.30E-03</td>
<td>9.45E-02</td>
<td>[2]</td>
</tr>
<tr>
<td><strong>Inorganic HAP</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Barium</td>
<td>2.20E-07</td>
<td>4.13E-05</td>
<td></td>
<td>[2]</td>
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<tr>
<td>Cadmium</td>
<td>2.20E-07</td>
<td>4.13E-05</td>
<td></td>
<td>[2]</td>
</tr>
<tr>
<td>Chromium</td>
<td>2.30E-06</td>
<td>4.75E-06</td>
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<td>[2]</td>
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<tr>
<td>Cobalt</td>
<td>2.20E-06</td>
<td>4.13E-05</td>
<td></td>
<td>[2]</td>
</tr>
<tr>
<td>Copper</td>
<td>2.20E-06</td>
<td>4.13E-05</td>
<td></td>
<td>[2]</td>
</tr>
<tr>
<td>Lead</td>
<td>2.20E-06</td>
<td>4.13E-05</td>
<td></td>
<td>[2]</td>
</tr>
<tr>
<td>Manganese</td>
<td>2.20E-06</td>
<td>4.13E-05</td>
<td></td>
<td>[2]</td>
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<tr>
<td>Nickel</td>
<td>3.90E-07</td>
<td>9.85E-05</td>
<td></td>
<td>[1]</td>
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<tr>
<td><strong>Total HAP</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3.93</td>
<td></td>
</tr>
</tbody>
</table>

Notes:
1. HAP emissions from ARMA data for coater, mixer, and surge tank.
2. Emission Factor based on stack testing at Owens Corning Roofing & Asphalt, LLC, Brookville and at representative facilities. See SPR No. 047-32917-00005 for more information.
## Appendix A: Emission Calculations
### Potential to Emit Summary - Mineral Handling Operations

#### Company Name:
Building Materials Manufacturing Corporation

#### Source Address:
901 Givens Road, Mount Vernon, IN 47620

#### FESOP SPR No.:
129-41894-00011

#### Reviewer:
Doug Logan

#### Date:
10/28/2019

### Potential to Emit Summary - Mineral Handling Operations

<table>
<thead>
<tr>
<th>Emission Unit ID</th>
<th>Emission Unit Description</th>
<th>Material</th>
<th>Throughput (TPH)</th>
<th>Control Efficiency</th>
<th>Emission Factor (lb/ton)</th>
<th>PTE (TPY)</th>
<th>Controlled Emissions (TPY)</th>
<th>Limited Emissions (TPY)</th>
<th>Emission Factor Source</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>PM</td>
<td>PM10</td>
<td>PM2.5</td>
<td>PM</td>
<td>PM10</td>
</tr>
<tr>
<td>Granule Handling</td>
<td>Pit &amp; Underground Conveyor</td>
<td>Granule</td>
<td>30.60</td>
<td>99%</td>
<td>0.0290       0.00640</td>
<td>8.60</td>
<td>0.04</td>
<td>0.01</td>
<td>0.01</td>
</tr>
<tr>
<td>Modified Bitumen</td>
<td>Bucket Elevator to one of Twenty Storage Silos</td>
<td>Granule</td>
<td>10.00</td>
<td>99%</td>
<td>0.0290       0.00640</td>
<td>1.27</td>
<td>0.01</td>
<td>0.01</td>
<td>0.01</td>
</tr>
<tr>
<td>Shingle Granule Handling</td>
<td>One Conveyor Belt to One Storage Bin</td>
<td>Granule</td>
<td>30.60</td>
<td>0%</td>
<td>0.0290       0.00640</td>
<td>3.89</td>
<td>0.86</td>
<td>0.86</td>
<td>3.89</td>
</tr>
<tr>
<td>Shingle and Modified Bitumen Filler Handling Operation</td>
<td>Pneumatic Truck Unloading Operation to Storage Silo (96)</td>
<td>Filler</td>
<td>32.00</td>
<td>99%</td>
<td>0.73         0.47</td>
<td>102.32</td>
<td>65.88</td>
<td>65.88</td>
<td>1.02</td>
</tr>
<tr>
<td>Talc Handling Operation</td>
<td>One Pneumatic Transport System to One Storage Bin (518)</td>
<td>Talc</td>
<td>0.10</td>
<td>99%</td>
<td>9.00E-08     9.00E-08</td>
<td>3.94E-08</td>
<td>3.94E-08</td>
<td>3.94E-08</td>
<td>3.94E-08</td>
</tr>
<tr>
<td>Shingle and Modified Bitumen Sand Handling Operation</td>
<td>One Pneumatic Truck Unloading Operation to One Storage Silo (628)</td>
<td>Talc</td>
<td>4.63</td>
<td>99%</td>
<td>0.0021       0.00099</td>
<td>4.26E-04</td>
<td>2.01E-04</td>
<td>2.01E-04</td>
<td>0.04</td>
</tr>
</tbody>
</table>

### Methodology

PTE (TPY) = Throughput (TPH) x Emission Factor (lb/ton) x 8760 (hr/yr) / 2000 (lb/ton)

*Both unloading operations can operate at the same time.*
Appendix A: Emission Calculations
Potential to Emit - 2 Blowstills

Company Name: Building Materials Manufacturing Corporation
Source Address: 901 Givens Road, Mount Vernon, IN 47620
FESOP SPR No.: 129-41894-00011
Reviewer: Doug Logan
Date: 10/28/2019

Maximum Operational Capacity per Blow Still: 40,000 lbs/hr
Maximum Operational Capacity per Blow Still: 20 tons/hr
Number of blowstills: 2
Unrestricted capacity of blowing process: 40 tons/hr
Bottlenecked capacity of blowing process: 20 tons/hr
Limited Operational Capacity for all Blow Stills: 90,000 tons/yr

Notes:
1. Asphalt blowing is bottlenecked by blower capacity, which is sufficient only to operate one still

