



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
www.idem.IN.gov

TO: Interested Parties / Applicant

DATE: March 13, 2009

RE: Firestone Bldg Products / 097 - 27494 - 00140

FROM: Matthew Stuckey, Branch Chief
Permits Branch
Office of Air Quality

Notice of Decision – Approval

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to 326 IAC 2, this approval was effective immediately upon submittal of the application.

If you wish to challenge this decision, IC 4-21.5-3-7 requires that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days from the mailing of this notice.** The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for considerations at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

Enclosures
FNPER-AM.dot12/3/07



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Lance Black
Firestone Building Products Company
3525 South Arlington
Indianapolis, Indiana 46203

March 13, 2009

Re: 097-27494-00140
Second Notice-Only Change to
M 097-23189-00140

Dear Mr. Black:

Firestone Building Products Company was issued a Minor Source Operating Permit (MSOP) Renewal No. M097-23189-00140 on May 22, 2008 for a stationary facility for manufacturing asphalt roofing materials located at 3525 South Arlington, Indianapolis, Indiana 46203. On February 12, 2009, the Office of Air Quality (OAQ) received an application from the source requesting an approval to increase the stack height of the Monsanto Mist Eliminator (MME) of line 1 from 27 feet to 59 feet and to note this change in the TSD. On March 10, 2009, the source requested an approval to increase stack height of the Monsanto Mist Eliminator (MME) of the BUR system (line 2) from 27 feet to 59 feet and to remove the gas flow rate from all the units related to the MME system. These changes to the permit are considered a notice-only change pursuant to 326 IAC 2-6.1-6(d). Therefore, the change in the stack height can be acknowledged in this letter and the description of the stack height will be added to the unit in the permit. Pursuant to the provisions of 326 IAC 2-6.1-6, the permit is hereby revised as follows with the deleted language as ~~strikeouts~~ and new language **bolded**.

- (1) The stack height of 59 feet was added to the description of the stack 1 and stack 4 and the gas flow rate was deleted from the description of the MME system in Section A.2, D.1 and E.1 as follows:

A.2 Emission Units and Pollution Control Equipment Summary

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

- (a) One (1) modified bitumen asphalt roofing line (Line 1), identified as EU-01, constructed in 1990, with a maximum capacity of 18,836 pounds of asphalt compound per hour, and 11,218 pounds of limestone filler per hour. The system consists of three (3) 12-ton capacity mix tanks, one (1) 10-ton capacity mix tank, one (1) 15-ton use tank, and one (1) two section impregnation vat. The system uses a Monsanto Mist Eliminator (MME) identified as CE-01 for control, and exhausts to a **59-foot stack, identified as Stack 1**.
- (b) One (1) Built Up Roofing (BUR) system (Line 2), identified as EU-12, constructed in 1998, with a maximum capacity of 14,182 pounds of asphalt compound per hour, and 13,091 pounds of limestone filler per hour. The system consists of one (1) mixing screw and surge tank, one (1) saturator, or coater, where heated bitumen with limestone filler will be applied to continuously-fed fiberglass, and one (1) sand application process which will apply sand to the surface of the roll roofing (asphalt-saturated fiberglass substrate). The system uses ~~one (1) 11,300 cfm~~ a Monsanto Mist Eliminator (MME) identified as CE-08 for control, and exhausts to a **59-foot stack, identified as Stack 4**.

- (i) Two (2) 3,470 cubic foot (98.25 cubic meters) asphalt storage tanks, installed in 1990, using ~~one (1) 11,300 cfm~~ a Monsanto Mist Eliminator (MME), identified as CE-01 for control, and exhausting to a **59-foot stack, identified as Stack 1.**
- (j) One (1) 3,470 cubic foot (98.25 cubic meter) oxidized asphalt storage tank, installed in 1998, using ~~one (1) 11,300 cfm~~ a Monsanto Mist Eliminator, (MME) identified as CE-08 for control, and exhausting to a **59-foot stack, identified as Stack 4,** or ~~one (1) 11,300 cfm~~ a Monsanto Mist Eliminator (MME), identified as CE-01 for control, and exhausting to a **59-foot stack, identified as Stack 1.**

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

(a) One (1) modified bitumen asphalt roofing line (Line 1), identified as EU-01, constructed in 1990, with a maximum capacity of 18,836 pounds of asphalt compound per hour, and 11,218 pounds of limestone filler per hour. The system consists of three (3) 12-ton capacity mix tanks, one (1) 10-ton capacity mix tank, one (1) 15-ton use tank, and one (1) two section impregnation vat. The system uses a Monsanto Mist Eliminator (MME) identified as CE-01 for control, and exhausts to a **59-foot stack, identified as Stack 1.**

(b) One (1) Built Up Roofing (BUR) system (Line 2), identified as EU-12, constructed in 1998, with a maximum capacity of 14,182 pounds of asphalt compound per hour, and 13,091 pounds of limestone filler per hour. The system consists of one (1) mixing screw and surge tank, one (1) saturator, or coater, where heated bitumen with limestone filler will be applied to continuously-fed fiberglass, and one (1) sand application process which will apply sand to the surface of the roll roofing (asphalt-saturated fiberglass substrate). The system uses ~~one (1) 11,300 cfm~~ a Monsanto Mist Eliminator (MME) identified as CE-08 for control, and exhausts to a **59-foot stack, identified as Stack 4.**

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

SECTION E.1 NSPS REQUIREMENTS

Emission Unit Description: Entire Source

This section applies to the Asphalt Roofing Manufacturing plant.

