



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL  
ERIE 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: 03-17284**

**Fac ID: 0322000017**

**DATE: 7/26/2007**

CertainTeed Corporation - Avery Facility  
Marko Zeck  
11519 US Route 250N  
Milan, OH 44846

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

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

NWDO



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**Permit To Install  
Terms and Conditions**

**Issue Date: 7/26/2007  
Effective Date: 7/26/2007**

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**FINAL PERMIT TO INSTALL 03-17284**

Application Number: 03-17284  
Facility ID: 0322000017  
Permit Fee: **\$2750**  
Name of Facility: CertainTeed Corporation - Avery Facility  
Person to Contact: Marko Zeck  
Address: 11519 US Route 250N  
Milan, OH 44846

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**11519 State Route 250N  
Milan, Ohio**

Description of proposed emissions unit(s):  
**Modification to shingle production facility.**

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit 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 emissions unit(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 and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

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Chris Korleski  
Director

**Part I - GENERAL TERMS AND CONDITIONS****A. State and Federally Enforceable Permit-To-Install General Terms and Conditions****1. Monitoring and Related Recordkeeping and Reporting Requirements**

- a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
  - i. The date, place (as defined in the permit), and time of sampling or measurements.
  - ii. The date(s) analyses were performed.
  - iii. The company or entity that performed the analyses.
  - iv. The analytical techniques or methods used.
  - v. The results of such analyses.
  - vi. The operating conditions existing at the time of sampling or measurement.
- b. 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.
- c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
  - i. Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
  - ii. Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to the appropriate Ohio EPA District Office or local air agency. The written

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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. See B.9 below if no deviations occurred during the quarter.

- iii. Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted (i.e., postmarked) to the appropriate Ohio EPA District Office or local air agency every six months, by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.
  - iv. If this permit is for an emissions unit located at a Title V facility, then each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.
- d. The permittee shall report actual emissions pursuant to OAC Chapter 3745-78 for the purpose of collecting Air Pollution Control Fees.

## **2. 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, i.e., upset, 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. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to 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 emission unit(s) that is (are) served by such control system(s).

## **3. Risk Management Plans**

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.

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**4. Title IV Provisions**

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

**5. Severability Clause**

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.

**6. General Requirements**

- a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and re-issuance, or modification
- b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c. This permit may be modified, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d. This permit does not convey any property rights of any sort, or any exclusive privilege.
- e. 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 or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

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**7. 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 any permit-to-install. The permittee shall pay all applicable permit-to-operate fees within thirty days of the issuance of the invoice.

**8. Federal and State Enforceability**

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA and the State and by citizens (to the extent allowed by section 304 of the Act) under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

**9. Compliance Requirements**

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.
- b. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
  - i. At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
  - ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with ORC section 3704.08.
  - iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.

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- iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
  - i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
  - ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

#### **10. Permit-To-Operate Application**

- a. If the permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77, the permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).
- b. If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35, the source(s) identified in this permit is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. 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 source(s) covered by this permit.

#### **11. 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.

#### **12. Air Pollution Nuisance**

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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.

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### **13. Permit-To-Install**

A permit-to-install must be obtained pursuant to OAC Chapter 3745-31 prior to "installation" of "any air contaminant source" as defined in OAC rule 3745-31-01, or "modification", as defined in OAC rule 3745-31-01, of any emissions unit included in this permit.

## **B. State Only Enforceable Permit-To-Install General Terms and Conditions**

### **1. Compliance Requirements**

The emissions unit(s) identified in this Permit 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 of state-only enforceable 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 state-only required 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. 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

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of any transfer of this permit.

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**4. Authorization To Install or Modify**

If applicable, authorization to install or modify any new or existing emissions unit included in this permit shall terminate within eighteen months of the effective date of the permit 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.

**5. Construction of New Sources(s)**

This permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. This permit does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the application and terms and conditions of this permit. 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 this permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Issuance of this permit 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.

**6. 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.

**7. Applicability**

This Permit to Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

**8. Construction Compliance Certification**

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If applicable, the applicant shall provide Ohio EPA with a written certification (see enclosed form if applicable) 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.