1. Criteria Pollutants

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>PM</th>
<th>PM_{10}</th>
<th>PM_{2.5}</th>
<th>SO_{2}</th>
<th>NO_{x}</th>
<th>VOC</th>
<th>CO</th>
<th>H_{2}S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emission Factor (lb/ton asphalt)</td>
<td>24.00</td>
<td>24.00</td>
<td>24.00</td>
<td>0.88</td>
<td>0.057</td>
<td>3.40</td>
<td>0.66</td>
<td>0.52</td>
</tr>
<tr>
<td>Uncontrolled PTE (tons/yr)</td>
<td>2,102.40</td>
<td>2,102.40</td>
<td>2,102.40</td>
<td>77.09</td>
<td>4.99</td>
<td>297.84</td>
<td>57.82</td>
<td>45.50</td>
</tr>
<tr>
<td>Limited Emission Factor (lb/ton)</td>
<td>0.30</td>
<td>0.30</td>
<td>0.30</td>
<td>-</td>
<td>-</td>
<td>0.17</td>
<td>0.66</td>
<td>-</td>
</tr>
<tr>
<td>PTE After Issuance (tons/yr)</td>
<td>13.50</td>
<td>13.50</td>
<td>13.50</td>
<td>39.60</td>
<td>2.57</td>
<td>7.65</td>
<td>29.70</td>
<td>23.38</td>
</tr>
</tbody>
</table>

Notes:
3. ARMA emission factor may be lower than AP-42 asphalt blowing (SCC 3-05-001-10), which is expressed in lb/ton of saturated felt produced, source will test to confirm the emission factor.
4. Methodology for H_{2}S is considered conservative. D.C. Trumbore, "The Magnitude and Source of Air Emissions from Asphalt Blowing Operations", Environmental Progress, 17(1), Spring 1998, suggests that H_{2}S is the source of 70-80% of the sulfur oxides from blowing with most of the remainder from other sulfur-containing species in the feedstock. A typical assumption in combustion processes is that 95% or more of sulfur is converted to SO_{2} (ref. AP-42 Chapter 1).

Methodology
Uncontrolled PTE (tons/yr) = Uncontrolled Emission Factor (lb/ton) x Maximum Operational Capacity per Blow Still (tons/hr) x 8,760 (hr/yr) / 2,000 (lb/ton)
PTE After Issuance (tons/yr) = Uncontrolled Emission Factor (lb/ton) x Limited Operational Capacity for all Blow Stills (tons/yr) / 2,000 (lb/ton)

2. Blowstill 3 BACT

BACT Limited Throughput: 175,200 tons/yr
BACT Required THC Destruction Efficiency: 90%

Methodology
PTE (tons/yr) = Limited Emission Factor (lb/ton) x BACT Limited Throughput (tons/yr) / 2,000 (lb/ton)
### 3. Hazardous Air Pollutants

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Emission Factors (lb/ton asphalt)</th>
<th>Potential to Emit (tons/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Uncontrolled</td>
<td>Controlled</td>
</tr>
<tr>
<td><strong>Organic</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acenaphthalene</td>
<td>1.28E-06</td>
<td>6.40E-08</td>
</tr>
<tr>
<td>Acenaphthene</td>
<td>2.60E-05</td>
<td>1.30E-06</td>
</tr>
<tr>
<td>Anthracene</td>
<td>1.52E-06</td>
<td>7.60E-09</td>
</tr>
<tr>
<td>Benz(a)anthracene</td>
<td>2.60E-07</td>
<td>1.30E-08</td>
</tr>
<tr>
<td>Benzene</td>
<td>6.60E-02</td>
<td>3.30E-03</td>
</tr>
<tr>
<td>Benzo(b)fluoranthene^3</td>
<td>2.40E-07</td>
<td>1.20E-08</td>
</tr>
<tr>
<td>Benzo(e)pyrene^3</td>
<td>3.00E-07</td>
<td>1.50E-08</td>
</tr>
<tr>
<td>Chrysene^3</td>
<td>1.16E-06</td>
<td>5.80E-08</td>
</tr>
<tr>
<td>Di-n-butylphthalate</td>
<td>6.20E-05</td>
<td>3.10E-06</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>0.13</td>
<td>6.50E-03</td>
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<tr>
<td>bis(2-Ethylhexyl)phthalate</td>
<td>1.28E-04</td>
<td>6.30E-06</td>
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<tr>
<td>Fluoranthene^3</td>
<td>1.76E-05</td>
<td>8.80E-07</td>
</tr>
<tr>
<td>Fluorene^5</td>
<td>6.80E-05</td>
<td>3.40E-06</td>
</tr>
<tr>
<td>2-Methylnaphthalene^3</td>
<td>7.60E-05</td>
<td>3.80E-06</td>
</tr>
<tr>
<td>2-Methyl phenol</td>
<td>4.80E-05</td>
<td>2.40E-06</td>
</tr>
<tr>
<td>4-Methyl phenol</td>
<td>8.00E-05</td>
<td>4.00E-06</td>
</tr>
<tr>
<td>Naphthalene^2</td>
<td>2.20E-04</td>
<td>1.10E-05</td>
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<tr>
<td>Phenanthrene^3</td>
<td>6.00E-05</td>
<td>3.00E-06</td>
</tr>
<tr>
<td>Phenol</td>
<td>1.02E-04</td>
<td>5.10E-06</td>
</tr>
<tr>
<td>Pyrene^3</td>
<td>2.40E-05</td>
<td>1.20E-06</td>
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<tr>
<td>Toluene</td>
<td>2.60E-03</td>
<td>1.30E-04</td>
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<tr>
<td><strong>Inorganic</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hydrogen chloride^2</td>
<td>5.60E-03</td>
<td>5.60E-03</td>
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<tr>
<td><strong>Total HAP</strong></td>
<td>17.97</td>
<td>6.87</td>
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</tbody>
</table>

Notes:
2. Thermal destruction is not a control technology for HCl, so the uncontrolled emission factor is taken as the same as controlled.
3. AP-42 notes that POM emissions are 0.03% of filterable PM for asphalt blowing (note a to Table 11.2-2). The AP-42 factor is less than the total of named POM compounds in the ARMA document, so the ARMA factors are used as the more conservative choice.