(1) One (1) modified bitumen asphalt roofing line (Line 1), identified as EU-01, constructed in 1990, with a maximum capacity of 18,836 pounds of asphalt compound per hour. The system consists of three (3) 12-ton capacity mix tanks, one (1) 10-ton capacity mix tank, one (1) 15-ton use tank, and one (1) two section impregnation vat. The system uses a Monsanto Mist Eliminator (MME) identified as CE-01 for control, and exhausts to a **59-foot stack, identified as Stack 1.**

- (2) One (1) Built Up Roofing (BUR) system (Line 2), identified as EU-12, constructed in 1998, with a maximum capacity of 14,182 pounds of asphalt compound per hour. The system consists of one (1) mixing screw and surge tank with a maximum capacity of 23,360 tons of limestone usage per year, one (1) saturator, or coater, where heated bitumen with limestone filler will be applied to continuously-fed fiberglass, and one (1) sand application process which will apply sand to the surface of the roll roofing (asphalt-saturated fiberglass substrate). The system uses ~~one (1) 11,300 cfm~~ a Monsanto Mist Eliminator (MME) identified as CE-08 for control, and exhausts to a **59-foot stack, identified as Stack 4.**
-
- (6) Two (2) 3,470 cubic foot (98.25 cubic meters) asphalt storage tanks, installed in 1990, using ~~one (1) 11,300 cfm~~ a Monsanto Mist Eliminator (MME), identified as CE-01 for control, and exhausting to a **59-foot stack, identified as Stack 1.**
- (7) One (1) 3,470 cubic foot (98.25 cubic meter) oxidized asphalt storage tank, installed in 1998, using ~~one (1) 11,300 cfm~~ a Monsanto Mist Eliminator, (MME) identified as CE-08 for control, and exhausting to a **59-foot stack, identified as Stack 4,** or ~~one (1) 11,300 cfm~~ a Monsanto Mist Eliminator (MME), identified as CE-01 for control, and exhausting to a **59-foot stack, identified as Stack 1.**

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

- (2) Several of IDEM's Branches and sections have been renamed. Therefore, IDEM has updated the addresses listed in the permit. References to Permit Administration and Development Section and the Permits Branch have been changed to Permit Administration and Support Section. References to Asbestos Section, Compliance Data Section, Air Compliance Section, and Compliance Branch have been changed to Compliance and Enforcement Branch.

**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**

**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**

All other conditions of the permit shall remain unchanged and in effect. Attached please find the entire revised permit. A copy of the permit is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>. For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5.
If you have any questions on this matter, please contact Renee Traivaranon, of my staff, at 317-234-5615
or 1-800-451-6027, and ask for extension 4-5615.

Sincerely,



Iryn Calilung, Section Chief
Permits Branch
Office of Air Quality

Attachments

IC/rt

cc: File - Marion County
Marion County Health Department
U.S. EPA, Region V
Compliance and Enforcement Branch
Permit Administration and Support Section



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Minor Source Operating Permit Renewal INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

**Firestone Building Products Company
3525 S. Arlington Avenue
Indianapolis, Indiana 46203**

(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.

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 Minor Source Operating Permit.

This permit is issued to the above mentioned company under the provisions of 326 IAC 2-1.1, 326 IAC 2-6.1 and 40 CFR 52.780, with the conditions listed on the attached pages.

Operation Permit No.: M097-23189-00140	
Original Signed by: Timothy J. Method Environmental Coordinator	Issuance Date: May 22, 2008 Expiration Date: May 22, 2018
Second Notice - Only Change No. 097-27494-00140	Pages Affected: Entire Permit
Issued by:  Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: March 13, 2009 Expiration Date: May 22, 2018

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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.2 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 2-5.1-3(c)][326 IAC 2-6.1-4(a)]

The Permittee owns and operates a stationary facility for manufacturing asphalt roofing materials.

