



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL MODIFICATION
WARREN COUNTY**

CERTIFIED MAIL

Street Address:

50 West Town Street, Suite 700

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:
Lazarus Gov. Center
P.O. Box 1049

Application No: 14-05782

Fac ID: 1483040007

DATE: 2/6/2007

IKO Production Inc.
David Foulkes
1200 S. Main St.
Franklin, OH 45005-0000

Enclosed Please find a modification to the Ohio EPA Permit To Install referenced above which will modify the terms and conditions.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00 which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, OH 43215

Sincerely,

Michael W. Ahern, Manager
Permit Issuance and Data Management Section
Division of Air Pollution Control

CC: USEPA

HCDES



Permit To Install
Terms and Conditions

Issue Date: 2/6/2007
Effective Date: 2/6/2007

FINAL ADMINISTRATIVE MODIFICATION OF PERMIT TO INSTALL 14-05782

Application Number: 14-05782
Facility ID: 1483040007
Permit Fee: **\$0**
Name of Facility: IKO Production Inc.
Person to Contact: David Foulkes
Address: 1200 S. Main St.
Franklin, OH 45005-0000

Location of proposed air contaminant source(s) [emissions unit(s)]:
1200 S. Main St.
Franklin, Ohio

Description of proposed emissions unit(s):
Administrative Modification to PTI 14-05782 issued as a Direct Final on 5/18/2006 in order to have the PTI designated as a Synthetic Minor PTI and issued in Draft/Final format.

The above named entity is hereby granted a modification to the permit to install described above pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this modification does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described source(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans included in the application, the above described source(s) of pollutants will be granted the necessary operating permits.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Chris Korleski
Director

Part I - GENERAL TERMS AND CONDITIONS

A. Permit to Install General Terms and Conditions

1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

2. Reporting Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted (i.e., postmarked) quarterly by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

3. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon

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the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

6. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

7. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

8. Termination of Permit to Install

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

9. Construction of New Sources(s)

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The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

10. Public Disclosure

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

11. Applicability

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

12. Best Available Technology

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

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13. Source Operation and Operating Permit Requirements After Completion of Construction

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the emissions unit(s) covered by this permit.

14. Construction Compliance Certification

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

15. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

B. Permit to Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

SUMMARY (for informational purposes only)
 TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons Per Year</u>
PE/PM10	49.55
OC	45.96
CO	0.25

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Operations, Property, and/or Equipment - (P002) - 41 TPH asphalt shingle main production line with Monsanto fabric filter, CVM fabric filters and Flex Kleen fabric filters; mixer, coater, heater, cooling section, cutter, laminator, wrapper - Modification

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	<p>Particulate emissions (PE) from the Monsanto unit stack shall not exceed 2.2 pounds per hour.</p> <p>Fugitive particulate emissions (PE) shall not exceed 13.1 pounds per hour.</p> <p>Particulate matter 10 microns and less in diameter (PM10) emissions from the Monsanto unit stack shall not exceed 2.2 pounds per hour.</p> <p>Fugitive particulate matter 10 microns and less in diameter (PM10) emissions shall not exceed 13.1 pounds per hour.</p> <p>Carbon monoxide (CO) emissions shall not exceed 0.08 pound per hour.</p> <p>Organic Compound (OC) emissions from the Monsanto unit stack shall not exceed 13.1 pounds per hour.</p> <p>Fugitive organic compound (OC) emissions shall not exceed 1.1 pounds per hour.</p> <p>Visible fugitive emissions shall not exceed 20 percent opacity as a three-minute average.</p> <p>See term and condition B.1 and B.2.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-05(C) and 3745-17-07(A)(1) and 40 CFR Part 60, Subpart UU.</p>

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OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20 percent opacity as a six-minute average, except as specified by rule.
OAC rule 3745-17-07(B)	Not applicable; non-appendix A area
OAC rule 3745-17-08(B)	Not applicable; non-appendix A area
OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-31-05(C) Synthetic Minor to Avoid Title V Requirements	<p>The following applicable emissions limitations shall be based on rolling, 12-month summations:</p> <p>Particulate emissions (PE) shall not exceed 49.55 tons per year (TPY) including stack and fugitive emissions.</p> <p>Particulate matter 10 microns and less in diameter (PM10) emissions shall not exceed 49.55 TPY including stack and fugitive emissions.</p> <p>Carbon monoxide (CO) emissions shall not exceed 0.25 TPY.</p> <p>Organic Compound (OC) emissions shall not exceed 45.96 TPY including stack and fugitive emissions.</p> <p>See term and condition A.2.b.</p>
40 CFR Part 60.472(a)(1)(i)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- 2.a** The hourly emission limitations specified in Section A are based upon the emissions unit's Potential to Emit (PTE). Therefore, no records are required to demonstrate compliance with these limitations.
- 2.b** The permittee has existing records to demonstrate compliance with the rolling 12 month emission limitations upon permit issuance.
- 2.c** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of fabric filters and mist eliminators, compliance with the rolling, 12-month asphalt coated shingle production rate limitation, and compliance with the visible

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emission limitations and the PE/PM10, CO, and OC emission limitations.