**9. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)**

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 quarterly (i.e., postmarked), by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

**C. 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>
OC	96.76
PE	59.88
CO	21.28
SO2	4.20

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**Part II - FACILITY SPECIFIC TERMS AND CONDITIONS**

**A. State and Federally Enforceable Permit To Install Facility Specific Terms and Conditions**

None

**B. State Only Enforceable Permit To Install Facility Specific Terms and Conditions**

None

Emissions Unit ID: P101

**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)****A. State and Federally Enforceable Section****I. 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 -(P101) - asphalt shingle process line no. 1 (modification to allow the production of metric shingles - modification of PTI 03-10084, issued March 5, 1997, for the horizontal and vertical mixers formerly identified as emissions unit P013, and modification of PTI #03-8992, issued August 24, 1997, for the line #1 backing use bin formerly identified as P010)**

<b>Applicable Rules/Requirements</b>	<b>Applicable Emissions Limitations/Control Measures</b>
OAC rule 3745-31-05(A)(3)	See A.I.2.a, A.I.2.b, A.I.2.e, A.I.2.f, and A.I.2.g
OAC rule 3745-21-07(G)	See A.II.1
OAC rule 3745-21-08(B)	See A.I.2.c
OAC rule 3745-17-11(B)	See A.I.2.d
OAC rule 3745-17-07(A)	See A.I.2.e
OAC rule 3745-18-06(E)	196.02 lbs SO <sub>2</sub> /hr; See A.I.2.h
40 CFR Part 60, Subpart UU	See A.I.2.e, A.I.2.f, and A.I.2.g
ORC 3704.03(T)(4)	See A.I.2.i

**2. Additional Terms and Conditions**

- 2.a Best Available Technology (BAT) control requirements for this emissions unit has been determined to be compliance with 40 CFR Part 60, Subpart UU, compliance with the terms and conditions of this permit, and use of the following particulate control equipment:
  - i. two CVM coalescing filters/mist eliminators (CD01 and CD02) resulting in emissions discharged which do not exceed 0.053 lbs PM<sub>10</sub>/ton of asphalt used, for the following equipment:

Emissions Unit ID: P101

CertainTeed ID for Source Equipment	Source Equipment
EQ102	Line #1 coater
EQ105A	Line #1 surfacing - blender section
EQ111	Line #1 overlay applicator
EQ112	Line #1 sealant applicator
EQ158	Overlay concentrate mixer
EQ159	Overlay mixer
T100-I	Plasticizer pre-heat tank
T106	Overlay asphalt storage tank
T107	Line #1 sealant day tank
T108	Line #1 sealant use tank

- ii. a Flat-Bed HEAF (CD03) resulting in emissions discharged which do not exceed 0.003 lbs PM10/ton of asphalt used, for the following equipment:

CertainTeed ID for Source Equipment	Source Equipment
EQ103	Line #1 horizontal mixer
EQ104	Line #1 vertical mixer

- iii. a baghouse (CD04) achieving a maximum outlet concentration of 0.03 grain/dscf for the following equipment:

CertainTeed ID for Source Equipment	Source Equipment
EQ105B	Line #1 surfacing - backing application
EQ108	Line #1 granule use bins

**2.b** Emissions limitations for this emissions unit are summarized as follows:

CertainTeed ID for Emission Point	OC lbs/hr	OC TPY	PM10* lbs/hr	PM10* TPY	CO lbs/hr	CO TPY
EP01/EP02	3.85	16.86	0.87	3.81	2.64	11.56
EP03	0.26	1.14	0.05	0.22	0.26	1.14
EP04	0.99	4.34	0.03 gr/dscf	6.13	1.88	8.23
EP05/EP06/EP07	1.91	8.37	5.58	24.44	0.08	0.35
EP34	0.44	1.93	1.47	6.44	N/A	N/A

\*All emissions of particulate matter is PM10.

- 2.c** The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this permit to install.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However,

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that rule revision has not yet been submitted to the U.S.EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S.EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

- 2.d** The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).
- 2.e** Visible particulate emissions from the stacks serving this emissions unit shall not exceed the following opacity requirements:

CertainTeed ID for Emission Point	Opacity Requirement	Regulatory Basis for Opacity Requirement
EP01	20% opacity when the coater is operating, otherwise 0% opacity	40 CFR Part 60.472(a) and (c)
EP02	20% opacity when the coater is operating, otherwise 0% opacity	40 CFR Part 60.472(a) and (c)
EP03	0% opacity	OAC rule 3745-31-05(A)(3)
EP04	0% opacity	OAC rule 3745-31-05(A)(3)
EP05/EP06/EP07	20% opacity as a six-minute average, except as provided by rule	OAC rule 3745-17-07(A)
EP34	20% opacity as a six-minute average, except as provided by rule	OAC rule 3745-17-07(A)

- 2.f** New Source Performance Standards (NSPS), according to 40 CFR Part 60, Subpart UU, are applicable to the following equipment found within this emissions unit:

CertainTeed ID for Source Equipment	Source Equipment
EQ102	Line #1 coater
T106	Overlay asphalt storage tank
T107	Line #1 sealant day tank
T108	Line #1 sealant use tank

- 2.g** The emissions limitation specified by this applicable rule for the Line #1 coater

Emissions Unit ID: P101

(0.08 lbs PM/ton asphalt) is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).