**Methodology**

Uncontrolled Emission Factor (lb/ton) = Uncontrolled Emission Factor (lb/ton) / [1 - 95%/100]

Uncontrolled PTE (tons/yr) = Uncontrolled Emission Factor (lb/ton) x Maximum Operational Capacity per Blow Still (tons/hr) x 8,760 (hr/yr) / 2,000 (lb/ton)

PTE After Issuance (tons/yr) = Uncontrolled Emission Factor (lb/ton) x Limited Operational Capacity for all Blow Stills (tons/yr) / 2,000 (lb/ton) ethylbenzene
### A. Criteria Pollutants

#### Coater/Surge Tank

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Shingle-Basis Factor (lb/ton)</th>
<th>Asphalt-Basis Factor (lb/ton)</th>
<th>Control Efficiency</th>
<th>Potential to Emit</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Unrestricted</td>
<td>Controlled</td>
<td>Unrestricted</td>
<td>Controlled</td>
<td>After Issuance</td>
</tr>
<tr>
<td>PM</td>
<td>0.04</td>
<td>1.92E-03</td>
<td>95%</td>
<td>2.88</td>
<td>12.89</td>
</tr>
<tr>
<td>PM&lt;sub&gt;10&lt;/sub&gt;</td>
<td>0.11</td>
<td>3.34E-03</td>
<td>95%</td>
<td>8.01</td>
<td>35.10</td>
</tr>
<tr>
<td>PM&lt;sub&gt;2.5&lt;/sub&gt;</td>
<td>0.11</td>
<td>3.34E-03</td>
<td>95%</td>
<td>8.01</td>
<td>35.10</td>
</tr>
<tr>
<td>VOC</td>
<td>3.00E-03</td>
<td>3.00E-03</td>
<td>95%</td>
<td>0.23</td>
<td>0.99</td>
</tr>
<tr>
<td>H&lt;sub&gt;2&lt;/sub&gt;S</td>
<td>4.84E-03</td>
<td>2.72E-02</td>
<td>0%</td>
<td>0.14</td>
<td>0.62</td>
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</table>

#### Granule Application

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Emission Factor (lb/ton shingles)</th>
<th>Control Efficiency</th>
<th>Potential to Emit</th>
<th>Emission Factor Source</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Uncontrolled</td>
<td>Controlled</td>
<td>Unrestricted</td>
<td>Controlled</td>
</tr>
<tr>
<td>SO&lt;sub&gt;2&lt;/sub&gt;</td>
<td>0.0372 (Adhesive)</td>
<td>5.85E-02</td>
<td>0.24</td>
<td>0.24</td>
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<tr>
<td>CO</td>
<td>0.091</td>
<td>1.96E-02</td>
<td>0.09</td>
<td>0.09</td>
</tr>
<tr>
<td>H&lt;sub&gt;2&lt;/sub&gt;S</td>
<td>0.0272 (Adhesive)</td>
<td>4.08E-02</td>
<td>0.18</td>
<td>0.18</td>
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</tbody>
</table>

#### Self-Seal Application and Cooling Section

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Emission Factor (lb/hr)</th>
<th>Potential to Emit</th>
<th>Emission Factor Source</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Uncontrolled</td>
<td>Controlled</td>
<td>Unrestricted</td>
</tr>
<tr>
<td>SO&lt;sub&gt;2&lt;/sub&gt;</td>
<td>0.0372 (Adhesive)</td>
<td>4.85E-02</td>
<td>0.20</td>
</tr>
<tr>
<td>VOC</td>
<td>0.091</td>
<td>1.96E-02</td>
<td>0.09</td>
</tr>
<tr>
<td>H&lt;sub&gt;2&lt;/sub&gt;S</td>
<td>0.0272 (Adhesive)</td>
<td>4.08E-02</td>
<td>0.15</td>
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</table>

#### Potential to Emit Summary (tons/year)

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>PM</th>
<th>PM&lt;sub&gt;10&lt;/sub&gt;</th>
<th>PM&lt;sub&gt;2.5&lt;/sub&gt;</th>
<th>SO&lt;sub&gt;2&lt;/sub&gt;</th>
<th>NOx</th>
<th>VOC</th>
<th>CO</th>
<th>H&lt;sub&gt;2&lt;/sub&gt;S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Uncontrolled PTE</td>
<td>31.52</td>
<td>104.12</td>
<td>104.12</td>
<td>2.82</td>
<td>-</td>
<td>31.58</td>
<td>0.75</td>
<td>1.92</td>
</tr>
<tr>
<td>PTE After Issuance</td>
<td>17.55</td>
<td>42.00</td>
<td>42.00</td>
<td>2.40</td>
<td>-</td>
<td>29.21</td>
<td>0.70</td>
<td>1.92</td>
</tr>
</tbody>
</table>

### Methodology

Asphalt Factor (lb/ton asphalt) = Shingle Factor (lb/ton shingle) x Maximum Throughput (tons shingles/yr) / Maximum Throughput (tons asphalt/yr)

Potential to Emit (tons/yr) = Asphalt Factor (lb/ton asphalt) x Maximum Throughput (tons asphalt/yr) / 2,000 (lb/ton)

PTE After Control (tons/yr) = Unrestricted PTE (tons/yr) x (1 - Control Efficiency (%)/100)

Unrestricted PTE (tons/yr) = Asphalt Factor (lb/ton asphalt) x Maximum Throughput (tons asphalt/yr) / 2,000 (lb/ton)

1. PM and PM<sub>10</sub> emission factors are from Table 1. A.L. Jankousky, Prepared Emission Factors for Criteria Pollutants and Hazardous Air Pollutants from Asphalt Roofing Manufacturers Association, May 12, 2003 (ARMA), multiplied by 2 to incorporate emissions from the mixer.