Source Address:	3525 S. Arlington Avenue, Indianapolis, IN 46203
Mailing Address:	3525 S. Arlington Avenue, Indianapolis, IN 46203
General Source Phone Number:	(317) 784-1161
SIC Code:	2952
County Location:	Marion
Source Location Status:	Nonattainment for PM-2.5 Attainment for all other criteria pollutants
Source Status:	Minor Source Operating Permit Program Minor Source, under PSD and Emission Offset Rules

A.2 Emission Units and Pollution Control Equipment Summary

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

- (a) One (1) modified bitumen asphalt roofing line (Line 1), identified as EU-01, constructed in 1990, with a maximum capacity of 18,836 pounds of asphalt compound per hour, and 11,218 pounds of limestone filler per hour. The system consists of three (3) 12-ton capacity mix tanks, one (1) 10-ton capacity mix tank, one (1) 15-ton use tank, and one (1) two section impregnation vat. The system uses a Monsanto Mist Eliminator (MME) identified as CE-01 for control, and exhausts to a 59-foot stack, identified as Stack 1.
- (b) One (1) Built Up Roofing (BUR) system (Line 2), identified as EU-12, constructed in 1998, with a maximum capacity of 14,182 pounds of asphalt compound per hour, and 13,091 pounds of limestone filler per hour. The system consists of one (1) mixing screw and surge tank, one (1) saturator, or coater, where heated bitumen with limestone filler will be applied to continuously-fed fiberglass, and one (1) sand application process which will apply sand to the surface of the roll roofing (asphalt-saturated fiberglass substrate). The system uses a Monsanto Mist Eliminator (MME) identified as CE-08 for control, and exhausts to a 59-foot stack, identified as Stack 4.
- (c) One (1) 100-ton storage silo for calcium carbonate filler material, identified as EU-02, constructed in 1990. Control equipment consists of one (1) Whirl Airflow dust collector identified as CE-04 for control, and exhausts to Stack 2.
- (d) One (1) 50-ton capacity sand storage silo, identified as EU-07, handling 78,465 tons of sand per year, constructed in 1994. The silo is equipped with an Ultra Industries baghouse identified as CE-07 for control, and exhausts to Stack 7.
- (e) One (1) limestone receiving bin, identified as EU-14, constructed in 2001, with a maximum capacity of 23,360 tons of limestone usage per year, using one (1) Whirl Airflow 600 cfm dust collector identified as CE-02 for control, and exhausting to Stack 5.

- (f) One (1) natural gas fired Heatec Thermal Fluid Heater, identified as EU-13, installed in 1989, with a capacity of 6 million Btu per hour, using no controls, and venting to Stack 13.
- (g) One (1) natural gas fired Heatec Thermal Fluid Heater, identified as EU-03, installed in 1989, with a capacity of 6 million Btu per hour, using no controls, and venting to Stack 3.
- (h) One (1) natural gas fired Inferno Therm Polyolefin (APP) Heater, identified as EU-08, installed in 1989, with a capacity of 0.8 million Btu per hour, using no controls, and venting to Stack 8.
- (i) Two (2) 3,470 cubic foot (98.25 cubic meters) asphalt storage tanks, installed in 1990, using a Monsanto Mist Eliminator (MME), identified as CE-01 for control, and exhausting to a 59-foot stack, identified as Stack 1.
- (j) One (1) 3,470 cubic foot (98.25 cubic meter) oxidized asphalt storage tank, installed in 1998, using a Monsanto Mist Eliminator, (MME) identified as CE-08 for control, and exhausting to a 59-foot stack, identified Stack 4, or a Monsanto Mist Eliminator (MME), identified as CE-01 for control, and exhausting to a 59-foot stack, identified as Stack 1.
- (k) One (1) 3,370 cubic foot (95.41 cubic meters) liquid polypropylene storage tank, installed in 1990, using no controls.
- (l) Fourteen (14) seasonally used natural gas space heaters, with a combined maximum capacity of 15.2 MMBtu/hour.

SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-1.1-1]

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 2-1.1-1) shall prevail.

B.2 Permit Term [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]

- (a) This permit, M097-23189-00140, 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

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

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

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

B.7 Duty to Provide Information

- (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. The submittal by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1). 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

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by an "authorized individual" of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, 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 Notification [326 IAC 2-6.1-5(a)(5)]

- (a) An annual notification shall be submitted by an authorized individual to IDEM, OAQ, stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.
- (b) The annual notice shall be submitted in the format attached no later than March 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, 46204-2251
- (c) The notification 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.

B.10 Preventive Maintenance Plan [326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs) 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.
- (b) 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 or potential to emit. The PMPs do not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) 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.11 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of permits established prior to M097-23189-00371 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.12 Termination of Right to Operate [326 IAC 2-6.1-7(a)]

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 ninety (90) days prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-6.1-7.

B.13 Deviations from Permit Requirements and Conditions

- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provisions), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported 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

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. 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.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

B.14 Permit Renewal [326 IAC 2-6.1-7]

- (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 2-6.1-7. Such information shall be included in the application for each emission unit at this source. The renewal application does require the certification 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 ninety (90) days 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 2-6.1 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 in writing by IDEM, OAQ, any additional information identified as being needed to process the application.

B.15 Permit Amendment or Revision [326 IAC 2-5.1-3(e)(3)][326 IAC 2-6.1-6]

- (a) Permit amendments and revision are governed by the requirements of 326 IAC 2-6.1-6 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 shall be certified by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) The Permittee shall notify the OAQ within thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

B.16 Source Modification Requirement

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2.