- 2.h The potential to emit for emissions of SO<sub>2</sub> from this emissions unit (See A.I.2.i) is less than the emission limitation pursuant to this rule.
- 2.i The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the sulfur dioxide (SO<sub>2</sub>) emissions from this air contaminant source since the uncontrolled potential to emit for SO<sub>2</sub> emissions is less than ten tons per year.

The potential to emit (PTE) for this emissions unit is 0.96 lbs SO<sub>2</sub>/hr, and 4.20 tons of SO<sub>2</sub> per year. The hourly PTE was determined by multiplying the maximum hourly process capacity of 16.47 tons of asphalt/hour, by emissions factors of 0.034, 0.023, and 0.116 lb of SO<sub>2</sub>/ton of asphalt processed for EP01, EP04, and EP05/EP06/EP07, respectively. The annual PTE was determined by multiplying the hourly PTE by a maximum operating schedule of 8760 hours per year, and dividing by 2000 lbs/ton.

## II. Operational Restrictions

- 1. The use of photochemically reactive materials, as defined in OAC rule 3745-21-01, in this emissions unit is prohibited.

## III. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall properly install, operate and maintain equipment to continuously monitor the pressure drop in inches of water across the following particulate control devices, during the operation of this emissions unit:
  - a. CVM coalescing filters (CD01 and CD02);
  - b. the Flat-Bed HEAF (CD03); and
  - c. a baghouse (CD04).

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 in inches of water on a once per shift basis, for CD01, CD02, CD03, and CD04.

Whenever the monitored value for the pressure drop deviates from the range specified below, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation: the date and time the deviation began and the magnitude of the deviation at that time, the date(s) the investigation was conducted, the names of the personnel who conducted the investigation, and the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the

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permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range specified below, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken: a description of the corrective action, the date it was completed, the date and time the deviation ended, the total period of time (in minutes) during which there was a deviation, the static pressure drop immediately after the corrective action, and the names of the personnel who performed the work. Investigation and records required by this paragraph does not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

The static pressure drop across the control devices shall be continuously maintained as follows, at all times while the emissions units is in operation:

- |    |           |                             |
|----|-----------|-----------------------------|
| a. | CD01/CD02 | 2.0 - 8.0 inches of water   |
| b. | CD03      | 20.0 - 35.0 inches of water |
| c. | CD04      | 0.5 - 7.0 inches of water   |

These ranges are effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to these ranges based upon information obtained during future particulate emission tests that demonstrate compliance with the allowable particulate emission rate for this emissions unit. In addition, approved revisions to these ranges will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of an administrative permit modification.

2. The permittee shall properly install, operate and maintain equipment to continuously monitor the inlet temperature to the filter elements, in degrees Fahrenheit, for the CVM coalescing filters (CD01 and CD02), during the operation of this emissions unit. 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 inlet temperature to the filter elements, in degrees Fahrenheit, on a once per shift basis, for CD01 and CD02.

Whenever the monitored value for the inlet temperature to the filter elements exceeds the maximum temperature value specified below, the permittee shall promptly investigate the cause of the exceedance. The permittee shall maintain records of the following information for each investigation: the date and time the exceedance began and the magnitude of the exceedance at that time, the date(s) the investigation was

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conducted, the names of the personnel who conducted the investigation, and the findings and recommendations.

In response to each required investigation to determine the cause of an exceedance, the permittee shall take prompt corrective action to bring the operation of the control equipment below the maximum temperature value specified below, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the exceedance ended. The permittee shall maintain records of the following information for each corrective action taken: a description of the corrective action, the date it was completed, the date and time the exceedance ended, the total period of time (in minutes) during which there was an exceedance, the temperature reading immediately after the corrective action, and the names of the personnel who performed the work. Investigation and records required by this paragraph does not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

The inlet temperature to the filter elements shall be continuously maintained at or below the maximum temperature of 125 degrees Fahrenheit, at all times while the emissions unit is in operation.

This maximum temperature is effective for the duration of this permit, unless a revision is requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request a revision to this maximum temperature based upon information obtained during future organic carbon emission tests that demonstrate compliance with the allowable organic carbon emission rate for this emissions unit. In addition, an approved revision to this maximum temperature value will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of an administrative permit modification.

3. The permittee shall maintain documentation of whether or not each asphalt coating material employed is a photochemically reactive material.

#### **IV. Reporting Requirements**

1. The permittee shall submit quarterly reports that identify the following information concerning the operation of the control equipment during the operation of this emissions unit:
  - a. each period of time when the pressure drop across the CVM coalescing filters (CD01 and CD02), the pressure drop across the Flat-Bed HEAF (CD03), or the pressure drop across the baghouse (CD04), was outside of the acceptable range;
  - b. an identification of each incident of deviation described in (a) where a prompt investigation was not conducted;

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- c. an identification of each incident of deviation described in (a) where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and
- d. an identification of each incident of deviation described in (a) where proper records were not maintained for the investigation and/or the corrective action.