2. After issuance lb/ton factor is PM<sub>10</sub> from Table 2 to subpart AAAAAA of 40 CFR 63, multiplied by 2. Table 2 is from Owens Corning Roofing & Asphalt, LLC, Brookville and at representative facilities. See SPR No. 047-32917-00005 for more information.

3. SO<sub>2</sub> emission factor from Table 10 of ARMA, multiplied by 2 to incorporate emissions from the mixer.

4. Emission factors are from AP-42 Table 11-2-4 (SCC 3-05-001-18 and SCC 3-05-001-17), shingle saturation: dip saturator, drying-in drum section, and coater. Emission factors are from AP-42 Table 11-2-4 (SCC 3-05-001-16 and SCC 3-05-001-17), shingle saturation: dip saturator, drying-in drum section, and coater. Emission factors are from AP-42 Table 11-2-4 (SCC 3-05-001-16 and SCC 3-05-001-17), shingle saturation: dip saturator, drying-in drum section, and coater. Emission factors are from AP-42 Table 11-2-4 (SCC 3-05-001-16 and SCC 3-05-001-17), shingle saturation: dip saturator, drying-in drum section, and coater.

5. H<sub>2</sub>S emission factor multiplied by 2 to account for emissions from the mixer.

Notes:

1. PM and PM<sub>10</sub> emission factors are from an OEM approved stack test performed on March 22, 2005. The average operating rate for the surfacing section during the test was 73 tons per hour. Assumes all PM<sub>10</sub> is PM<sub>2.5</sub> as a worst case scenario.

2. VOC Emission Factor based on stack testing at Owens Corning Roofing & Asphalt, LLC, Brookville and at representative facilities. See SPR No. 047-32917-00005 for more information.

3. PM<sub>10</sub> emission factor multiplied by 2 to incorporate emissions from the mixer.

4. Emission factors are from AP-42 Table 11-2-4 (SCC 3-05-001-18 and SCC 3-05-001-17), shingle saturation: dip saturator, drying-in drum section, and coater. Emission factors are from AP-42 Table 11-2-4 (SCC 3-05-001-16 and SCC 3-05-001-17), shingle saturation: dip saturator, drying-in drum section, and coater. Emission factors are from AP-42 Table 11-2-4 (SCC 3-05-001-16 and SCC 3-05-001-17), shingle saturation: dip saturator, drying-in drum section, and coater. Emission factors are from AP-42 Table 11-2-4 (SCC 3-05-001-16 and SCC 3-05-001-17), shingle saturation: dip saturator, drying-in drum section, and coater.
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### Hazardous Air Pollutants (HAPs) - Organics

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### Hazardous Air Pollutants (HAPs) - Metals

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### Methodology

All emission factors are based on normal firing.

**Emission Factors for NOx:**
- Uncontrolled = 100
- Low NOx Burner = 50
- Low NOx Burners/Flue gas recirculation = 32

**Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 MMBtu**

**Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF) / 2,000 lb/ton**

**Hazardous Air Pollutants (HAPs)**

**Emission Unit / Unit ID**

- PM* 1.9
- PM10* 7.6
- direct PM2.5* 7.6
- NOx 0.6
- VOC 100
- CO 5.5
- Additional HAPs emission factors are available in AP-42, Chapter 1.4.

**Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03**

**MMCF = 1,000,000 Cubic Feet of Gas**

**MMBtu = 1,000,000 Btu**

**Potential Emissions (TPY) = Total Potential Emission x Emission Factor (lb/MMCF)/2,000 lb/ton**

**Total Potential Emission**

- Boris Steiger, MBBtu/yr
- Liquid Asphalt Storage Heater
- Filler Heater Hot Oil Heater
- Mod-Bit Hot Oil Heater
- Coating Heater
- S36 Flux Heater
- Boiler No. 2
- Boiler No. 1

**Emission Factor in lb/MMCF**

- **see below**

**PM** 0.3

**PM10** 0.5

**PM2.5** 0.1

**CO** 1

**Combined HAPs** 0.72

**Worst HAP** 0.69
Appendix A: Emissions Calculations
LPG-Propane - Liquid
(Heat input capacity: > 10 MMBtu/hr and < 100 MMBtu/hr)

Company Name: Building Materials Manufacturing Corporation
Source Address: 901 Givens Road, Mount Vernon, IN 47620
FESOP SPR No.: 129-41894-00011
Reviewer: Doug Logan
Date: 10/28/2019

SO2 Emission factor = 0.10 x S
S = Sulfur Content = 0.47 grains/100ft³

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Emission Factor in lb/kgal

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<th>Emmission Unit / Unit ID</th>
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<tr>
<td>Flame Bar</td>
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**TOC value

*PM emission factor is filterable PM only. PM emissions are stated to be all less than 10 microns in aerodynamic equivalent diameter, footnote in Table 1.5-1, therefore PM10 is based on the filterable and condensable PM emission factors.

**No direct PM2.5 emission factor was given. Direct PM2.5 is a subset of PM10. If one assumes all PM10 to be all direct PM2.5, then a worst case assumption of direct PM2.5 can be made.

**The TOC value given is TOC. The methane emission factor is 0.2 lb/kgal.

Methodology
1 gallon of LPG has a heating value of 94,000 Btu
1 gallon of propane has a heating value of 91,500 Btu (use this to convert emission factors to an energy basis for propane)

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 kgal per 1000 gallon x 1 gal per 0.0915 MMBtu

Emission Factors are from AP42 (7/08), Table 1.5-1 (SCC #1-02-010-02)

Propane Emission Factors shown. Please see AP-42 for butane.