B.17 Inspection and Entry [326 IAC 2-5.1-3(e)(4)(B)][326 IAC 2-6.1-5(a)(4)][IC 13-14-2-2][IC13-17-3-2][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 permitted 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.18 Transfer of Ownership or Operational Control [326 IAC 2-6.1-6]

- (a) The Permittee must comply with the requirements of 326 IAC 2-6.1-6 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

The application which shall be submitted by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) The Permittee may implement notice-only changes addressed in the request for a notice-only change immediately upon submittal of the request. [326 IAC 2-6.1-6(d)(3)]

B.19 Annual Fee Payment [326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ within thirty (30) calendar days of receipt of a billing.
- (b) The Permittee may call the following telephone number: 1-800-451-6207 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.20 Credible Evidence [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 2-6.1-5(a)(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 Permit Revocation [326 IAC 2-1.1-9]

Pursuant to 326 IAC 2-1.1-9 (Revocation of Permits), this permit to operate may be revoked for any of the following causes:

- (a) Violation of any conditions of this permit.
- (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.
- (c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this permit shall not require revocation of this permit.
- (d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.
- (e) For any cause which establishes in the judgment of IDEM, the fact that continuance of this permit is not consistent with purposes of this article.

C.3 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 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 thirty percent (30%) 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 or incinerate any waste or refuse except as provided in 326 IAC 4-2 and 326 IAC 9-1-2.

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 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 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. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.

Testing Requirements [326 IAC 2-6.1-5(a)(2)]

C.8 Performance Testing [326 IAC 3-6]

- (a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

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 certification 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 certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) 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]

C.9 Compliance Requirements [326 IAC 2-1.1-11]

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.

Compliance Monitoring Requirements [326 IAC 2-6.1-5(a)(2)]

C.10 Compliance Monitoring [326 IAC 2-1.1-11]

Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. All monitoring and record keeping requirements not already legally required shall be implemented when operation begins.

C.11 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60 Appendix B, 40 CFR 63, or other approved methods as specified in this permit.

C.12 Instrument Specifications [326 IAC 2-1.1-11]

- (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.
- (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.

Corrective Actions and Response Steps

C.13 Response to Excursions or Exceedances

- (a) Upon detecting an excursion or exceedance, the Permittee shall 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 emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:
 - (1) initial inspection and evaluation;
 - (2) recording that operations returned 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 within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.
- (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;
- (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 maintain the following records:
 - (1) monitoring data;
 - (2) monitor performance data, if applicable; and
 - (3) corrective actions taken.

C.14 Actions Related to Noncompliance Demonstrated by a Stack Test

- (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 take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ, that retesting in one hundred twenty (120) 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 the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]

C.15 Malfunctions Report [326 IAC 1-6-2]

Pursuant to 326 IAC 1-6-2 (Records; Notice of Malfunction):

- (a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ), or appointed representative upon request.
- (b) When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.
- (c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).

- (d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

C.16 General Record Keeping Requirements[326 IAC 2-6.1-5]

- (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. 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 IDEM Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the IDEM Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.17 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

- (a) Reports required by conditions in Section D of 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
- (b) 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.
- (c) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (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.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

- (a) One (1) modified bitumen asphalt roofing line (Line 1), identified as EU-01, constructed in 1990, with a maximum capacity of 18,836 pounds of asphalt compound per hour, and 11,218 pounds of limestone filler per hour. The system consists of three (3) 12-ton capacity mix tanks, one (1) 10-ton capacity mix tank, one (1) 15-ton use tank, and one (1) two section impregnation vat. The system uses a Monsanto Mist Eliminator (MME) identified as CE-01 for control, and exhausts to a 59-foot stack, identified as Stack 1.
- (b) One (1) Built Up Roofing (BUR) system (Line 2), identified as EU-12, constructed in 1998, with a maximum capacity of 14,182 pounds of asphalt compound per hour, and 13,091 pounds of limestone filler per hour. The system consists of one (1) mixing screw and surge tank, one (1) saturator, or coater, where heated bitumen with limestone filler will be applied to continuously-fed fiberglass, and one (1) sand application process which will apply sand to the surface of the roll roofing (asphalt-saturated fiberglass substrate). The system uses a Monsanto Mist Eliminator (MME) identified as CE-08 for control, and exhausts to a 59-foot stack, identified as Stack 4.

(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 2-6.1-5(a)(1)]

D.1.1 Particulate Emissions Limitations for Manufacturing Processes [326 IAC 6-3]

Pursuant to 326 IAC 6-3-2, the allowable particulate emission rate from the:

- (a) Modified bitumen asphalt roofing line (EU-01) shall not exceed 23.61 lb/hr when operating at a process weight rate of 30,054 lb/hr (15.02 tons/hr).
- (b) Built Up Roofing (BUR) system (EU-12) shall not exceed 25.18 lb/hr when operating at a process weight rate of 27,273 lb/hr (13.64 tons/hr).