- 2.d** The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements of 40 CFR Part 60 are also federally enforceable.

B. Operational Restrictions

1. The maximum annual asphalt coated shingle production rate for this emissions unit shall not exceed 265,680 tons per year, based upon a rolling, 12-month summation of the asphalt coated shingle production rates. This emissions unit has been in operation for more than 12 months and, as such, the permittee has existing records to generate the rolling, 12-month summation of the production rate, upon issuance of this permit.
2. The pressure drop across the Monsanto mist eliminator/filter shall be maintained within the range of 3 to 20 inches of water, as recommended (in writing) by the manufacturer of the Monsanto unit or by a range, as yet to be established during an emissions test, that demonstrates the emissions unit to be in compliance.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following information to be completed at the end of each month:
 - a. the asphalt coated shingle production rate, in tons, for each month;
 - b. the rolling, 12-month summation of the asphalt coated shingle production rates, in tons, for each month;
 - c. the updated rolling, 12-month summation of the actual PE/PM10, OC and CO emissions, from the emissions unit, in tons, for each month. This shall include the information for the current month and the preceding eleven months:
 - i. [the actual asphalt coated shingle production rate from C.1.b (tons of asphalt coated shingles/rolling, 12-month period) x controlled stack emission factor (lbs of PE/PM10/ton of asphalt coated shingles produced) x 1 ton/2000 lbs] + [the actual asphalt coated shingle production rate from C.1.b (tons of asphalt coated shingles/rolling, 12-month period) x

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uncontrolled emission factor (lbs of PE/PM10/ton of asphalt coated shingles produced) x (1 - capture efficiency/100) x 1 Ton/2000 lbs] = tons of PE/PM10 per rolling, 12-month period;

- ii. [the actual asphalt coated shingle production rate from C.1.b (tons of asphalt coated shingles/rolling, 12-month period) x stack emission factor (lbs of OC/ton of asphalt coated shingles produced) x 1 Ton/2000 lbs] + [the actual asphalt coated shingle production rate from C.1.b (tons of asphalt coated shingles/rolling, 12-month period) x uncontrolled emission factor (lbs of OC/ton of asphalt coated shingles produced) x (1 - capture efficiency/100) x 1 Ton/2000 lbs] = Tons of OC per rolling, 12-month period; and
 - iii. [the actual asphalt coated shingle production rate from C.1.b (tons of asphalt coated shingles/rolling, 12-month period) x emission factor (lbs of CO/ton asphalt coated shingles produced) x 1 Ton/2000 lbs] = tons of CO per rolling, 12-month period.
2. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the Monsanto mist eliminator/filter while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the Monsanto mist eliminator/filter on a daily basis.
 3. The permittee shall perform weekly checks, when the emissions unit is in operation, and when the weather conditions allow, for any visible emissions of fugitive PE from the building and/or visible emissions from the Monsanto unit stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emissions incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the rolling, 12-month asphalt coated shingle production limitation specified in term and condition B.1. The reports shall be submitted to Hamilton County Department of Environmental Services by January 31, April 30, July 31 and October 31

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- of each year and shall cover the previous three calendar months (October through December, January through March, April through June and July through September, respectively.) If no exceedances occurred, the permittee shall state so in the report.
2. The permittee shall notify the Hamilton County Department of Environmental Services of all periods of time during which the pressure drop across the Monsanto mist eliminator/filter did not comply with the allowable range specified in term and condition B.2. The reports shall be submitted to Hamilton County Department of Environmental Services by January 31, April 30, July 31 and October 31 of each year and shall cover the previous three calendar months (October through December, January through March, April through June and July through September, respectively.) If no exceedances occurred, the permittee shall state so in the report.
 3. The permittee shall submit semi-annual reports that (a) identify all weeks during which any visible emissions were observed from the Monsanto unit stack serving this emissions unit or any visible emissions of fugitive dust from the building were observed and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Hamilton County Department of Environmental Services by January 31 and July 31 of each year and shall cover the previous 6-month period and shall include copies of all Method 9 readings that were performed, if any.
 4. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the rolling, 12-month PE, PM10, CO or OC emission limitations set forth in term and condition A.1. The reports shall be submitted to the Director (the Hamilton County Department of Environmental Services) by January 31, April 30, July 31 and October 31 of each year and shall cover the previous three calendar months (October through December, January through March, April through June and July through September, respectively.) If no exceedances occurred, the permittee shall state so in the report.
 5. The permittee shall submit annual reports that specify the total PE, PM10, and OC emissions for this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year. The Synthetic Minor Fee Emission Report (FER) required to be submitted annually by April 15 for the facility will also satisfy the emission reporting requirement of this condition.
 6. Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:
 - a. construction date (no later than 30 days after such date);
 - b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
 - c. actual start-up date (within 15 days after such date); and

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d. date of performance testing (If required, at least 30 days prior to testing).