Emission (tons/yr) = Throughput (kgals/yr) x Emission Factor (lb/kgal) / 2,000 lb/ton
### TANKS 4.0.9d - Entry Data

#### Physical Characteristics Tab

<table>
<thead>
<tr>
<th>Description</th>
<th>Asphalt Flux</th>
<th>Asphalt Flux and ACS Flux</th>
<th>Asphalt Flux and ACS Flux</th>
<th>Coating</th>
<th>Coating</th>
<th>Laminar Adhesive</th>
<th>Laminar Adhesive</th>
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<th>APP</th>
<th>Fluidizer</th>
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<td>38.00</td>
<td>38.00</td>
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</table>
| TANKS 4.0.9d - Entry Data

**Notes:**
1. All tank losses are assumed to be VOC, vent case.
2. CO was calculated using the ratio of VOC/CO2 from API-42, Ch. 11.1, Table 11.1-4 (3/2004), site 88.
3. PM was calculated assuming VOC = PMV/PM10/PM2.5 and a factor of 2 to account for variability.
4. H2S emissions were estimated using the ppm concentration, molar volume of 385.5 ft³/lb-mol, the calculated air flows, and a factor of 2 to account for variability.
5. Tank capacities were taken from issued permits and past applications. The dimensions of the tanks were adjusted in some cases to make the final tank volumes correct.
6. Emissions were estimated using the ppm concentration, molar volume of 385.5 ft³/lb-mol, the calculated air flows, and a factor of 2 to account for variability.
7. D.C. Trumbore, "Estimates of Air Emissions from Asphalt Storage Tanks and Truck Loading," Environmental Progress, 18(4), Winter 1999, was reviewed for site specific speciation of particulate and VOC emissions. However, the testing methodology was not determined to be acceptable.
8. Detailed VOC calculations for all tanks are on the following pages.
9. Tank Air Flow (ft³/yr) calculated based on the working losses (bary) and stock vapor density (bary/ft³). Under normal operations, the tanks only vent during loading operations.
10. H2S concentration (ppm) estimated using the Trumbore equation (12.45 * VOL/650) assuming worst case LEL (100%).
11. CO concentration (ppm) estimated using the Trumbore equation (142 * VOL/800) assuming worst case LEL (100%).
12. Estimation of SO2 emissions generated due to oxidation of sulfur compounds based on the estimated H2S emission rate and the ratio of SO2:H2S emissions from the coater.
13. HAP/Non-HAP emissions from tanks estimated as a fraction of the VOC emissions based on the total HAP to VOC ratio from the coater.

**Appendix A: Emissions Calculations**

**Miscellaneous Storage Tanks Summary**

Company Name: Building Materials Manufacturing Corporation
Source Address: 901 Givens Road, Mount Vernon, IN 47620
FESOP S/NR: 129-41894-00011
Reviewer: Doug Logan
Date: 10/29/2019
| Parameter | T-1 | T-2 | T-3 | T-4 | T-5 | T-6 | T-7 | T-8 | T-9 | T-10 | T-11 | T-12 | T-13 | T-14 | T-15 | T-16 | T-17 | T-18 | T-19 | T-20 | MS | M1 | M2 | M3 | M4 | M5 |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Shell Color | Aluminum | Aluminum | Aluminum | Aluminum | Black | Black | Black | Black | Black | Black | Black | Black | Black | Black | Black | Black | Black | Black | Black | Black | Black | Black | Black | Black |
| Roof Color | Black | Black | Black | Black | Black | Black | Black | Black | Black | Black | Black | Black | Black | Black | Black | Black | Black | Black | Black | Black | Black | Black | Black | Black |
| Roof Height | 36.00 | 36.00 | 36.00 | 36.00 | 36.00 | 36.00 | 36.00 | 36.00 | 36.00 | 36.00 | 36.00 | 36.00 | 36.00 | 36.00 | 36.00 | 36.00 | 36.00 | 36.00 | 36.00 | 36.00 | 36.00 | 36.00 | 36.00 |
| Tank Diameter | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 |
| Tank Volume (gal) | 141,065 | 4,072 | 4,072 | 4,072 | 12,091 | 4,072 | 4,072 | 4,072 | 4,072 | 4,072 | 4,072 | 4,072 | 4,072 | 4,072 | 4,072 | 4,072 | 4,072 | 4,072 | 4,072 | 4,072 | 4,072 | 4,072 | 4,072 |
| Tank Volume (gal) | 1,055,160 | 30,455 | 30,455 | 30,455 | 91,545 | 30,455 | 30,455 | 30,455 | 30,455 | 30,455 | 30,455 | 30,455 | 30,455 | 30,455 | 30,455 | 30,455 | 30,455 | 30,455 | 30,455 | 30,455 | 30,455 | 30,455 | 30,455 |

**Miscellaneous Storage Tanks Calculations**

- **Roof Type (Column)***: Flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat flat f...
Emissions calculated based on output rating (hp)

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<tr>
<td>Potential Throughput (hp-hr/yr)</td>
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<tr>
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<th>PM10*</th>
<th>direct PM2.5*</th>
<th>SO2</th>
<th>NOx</th>
<th>VOC</th>
<th>CO</th>
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<td>0.0022</td>
<td>0.0022</td>
<td>0.0021</td>
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<td>Potential Emission in tons/yr</td>
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*PM and PM2.5 emission factors are assumed to be equivalent to PM10 emission factors. No information was given regarding which method was used to determine the factor or the fraction of PM10 which is condensable.

Hazardous Air Pollutants (HAPs)

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<td>Xylene</td>
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<td>1,3-Butadiene</td>
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<td>Formaldehyde</td>
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| Emission Factor in lb/hp-hr**** | 4.16E-04 | 1.83E-04 | 1.27E-04 | 1.74E-05 | 5.27E-04 | 3.42E-04 | 4.13E-05 | 7.50E-05 |
| Potential Emission in tons/yr  | 6.32E-06 | 2.85E-06 | 2.00E-06 | 2.74E-07 | 8.26E-06 | 5.37E-06 | 6.48E-06 | 1.18E-06 |

***PAH = Polyaromatic Hydrocarbon (PAHs are considered HAPs, since they are considered Polycyclic Organic Matter)

****Emission factors in lb/hp-hr were calculated using emission factors in lb/MMBtu and a brake specific fuel consumption of 7,000 Btu / hp-hr (AP-42 Table 3.3-1).