The allowable particulate emission rates above were calculated with the following equation:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by the use of the equation:

$$E = 4.10 P^{0.67} \quad \text{Where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

D.1.2 VOC General Reduction Requirements [326 IAC 8-1-6]

Pursuant to 326 IAC 8-1-6, the Permittee shall employ Best Available Control Technology (BACT) for emission unit EU-12. Pursuant to CP-097-0140-01, issued on November 17, 1997, BACT for emission unit EU-12 has been determined to be less than 29 tons of VOC emissions per twelve (12) consecutive month period.

D.1.3 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section B, Preventive Maintenance Plan, of this permit, is required for Line 1 operations (EU-01), Line 2 operations (EU-12), and control devices.

Compliance Determination Requirements

D.1.4 Particulate Matter (PM)

In order to comply with D.1.1:

- (a) The Monsanto Mist Eliminator (CE-01) shall be in operation and control emissions from Line 1 operations (EU-01) at all times that Line 1 (EU-01) is operating.
- (b) The Monsanto Mist Eliminator (CE-08) shall be in operation to control emissions from Line 2 operations (EU-12) at all times that Line 2 (EU12) is operating.

D.1.5 Volatile Organic Compounds (VOC)

In order to comply with D.1.2, VOC emissions from Line 2 operations (EU-12) shall be determined by the following equation:

$$\text{VOC tons per month} = \text{EF} \times \text{A}$$

Where EF = 0.31 pounds per ton, or an emission factor determined from the most recent stack test.

A = Monthly throughput of rolled roofing in tons

D.1.6 Testing Requirements [326 IAC 2-1.1-11]

In order to determine PM, PM10, and VOC emission factors, the Permittee shall perform PM, PM10, and VOC testing no later than 180 days after issuance of this permit on the modified bitumen asphalt roofing line (Line 1), identified as EU-01, and on the Built Up Roofing (BUR) system (Line 2), identified as EU-12, using methods as approved by the IDEM, OAQ. PM10 includes filterable and condensable PM10. Testing shall be conducted in accordance with Section C - Performance Testing, and repeated every 5 years from the date of the most recent compliance determination.

Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)][326 IAC 2-6.1-5(a)(2)]

D.1.7 Visible Emissions Notations

- (a) Visible emission notations of the CE-01 and CE-08 stack exhausts shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal. A notation of abnormal visible emissions is not a deviation from this permit.
- (b) 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.
- (c) 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.
- (d) 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.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedences. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedences

shall be considered a deviation from this permit.

D.1.8 Monsanto Mist Eliminator Parameter Monitoring

- (a) The Permittee shall record the pressure drop across the Monsanto Mist Eliminators (CE-01 and CE-08) used in conjunction with either Line 1 or Line 2 at least once per day when the roofing lines are in operation. When for any one reading, the pressure drop across the Monsanto Mist Eliminator is outside the normal range of three (3) and twelve (12) inches of water, or a range established during the most recent stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.
- (b) The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.1.9 Record Keeping Requirements

- (a) To document compliance with Condition D.1.2, the Permittee shall maintain records of monthly throughput of rolled roofing in tons on Line 2 and the associated VOC emissions per month.
- (b) To document compliance with Condition D.1.7, the Permittee shall maintain a record of the daily visible emission notations of the CE-01 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).
- (c) To document compliance with Condition D.1.8, the Permittee shall maintain a daily record of the pressure drop across the Monsanto Mist Eliminators (CE-01 and CE-08). The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading, (e.g., the process did not operate that day).
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.10 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.1.2 shall be submitted to the addresses listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported.

SECTION D.2

EMISSIONS UNIT OPERATION CONDITIONS

- (c) One (1) 100-ton storage silo for calcium carbonate filler material, identified as EU-02, constructed in 1990. Control equipment consists of one (1) Whirl Airflow dust collector identified as CE-04 for control, and exhausts to Stack 2.
- (d) One (1) 50-ton capacity sand storage silo, identified as EU-07, handling 78,465 tons of sand per year, constructed in 1994. The silo is equipped with an Ultra Industries baghouse identified as CE-07 for control, and exhausts to Stack 7.
- (e) One (1) limestone receiving bin, identified as EU-14, constructed in 2001, with a maximum capacity of 23,360 tons of limestone usage per year, using one (1) Whirl Airflow 600 cfm dust collector identified as CE-02 for control, and exhausting to Stack 5.

(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 2-6.1-5(a)(1)]

D.2.1 Particulate Emissions Limitations for Manufacturing Processes [326 IAC 6-3]

Pursuant to 326 IAC 6-3-2, the allowable particulate emission rate from the:

- (a) Calcium carbonate storage (EU-02) shall not exceed 6.03 lb/hr when operating at a process weight rate of 3,560 lb/hr (1.78 tons/hr).
- (b) Sand storage silo (EU-07) shall not exceed 4.52 lb/hr when operating at a process weight rate of 2,330 lb/hr (1.16 tons/hr).
- (c) Limestone receiving bin (EU-14) shall not exceed 7.89 lb/hr when operating at a process weight rate of 5,333 lb/hr (2.66 tons/hr).

The allowable particulate emission rates above were calculated with the following equation:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by the use of the equation:

$$E = 4.10 P^{0.67} \quad \text{Where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

D.2.2 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for EU-02, EU-07, EU-14, and their control devices.