Reports are to be sent to:

Hamilton County Department of Environmental Services
250 William Howard Taft Road
Cincinnati, Ohio 45219

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E. Testing Requirements

1. Compliance with the emission limitations in Section A.1 of these terms and conditions shall be determined in accordance with the following methods:

Emission Limitations:

Particulate emissions (PE) from the Monsanto Unit stack shall not exceed 2.2 pounds per hour; and
Organic Compound (OC) emissions from the Monsanto Unit stack shall not exceed 13.1 pounds per hour.

Applicable Compliance Methods:

The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

- i. the emission testing shall be conducted within 6 months after issuance of this permit;
- ii. the emission testing shall be conducted to demonstrate compliance with the allowable mass emissions rate limitations for particulates and OCs;
- iii. the following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):
 - a. for PE, Methods 1-5 of 40 CFR Part 60, Appendix A; and
 - b. for OCs, Methods 1-4 and 25 of 40 CFR Part 60, Appendix A

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- iv. the test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency;
- v. not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating

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parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s);

- vi. personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment; and
- vii. a comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

Emission Limitations:

Fugitive particulate emissions (PE) shall not exceed 13.1 pounds per hour;
 Fugitive particulate matter 10 microns and less in diameter (PM10) emissions shall not exceed 13.1 pounds per hour;
 Fugitive organic compound (OC) emissions shall not exceed 1.1 pounds per hour; and
 Carbon monoxide (CO) emissions shall not exceed 0.08 pound per hour.

Applicable Compliance Methods:

Compliance shall be demonstrated through emission calculations and based on the maximum asphalt shingle production throughput based on data provided in the air permit to install application number 14-05782 submitted on November 3, 2005.

PE emission factor = 3.2 lbs of PE/PM10/ton of asphalt shingles produced (AP-42, 11.2, 1/95);

OC emission factor = 0.26 lb of OC/ton of asphalt shingles produced (AP-42, 11.2, 1/95);

CO emission factor = 0.0019 lb of CO/ton of asphalt shingles produced (AP-42, 11.2, 1/95);

Estimated Monsanto Unit capture efficiency = 90%;

Asphalt shingle production rate = 41 tons of asphalt shingles produced /hr which is the maximum production rate of this emissions unit;

41 tons of asphalt shingle produced/hour x 3.2 lbs of PE/PM10/ton of asphalt shingle produced x (1-0.90) = 13.1 pounds per hour of PE/PM10. PM10 is assumed to be equal

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to PE;

41 tons of asphalt shingles produced/hour x 0.26 lb of OC/ton of asphalt shingles produced x (1-0.90) = 1.1 pounds per hour of OC; and

41 tons of asphalt shingles produced/hour x 0.0019 lb of CO/ton asphalt shingle = 0.08 pound per hour of CO.

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Emissions Limitation:

Visible fugitive of PE shall not exceed 20 percent opacity as a three-minute average.

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9, as such appendix existed on July 1, 2002, and the procedures specified in OAC rule 3745-17-03(B)(3).

Emissions Limitation:

Visible particulate emissions from any stack shall not exceed 20 percent opacity as a six-minute average, except as specified by rule.

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

Emissions Limitations:

Particulate emissions (PE) shall not exceed 49.55 TPY including stack emissions and fugitive (uncontrolled) emissions;
Particulate matter 10 microns and less in diameter (PM10) emissions shall not exceed 49.55 TPY including stack emissions and fugitive (uncontrolled) emissions;
Carbon monoxide (CO) emissions shall not exceed 0.25 TPY; and
Organic Compound (OC) emissions shall not exceed 45.96 TPY including stack and fugitive (uncontrolled) emissions.

Applicable Compliance Methods:

Compliance shall be determined by the record keeping requirements in term and condition C.1.c. Additionally, the emission factors may be either based on factors to be developed (TBD) from the most recent compliance test(s) demonstrating compliance with the applicable short-term emission limitations, in the case of PE and OC emissions, or based on AP-42 emission factors, in the case of PE, OC and/or CO emissions.

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Controlled PE emission factor = TBD or 0.053 lb of PE/PM10/ton of asphalt shingles produced (AP-42, 11.2, 1/95);

Uncontrolled PE emission factor = 3.2 lbs of PE/PM10/ton of asphalt shingles produced (AP-42, 11.2, 1/95);

Controlled OC emission factor = TBD or 0.32 lb of OC/ton of asphalt shingles produced (AP-42, Chapter 11.2, 1/95);

Uncontrolled OC emission factor = 0.26 lb of OC/ton asphalt shingles produced (AP-42, Chapter 11.2, 1/95);

CO emission factor = 0.0019 lb of CO/ton of asphalt shingles produced (AP-42, Chapter 11.2, 1/95); and,

Estimated Monsanto Unit capture efficiency = 90%.

2. Compliance with the production limitation in term and condition B.1 shall be demonstrated by the record keeping requirements in term and condition C.1.
3. Compliance with the pressure drop limitation in term and condition B.2 shall be demonstrated by the record keeping requirements in term and condition C.2.

F. Miscellaneous Requirements

1. The following terms and conditions of this air permit-to-install shall be federally enforceable: A, B, C, D, and E.
2. The terms and conditions of this air permit-to-install shall supersede the terms and conditions of air permit to install number 14-05782 issued on May 18, 2006.