Methodology

Emission Factors are from AP 42 (Supplement B 10/96) Tables 3.4-1, 3.4-2, 3.4-3, and 3.4-4.

Potential Throughput (hp-hr/yr) = \[\text{Output Horsepower Rating (hp)} \times \text{Maximum Hours Operated per Year}\]

Potential Emission (tons/yr) = \[\text{Potential Throughput (hp-hr/yr)} \times \text{Emission Factor (lb/hp-hr)} / 2,000\text{ lb/ton}\]
### Emission Calculations

**Large Reciprocating Internal Combustion Engines - Diesel Fuel**

**Emergency Generator S-47**

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<tr>
<td>Reviewer:</td>
<td>Doug Logan</td>
</tr>
<tr>
<td>Date:</td>
<td>10/28/2019</td>
</tr>
</tbody>
</table>

**Output Rating (>600 HP)**

**Output Horsepower Rating (hp)** 755.0

**Maximum Hours Operated per Year** 500

**Potential Throughput (hp-hr/yr)** 377,500

**Sulfur Content (S) of Fuel (% by weight)** 0.050

---

**Emissions calculated based on output rating (hp)**

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Emission Factor in lb/hp-hr</th>
<th>Potential Emission in tons/yr</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM*</td>
<td>7.00E-04</td>
<td>0.13</td>
</tr>
<tr>
<td>PM10*</td>
<td>4.01E-04</td>
<td>0.08</td>
</tr>
<tr>
<td>direct PM2.5*</td>
<td>4.01E-04</td>
<td>0.08</td>
</tr>
<tr>
<td>SO2</td>
<td>4.05E-04</td>
<td>0.08</td>
</tr>
<tr>
<td>NOx</td>
<td><strong>2.40E-02</strong></td>
<td>4.53</td>
</tr>
<tr>
<td>VOC</td>
<td>7.05E-04</td>
<td>0.13</td>
</tr>
<tr>
<td>CO</td>
<td>5.50E-03</td>
<td>1.04</td>
</tr>
</tbody>
</table>

*PM10 emission factor in lb/hp-hr was calculated using the emission factor in lb/MMBtu and a brake specific fuel consumption of 7,000 Btu / hp-hr (AP-42 Table 3.3-1).**

**NOx emission factor: uncontrolled = 0.024 lb/hp-hr, controlled by ignition timing retard = 0.013 lb/hp-hr**

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**Hazardous Air Pollutants (HAPs)**

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Emission Factor in lb/hp-hr</th>
<th>Potential Emission in tons/yr</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzene</td>
<td>5.43E-06</td>
<td>1.03E-03</td>
</tr>
<tr>
<td>Toluene</td>
<td>1.97E-06</td>
<td>3.71E-04</td>
</tr>
<tr>
<td>Xylene</td>
<td>1.35E-06</td>
<td>2.55E-04</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>5.52E-07</td>
<td>1.04E-04</td>
</tr>
<tr>
<td>Acetaldehyde</td>
<td>1.76E-07</td>
<td>3.33E-05</td>
</tr>
<tr>
<td>Acrolein</td>
<td>5.52E-08</td>
<td>1.04E-05</td>
</tr>
<tr>
<td>Total PAH HAPs***</td>
<td>1.48E-06</td>
<td>2.80E-04</td>
</tr>
</tbody>
</table>

**PAH = Polyaromatic Hydrocarbon (PAHs are considered HAPs, since they are considered Polycyclic Organic Matter)**

***Emission factors in lb/hp-hr were calculated using emission factors in lb/MMBtu and a brake specific fuel consumption of 7,000 Btu / hp-hr (AP-42 Table 3.3-1).***

---

**Methodology**

Emission Factors are from AP 42 (Supplement B 10/96) Tables 3.4-1, 3.4-2, 3.4-3, and 3.4-4.

Potential Throughput (hp-hr/yr) = [Output Horsepower Rating (hp)] * [Maximum Hours Operated per Year]

Potential Emission (tons/yr) = [Potential Throughput (hp-hr/yr)] * [Emission Factor (lb/hp-hr)] / [2,000 lb/ton]
Appendix A: Emissions Calculations
Insignificant Degreaser

Company Name: Building Materials Manufacturing Corporation
Source Address: 901 Givens Road, Mount Vernon, IN 47620
FESOP SPR No.: 129-41894-00011
Reviewer: Doug Logan
Date: 10/28/2019

In order for the degreaser to qualify as an insignificant activity under the listing in 326 IAC 2-7-1(21)(j)(vi)(DD), the source shall use solvents "the use of which, for all cleaners and solvents combined, does not exceed one hundred forty-five (145) gallons per twelve (12) months*."

Based on a review of the solvents most widely supplied for the industry by Crystal Clean and Safety-Kleen, the following PTE is based on the following conservative estimates:

The solvent has a maximum density of 6.7 lb/gal.
The solvent used in the degreaser contains 100% VOC and up to 0.2% HAP (tetrachloroethylene).

| Uncontrolled Potential Emissions (per each degreaser) |
|--------------------------------|----------------|-------------|-------------|-----------|
| 6.7 lb/gal x 100% VOC x 145 gal/yr x 2000 lb/ton = 0.49 tons VOC per year |
| 0.49 tpy VOC x 0.2% HAP = 0.001 tons HAP per year |
Appendix A: Emission Calculations
Fugitive Dust Emissions - Unpaved Roads

Company Name: Building Materials Manufacturing Corporation
Source Address: 901 Givens Road, Mount Vernon, IN 47620
FESOP SPR No.: 129-41894-00011
Reviewer: Doug Logan
Date: 10/28/2019

Unpaved Roads at Industrial Site
The following calculations determine the amount of emissions created by unpaved roads, based on 8,760 hours of use and AP-42, Ch 13.2.2 (11/2006).