SECTION D.3

EMISSIONS UNIT OPERATION CONDITIONS

- (f) One (1) natural gas fired Heatec Thermal Fluid Heater, identified as EU-13, installed in 1989, with a capacity of 6 million Btu per hour, using no controls, and venting to Stack 13.
- (g) One (1) natural gas fired Heatec Thermal Fluid Heater, identified as EU-03, installed in 1989, with a capacity of 6 million Btu per hour, using no controls, and venting to Stack 3.
- (h) One (1) natural gas fired Inferno Therm Polyolefin (APP) Heater, identified as EU-08, installed in 1989, with a capacity of 0.8 million Btu per hour, using no controls, and venting to Stack 8.
- (l) Fourteen (14) seasonally used natural gas space heaters, with a combined maximum capacity of 15.2 MMBtu/hour.

(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 2-6.1-5(a)(1)]

D.3.1 Particulate Matter Emissions (PM) [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Indirect Heating), particulate emissions from the EU-03, and EU-13 shall be limited to 0.57 pounds per million British thermal units (lbs/MMBtu) based on the following equation:

$$Pt = 1.09 / Q^{0.26}$$

Where:

- Pt = Pounds of particulate matter emitted per million Btu (lb/MMBtu) heat input.
- Q = Total source maximum operating capacity rating in million Btu per hour (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. Q for EU-03 and EU-13 is 12 MMBtu/hr.

SECTION E.1

NSPS REQUIREMENTS

Emission Unit Description: Entire Source

This section applies to the Asphalt Roofing Manufacturing plant.

Under NSPS Subpart UU, the asphalt roofing material facility is considered an affected source. The specific facilities include the following:

- (1) One (1) modified bitumen asphalt roofing line (Line 1), identified as EU-01, constructed in 1990, with a maximum capacity of 18,836 pounds of asphalt compound per hour. The system consists of three (3) 12-ton capacity mix tanks, one (1) 10-ton capacity mix tank, one (1) 15-ton use tank, and one (1) two section impregnation vat. The system uses a Monsanto Mist Eliminator (MME) identified as CE-01 for control, and exhausts to a 59-foot stack, identified as Stack 1.
- (2) One (1) Built Up Roofing (BUR) system (Line 2), identified as EU-12, constructed in 1998, with a maximum capacity of 14,182 pounds of asphalt compound per hour. The system consists of one (1) mixing screw and surge tank with a maximum capacity of 23,360 tons of limestone usage per year, one (1) saturator, or coater, where heated bitumen with limestone filler will be applied to continuously-fed fiberglass, and one (1) sand application process which will apply sand to the surface of the roll roofing (asphalt-saturated fiberglass substrate). The system uses a Monsanto Mist Eliminator (MME) identified as CE-08 for control, and exhausts to a 59-foot stack, identified as Stack 4.
- (3) One (1) 100-ton storage silo for calcium carbonate filler material, identified as EU-02, constructed in 1990. Control equipment consists of one (1) Whirl Airflow dust collector identified as CE-04 for control, and exhausts to Stack 2.
- (4) One (1) 50-ton capacity sand storage silo, identified as EU-07, handling 78,465 tons of sand per year, constructed in 1994. The silo is equipped with an Ultra Industries baghouse identified as CE-07 for control, and exhausts to Stack 7.
- (5) One (1) limestone receiving bin, identified as EU-14, constructed in 2001, with a maximum capacity of 23,360 tons of limestone usage per year, using one (1) Whirl Airflow 600 cfm dust collector identified as CE-02 for control, and exhausting to Stack 5.
- (6) Two (2) 3,470 cubic foot (98.25 cubic meters) asphalt storage tanks, installed in 1990, using a Monsanto Mist Eliminator (MME), identified as CE-01 for control, and exhausting to a 59-foot stack, identified as Stack 1.
- (7) One (1) 3,470 cubic foot (98.25 cubic meter) oxidized asphalt storage tank, installed in 1998, using a Monsanto Mist Eliminator, (MME) identified as CE-08 for control, and exhausting to a 59-foot stack, identified as Stack 4, or a Monsanto Mist Eliminator (MME), identified as CE-01 for control, and exhausting to a 59-foot stack, identified as Stack 1.
- (8) One (1) 3,370 cubic foot (95.41 cubic meters) liquid polypropylene storage tank, installed in 1990, using no controls.

(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

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 asphalt roofing materials manufacturing facility except as otherwise specified in 40 CFR Part 60, Subpart UU.

E.1.2 Standards of Performance for Asphalt Processing and Asphalt Roofing Manufacture [40 CFR 60 Subpart UU] [40 CFR 60.470]

The Permittee which engages in asphalt roofing manufacturing shall comply with the following provisions of 40 CFR 60, Subpart UU (included as Attachment A of this permit):

- (1) 40 CFR 60.472 (a)(1)(i)(ii)
- (2) 40 CFR 60.472 (a)(2)
- (3) 40 CFR 60.472 (a)(3)
- (4) 40 CFR 60.472 (b)(1)
- (5) 40 CFR 60.472 (b)(2)
- (6) 40 CFR 60.472 (b)(3)
- (7) 40 CFR 60.472 (b)(4)
- (8) 40 CFR 60.472 (b)(5)
- (9) 40 CFR 60.472 (c)
- (10) 40 CFR 60.472 (d)
- (11) 40 CFR 60.473 (a)
- (12) 40 CFR 60.473 (b)
- (13) 40 CFR 60.473 (c)
- (14) 40 CFR 60.473 (d)
- (15) 40 CFR 60.474 (a)(1)
- (16) 40 CFR 60.474 (a)(2)
- (17) 40 CFR 60.474 (a)(3)
- (18) 40 CFR 60.474 (b)
- (19) 40 CFR 60.474 (c)(1)
- (20) 40 CFR 60.474 (c)(2)
- (21) 40 CFR 60.474 (c)(3)
- (22) 40 CFR 60.474 (c)(4)(i)
- (23) 40 CFR 60.474 (c)(4)(ii)
- (24) 40 CFR 60.474 (c)(5)
- (25) 40 CFR 60.474 (d)
- (26) 40 CFR 60.474 (e)
- (27) 40 CFR 60.474 (f)(1)
- (28) 40 CFR 60.474 (f)(2)
- (29) 40 CFR 60.474 (g)

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
Compliance and Enforcement Branch**

**MINOR SOURCE OPERATING PERMIT (MSOP)
CERTIFICATION**

Source Name: Firestone Building Products Company
Source Address: 3525 South Arlington Avenue, Indianapolis, Indiana 46203
Mailing Address: 3525 South Arlington Avenue, Indianapolis, Indiana 46203
MSOP No.: M097-23189-00140

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 Notification
- 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:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 Office of Air Quality
 Compliance and Enforcement Branch**

MSOP Quarterly Report

Source Name: Firestone Building Products
 Source Address: Firestone Building Products
 3525 South Arlington Avenue, Indianapolis, Indiana 46203
 Mailing Address: Firestone Building Products
 3525 South Arlington, Indianapolis, Indiana 46203
 MSOP Permit No.: M097-23189-00140
 Facility: Line 2 (Including Asphalt Mixer and Surge Tank)
 Parameter: Monthly throughput of rolled roofing in tons on Line 2 and the associated VOC emissions per month.
 Limit: 29 tons per rolling twelve (12) consecutive month period
 VOC tons per month = EF x A,
 Where EF = 0.31 pounds per ton, or an emission factor determined from the most recent stack test.
 A = Monthly throughput of rolled roofing in tons.

QUARTER _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

Submitted by:
 Title / Position:
 Signature:
 Date:
 Phone:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
Office of Air Quality
Compliance and Enforcement Branch

MINOR SOURCE OPERATING PERMIT
QUARTERLY COMPLIANCE MONITORING REPORT

Source Name: Firestone Building Products
Source Address: 3525 South Arlington Avenue, Indianapolis, IN 46203
Mailing Address: 3525 South Arlington Avenue, Indianapolis, IN 46203
MSOP No.: M097-23189-00140

Months: _____ to _____ Year: _____

This report is an affirmation that the source has met all the compliance monitoring requirements stated in this permit. This report shall be submitted quarterly. Any deviation from the compliance monitoring requirements and the date(s) of each deviation must be reported. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

9 NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

9 THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD.

Compliance Monitoring Requirement (e.g. Permit Condition D.1.3)	Number of Deviations	Date of each Deviation

Form Completed By:
Title/Position:
Date:
Phone:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
Office of Air Quality
Compliance and Enforcement Branch

MINOR SOURCE OPERATING PERMIT
ANNUAL NOTIFICATION

This form should be used to comply with the notification requirements under 326 IAC 2-6.1-5(a)(5).

Company Name:	Firestone Building Products Company
Address:	3525 South Arlington Avenue
City:	Indianapolis, Indiana, 46203
Phone #:	317-784-1161
MSOP #:	M097-23189-00140

I hereby certify that Firestone Building Products Company is
 still in operation.
 no longer in operation.

I hereby certify that Firestone Building Products Company is
 in compliance with the requirements of MSOP 097-23189-00140.
 not in compliance with the requirements of MSOP 097-23189-00140.

Authorized Individual (typed):
Title:
Signature:
Date:

If there are any conditions or requirements for which the source is not in compliance, provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be achieved.

Noncompliance:

MALFUNCTION REPORT
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
FAX NUMBER - 317 233-6865

This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.