Vehicle Information (provided by source)

<table>
<thead>
<tr>
<th>Type</th>
<th>Maximum number of vehicles</th>
<th>Number of one way trips per day per vehicle</th>
<th>Maximum trips per day (trip/day)</th>
<th>Maximum Weight Loaded (tons/trip)</th>
<th>Maximum Weight loaded per day (ton/day)</th>
<th>Maximum one-way distance (feet/trip)</th>
<th>Maximum one-way distance (miles/day)</th>
<th>Maximum one-way distance (miles/year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vehicle (entering plant)</td>
<td>120.0</td>
<td>1.0</td>
<td>120.0</td>
<td>22.5</td>
<td>2700.0</td>
<td>0.284</td>
<td>34.1</td>
<td>12443.2</td>
</tr>
<tr>
<td>Vehicle (leaving plant)</td>
<td>120.0</td>
<td>1.0</td>
<td>120.0</td>
<td>22.5</td>
<td>2700.0</td>
<td>0.284</td>
<td>34.1</td>
<td>12443.2</td>
</tr>
<tr>
<td>Totals</td>
<td>240.0</td>
<td>4800.0</td>
<td>68.2</td>
<td>4800.0</td>
<td>24886.4</td>
<td>0.568</td>
<td>68.2</td>
<td>24886.4</td>
</tr>
</tbody>
</table>

Average Vehicle Weight Per Trip = 20.0 tons/trip
Average Miles Per Trip = 0.28 miles/trip

Unmitigated Emission Factor, \( E \) = \[\frac{k}{(s/12)^a}\frac{1}{(W/3)^b}\] (Equation 1a from AP-42 13.2.2)

<table>
<thead>
<tr>
<th>PM</th>
<th>PM10</th>
<th>PM2.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.9</td>
<td>1.5</td>
<td>0.15</td>
</tr>
</tbody>
</table>

\[ s = 6.0 \quad a = 0.7 \quad W = 20.0 \quad b = 0.45 \]

Unmitigated Emission Factor, \( E \) = \[\frac{k}{(s/12)^a}\frac{1}{(W/3)^b}\] (Equation 1a from AP-42 13.2.2)

<table>
<thead>
<tr>
<th>PM</th>
<th>PM10</th>
<th>PM2.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.08</td>
<td>1.89</td>
<td>0.19</td>
</tr>
</tbody>
</table>

Turning natural mitigation due to precipitation into consideration, Mitigated Emission Factor, \( E_{ext} \) = \[E \times \left(\frac{365 - P}{365}\right)\] (Equation 2 from AP-42 13.2.2)

Mitigated Emission Factor, \( E_{ext} \) = \[E \times \left(\frac{365 - P}{365}\right)\]

where \( P = 125 \) days of rain greater than or equal to 0.01 inches (see Fig. 13.2.2-1)

<table>
<thead>
<tr>
<th>PM</th>
<th>PM10</th>
<th>PM2.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.66</td>
<td>1.24</td>
<td>0.12</td>
</tr>
</tbody>
</table>

Dust Control Efficiency = 50% (pursuant to control measures outlined in fugitive dust control plan)

<table>
<thead>
<tr>
<th>Process</th>
<th>Mitigated PTE of PM (Before Control) (tons/yr)</th>
<th>Mitigated PTE of PM10 (Before Control) (tons/yr)</th>
<th>Mitigated PTE of PM2.5 (Before Control) (tons/yr)</th>
<th>Mitigated PTE of PM (After Control) (tons/yr)</th>
<th>Mitigated PTE of PM10 (After Control) (tons/yr)</th>
<th>Mitigated PTE of PM2.5 (After Control) (tons/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vehicle (entering plant)</td>
<td>28.98</td>
<td>7.72</td>
<td>0.77</td>
<td>14.49</td>
<td>3.86</td>
<td>0.39</td>
</tr>
<tr>
<td>Vehicle (leaving plant)</td>
<td>28.98</td>
<td>7.72</td>
<td>0.77</td>
<td>14.49</td>
<td>3.86</td>
<td>0.39</td>
</tr>
<tr>
<td>Totals</td>
<td>57.95</td>
<td>15.44</td>
<td>1.54</td>
<td>28.98</td>
<td>7.72</td>
<td>0.77</td>
</tr>
</tbody>
</table>

Methodology

| Total Weight driven per day (ton/day) = [Maximum Weight Loaded (tons/trip)] * [Maximum trips per day (trip/day)] |
|---------------------------------------------------------------|---------------------------------------------------------------|
| Maximum one-way distance (feet/trip) = [Maximum one-way distance (miles/day)] * [5280 ft/mile] |
| Maximum one-way miles (miles/day) = [Maximum one-way miles (miles/year)] * [2000 lbs] |
| Average Vehicle Weight Per Trip (tons/trip) = SUM(Maximum Weight loaded per day (ton/day)) / SUM(Maximum trips per day (trip/day)) |
| Mitigated PTE (Before Control) (tons/yr) = (Maximum one-way miles (miles/year)) * (Mitigated Emission Factor (lb/mile)) * (ton/2000 lbs) |
| Mitigated PTE (After Control) (tons/yr) = (Mitigated PTE (Before Control) (tons/yr)) * (1 - Dust Control Efficiency) |

Abbreviations

PM = Particulate Matter
PM10 = Particulate Matter (<10 um)
PM2.5 = Particulate Matter (<2.5 um)
PTE = Potential to Emit

Page 20 of 20 TSD App. A
November 19, 2019

Matthew Mahrenholz
Building Materials Manufacturing Corporation
901 Givens Rd
Mount Vernon, IN 47620

Re: Public Notice
Building Materials Manufacturing
Permit Level: FESOP Significant Permit Rev
Permit Number: 129-41894-00011

Dear Matthew Mahrenholz:

Enclosed is a copy of your draft FESOP Significant Permit Rev (Minor PSD/EO) (120), Technical Support Document, emission calculations, and the Public Notice.

The Public Notice period will begin the date the Notice is published on the IDEM Official Public Notice website. Publication has been requested and is expected within 2-3 business days. You may check the exact Public Notice begins and ends date here: https://www.in.gov/idem/5474.htm

Please note that as of April 17, 2019, IDEM is no longer required to publish the notice in a newspaper.