THIS FACILITY MEETS THE APPLICABILITY REQUIREMENTS BECAUSE IT HAS POTENTIAL TO EMIT 25 TONS/YEAR PARTICULATE MATTER ?_____, 25 TONS/YEAR SULFUR DIOXIDE ?_____, 25 TONS/YEAR NITROGEN OXIDES?_____, 25 TONS/YEAR VOC ?_____, 25 TONS/YEAR HYDROGEN SULFIDE ?_____, 25 TONS/YEAR TOTAL REDUCED SULFUR ?_____, 25 TONS/YEAR REDUCED SULFUR COMPOUNDS ?_____, 25 TONS/YEAR FLUORIDES ?_____, 100TONS/YEAR CARBON MONOXIDE ?_____, 10 TONS/YEAR ANY SINGLE HAZARDOUS AIR POLLUTANT ?_____, 25 TONS/YEAR ANY COMBINATION HAZARDOUS AIR POLLUTANT ?_____, 1 TON/YEAR LEAD OR LEAD COMPOUNDS MEASURED AS ELEMENTAL LEAD ?_____, OR IS A SOURCE LISTED UNDER 326 IAC 2-5.1-3(2) ?_____. EMISSIONS FROM MALFUNCTIONING CONTROL EQUIPMENT OR PROCESS EQUIPMENT CAUSED EMISSIONS IN EXCESS OF APPLICABLE LIMITATION _____.

THIS MALFUNCTION RESULTED IN A VIOLATION OF: 326 IAC _____ OR, PERMIT CONDITION # _____ AND/OR PERMIT LIMIT OF _____

THIS INCIDENT MEETS THE DEFINITION OF 'MALFUNCTION' AS LISTED ON REVERSE SIDE ? Y N

THIS MALFUNCTION IS OR WILL BE LONGER THAN THE ONE (1) HOUR REPORTING REQUIREMENT ? Y N

COMPANY: _____ PHONE NO. () _____

LOCATION: (CITY AND COUNTY) _____

PERMIT NO. _____ AFS PLANT ID: _____ AFS POINT ID: _____ INSP: _____

CONTROL/PROCESS DEVICE WHICH MALFUNCTIONED AND REASON: _____

DATE/TIME MALFUNCTION STARTED: ____/____/20____ _____ AM / PM

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION:

DATE/TIME CONTROL EQUIPMENT BACK-IN SERVICE ____/____/20____ _____ AM/PM

TYPE OF POLLUTANTS EMITTED: TSP, PM-10, SO2, VOC, OTHER: _____

ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: _____

MEASURES TAKEN TO MINIMIZE EMISSIONS: _____

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:

CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL* SERVICES: _____

CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS: _____

CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT: _____

INTERIM CONTROL MEASURES: (IF APPLICABLE) _____

MALFUNCTION REPORTED BY: _____ TITLE: _____

(SIGNATURE IF FAXED)

MALFUNCTION RECORDED BY: _____ DATE: _____ TIME: _____

*SEE PAGE 2

PAGE 1 OF 2

**Please note - This form should only be used to report malfunctions
applicable to Rule 326 IAC 1-6 and to qualify for
the exemption under 326 IAC 1-6-4.**

326 IAC 1-6-1 Applicability of rule

Sec. 1. This rule applies to the owner or operator of any facility required to obtain a permit under 326 IAC 2-5.1 or 326 IAC 2-6.1.

326 IAC 1-2-39 "Malfunction" definition

Sec. 39. Any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner.

***Essential services** are interpreted to mean those operations, such as, the providing of electricity by power plants. Continued operation solely for the economic benefit of the owner or operator shall not be sufficient reason why a facility cannot be shutdown during a control equipment shutdown.

If this item is checked on the front, please explain rationale:

Attachment A

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

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

§ 60.470 Applicability and designation of affected facilities.

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

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

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

§ 60.471 Definitions.

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

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

Asphalt processing means the storage and blowing of asphalt.

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

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

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

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

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

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

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

High velocity air filter (HVAF) means an air pollution control filtration device for the removal of sticky, oily, or

liquid aerosol particulate matter from exhaust gas streams.

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

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

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

§ 60.472 Standards for particulate matter.

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

(1) Particulate matter in excess of:

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

(ii) 0.04 kg/Mg (0.08 lb/ton) of saturated felt or smooth-surfaced roll roofing produced;

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

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

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

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

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

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

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

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

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

control device for a saturator, the combined emissions shall meet the emission limit contained in paragraph (a) of this section during the time the saturator control device is operating. At any other time the asphalt storage tank(s) must meet the opacity limit specified above for storage tanks.

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

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

§ 60.473 Monitoring of operations.

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

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

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

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

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

§ 60.474 Test methods and procedures.

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

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

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

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

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

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

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

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

where:

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

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

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

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

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

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

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

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

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

where:

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

V=volume of asphalt charged, m^3 (ft^3).

d=density of asphalt, kg/m^3 (lb/ft^3).

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

Θ =duration of test run, hr.

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

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

$$d = K_1 - K_2 T_i$$

Where:

d = Density of the asphalt, kg/m^3 (lb/ft^3)

K_1 = 1056.1 kg/m^3 (metric units)

= 64.70 lb/ft^3 (English Units)

K_2 = 0.6176 $kg/(m^3 \text{ } ^\circ C)$ (metric units)

= 0.0694 lb/(ft³ °F) (English Units)

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

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

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

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

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

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

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

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

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