OAQ has submitted the draft permit package to the Alexandrian Public Library 115 West 5th Mt. Vernon IN 47620. As a reminder, you are obligated by 326 IAC 2-1.1-6(c) to place a copy of the complete permit application at this library no later than ten (10) days after submittal of the application or additional information to our department. We highly recommend that even if you have already placed these materials at the library, that you confirm with the library that these materials are available for review and request that the library keep the materials available for review during the entire permitting process.

Please review the enclosed documents carefully. This is your opportunity to comment on the draft permit and notify the OAQ of any corrections that are needed before the final decision. Questions or comments about the enclosed documents should be directed to Doug Logan, Indiana Department of Environmental Management, Office of Air Quality, 100 N. Senate Avenue, Indianapolis, Indiana, 46204 or call (800) 451-6027, and ask for extension 4-5328 or dial (317) 234-5328.

Sincerely,

L. Pogost

L. Pogost
Permits Branch
Office of Air Quality

Enclosures
PN Applicant Cover Letter 4/12/19
November 19, 2019

To: Alexandrian Public Library 115 West 5th Mt. Vernon IN 47620 (Library)

From: Jenny Acker, Branch Chief
Permits Branch
Office of Air Quality

Subject: Important Information to Display Regarding a Public Notice for an Air Permit

Applicant Name: Building Materials Manufacturing
Permit Number: 129-41894-00011

Enclosed is a copy of important information to make available to the public. This proposed project is regarding a source that may have the potential to significantly impact air quality. Librarians are encouraged to educate the public to make them aware of the availability of this information. The following information is enclosed for public reference at your library:

- Notice of a 30-day Period for Public Comment
- Draft Permit and Technical Support Document

You will not be responsible for collecting any comments from the citizens. Please refer all questions and request for the copies of any pertinent information to the person named below.

Members of your community could be very concerned in how these projects might affect them and their families. Please make this information readily available until you receive a copy of the final package.

If you have any questions concerning this public review process, please contact Joanne Smiddle-Brush, OAQ Permits Administration Section at 1-800-451-6027, extension 3-0185. Questions pertaining to the permit itself should be directed to the contact listed on the notice.

Enclosures
PN Library updated 4/2019
Notice of Public Comment

November 19, 2019
Building Materials Manufacturing
129-41894-00011

Dear Concerned Citizen(s):

You have been identified as someone who could potentially be affected by this proposed air permit. The Indiana Department of Environmental Management, in our ongoing efforts to better communicate with concerned citizens, invites your comment on the draft permit.

Enclosed is a Notice of Public Comment, which has posted on IDEM’s Public Notice website at https://www.in.gov/idem/5474.htm.

The application and supporting documentation for this proposed permit have been placed at the library indicated in the Notice. These documents more fully describe the project, the applicable air pollution control requirements and how the applicant will comply with these requirements.

If you would like to comment on this draft permit, please contact the person named in the enclosed Public Notice. Thank you for your interest in the Indiana’s Air Permitting Program.

Please Note: If you feel you have received this Notice in error, or would like to be removed from the Air Permits mailing list, please contact Patricia Pear with the Air Permits Administration Section at 1-800-451-6027, ext. 3-6875 or via e-mail at PPEAR@IDEM.IN.GOV. If you have recently moved and this Notice has been forwarded to you, please notify us of your new address and if you wish to remain on the mailing list. Mail that is returned to IDEM by the Post Office with a forwarding address in a different county will be removed from our list unless otherwise requested.

Enclosure
PN AAA Cover Letter 4/12/2019
## Mail Code 61-53

<table>
<thead>
<tr>
<th>IDEM Staff</th>
<th>LPGOST 11/19/2019 Building Materials Manufacturing Corporation 129-41894-00011 (draft)</th>
<th>AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name and address of Sender</td>
<td>Name of Receiving Employee</td>
<td>Type of Mail: CERTIFICATE OF MAILING ONLY</td>
</tr>
<tr>
<td>Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Line 1
Matthew Mahrenholz Building Materials Manufacturing Corporation 901 Given Rd Mount Vernon IN 47620 (Source CAATS)

### Line 2
Sean Marren Plant Manager Building Materials Manufacturing Corporation 901 Given Rd Mount Vernon IN 47620 (RO CAATS)

### Line 3
Posey County Commissioners County Courthouse, 126 E. 3rd Street Mount Vernon IN 47620 (Local Official)

### Line 4
Posey County Health Department 126 E. 3rd St Coliseum Bldg Mount Vernon IN 47620-1811 (Health Department)

### Line 5
Mount Vernon City Council and Mayors Office 520 Main Street Mount Vernon IN 47620 (Local Official)

### Line 6
Dr. Jeff Seyler Univ. of So Ind., 8600 Univ. Blvd. Evansville IN 47712 (Affected Party)

### Line 7
Mr. Don Mottley Save Our Rivers 6222 Yankeetown Hwy Boonville IN 47601 (Affected Party)

### Line 8
Alexandrian Public Library 115 West 5th Mt. Vernon IN 47620 (Library)

### Line 9
Mr. Mark Wilson Evansville Courier & Press P.O. Box 268 Evansville IN 47702-0268 (Affected Party)

### Line 10
Mrs. Connie Parkinson 510 Western Hills Dr. Mt. Vernon IN 47620 (Affected Party)

### Line 11
Robert Hess c/o Mellon Corporation 830 Post Road East, Suite 105 Westport CT 06880 (Affected Party)

### Line 12
Juanita Burton 7911 W. Franklin Road Evansville IN 47712 (Affected Party)

### Line 13
David Boggs 216 Western Hills Dr Mt Vernon IN 47620 (Affected Party)

### Line 14
John Blair 800 Adams Ave Evansville IN 47713 (Affected Party)

### Line 15
Brandon Mogan Tora Consulting 509 Harwich Ct. Lexington SC 29072 (Consultant)

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