The permittee shall submit these deviation (excursion) reports in accordance with the General Terms and Conditions of this permit.

- 2. The permittee shall submit quarterly reports that identify the following information concerning the operation of the control equipment during the operation of this emissions unit:
  - a. each period of time when the inlet temperature to the CVM coalescing filters (CD01 and CD02), was above the acceptable maximum;
  - b. an identification of each incident of deviation described in (a) where a prompt investigation was not conducted;
  - c. an identification of each incident of deviation described in (a) where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and
  - d. an identification of each incident of deviation described in (a) where proper records were not maintained for the investigation and/or the corrective action.

The permittee shall submit these deviation (excursion) reports in accordance with the General Terms and Conditions of this permit.

- 3. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any record showing the use of photochemically reactive asphalt coating materials. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days following the end of the calendar month.

## V. Testing Requirements

- 1. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
  - a. The emissions testing shall be conducted within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after modification of each emissions unit. The above testing requirement was fulfilled for A.V.1.b. i. - v. below, by testing conducted on

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August 30 - September 2 and September 29 - 30, 2005. Testing will need to be performed for A.V.1.b.vi. and vii.

- b. The emission testing shall be conducted to demonstrate compliance with the following limits:
  - i. the mass emission limitations of 3.85 lbs OC/hr for EP01/EP02, 0.26 lbs OC/hr for EP03, 0.99 lbs OC/hr for EP04, 1.91 lbs OC/hr for EP05/EP06/EP07, and 0.44 lbs OC/hr for EP34;
  - ii. the mass emission limitations of 0.87 lbs PM10/hour for EP01/EP02, 0.05 lbs PM10/hour for EP03, 5.58 lbs PM10/hour for EP05/EP06/EP07, and 1.47 lbs PM10/hour for EP34;
  - iii. the 0.053 lbs PM10/ton of asphalt used for the coalescing filters/mist eliminators (CD01 and CD02);
  - iv. the 0.003 lbs PM10/ton of asphalt used for the Flat-Bed HEAF (CD03);
  - v. the grain loading of 0.03 grains/dscf for PM10 for the line #1 main baghouse (CD04);
  - vi. 0.08 lbs PM/ton of asphalt shingle produced, for the line #1 coater; and
  - vii. 20% opacity when the coater is operating, otherwise 0% opacity, for the coalescing filters/mist eliminators (CD01 and CD02).
  
- c. The following test method(s) shall be employed to demonstrate compliance with the above emission limitations and verify emission factors:
  - i. Methods 1 - 4 of 40 CFR Part 60, Appendix A;
  - ii. for PM10 - Method 201 and 201a of 40 CFR Part 51, Appendix M;
  - iii. for OC - Method 18, 25, or 25A of CFR Part 60, Appendix A;
  - iv. for compliance with the NSPS emissions limitation of 0.08 lbs PM/ton of asphalt shingle produced for the line #1 coater, testing shall be done in accordance with 60.474 and 60.8 of 40 CFR Part 60; and
  - v. for compliance with the NSPS emissions limitation of 20% opacity when

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the coater is operating, otherwise 0% opacity, for the coalescing filters/mist eliminators (CD01 and CD02), testing shall be done in accordance with Method 9 of 40 CFR Part 60, Appendix A.

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

- d. The tests shall be conducted while this emissions unit is operating at its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Division of Air Pollution Control. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Division of Air Pollution Control. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the times and dates of the tests, and the person(s) who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA District Office's air agency's refusal to accept the results of the emissions tests.
  - e. Personnel from the Ohio EPA District Office's air agency shall be permitted to witness the test, 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 unit and/or the performance of the control equipment. A comprehensive written report on the emissions tests shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Division of Air Pollution Control within 30 days following completion of the tests.
2. Compliance Methods Requirements: Compliance with the emission limitation(s) in section A.I.1 of the terms and conditions of this permit shall be determined in accordance with the following method(s):

- a. Emission Limitations:

CertainTeed ID Emission Point	OC lbs/hr	OC TPY	PM10* lbs/hr	PM10* TPY
EP01/EP02	3.85	16.86	0.87	3.81
EP03	0.26	1.14	0.05	0.22
EP04	0.99	4.34	0.03 gr/dscf	6.13
EP05/EP06/EP07	1.91	8.37	5.58	24.44
EP34	0.44	1.93	1.47	6.44

\*All emissions of particulate matter is PM10.

Applicable Compliance Methods:

Compliance with the lbs/hr emissions limitations, and the 0.03 gr/dscf limit, has been demonstrated by emissions testing in accordance with the requirements in

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A.V.1 above.

The ton/year limitations were established by multiplying the pounds per hour limitation by 8760 hours per year, and applying a conversion factor of 1 ton/2000 lbs. Therefore, provided compliance is shown with the hourly emissions limitation, compliance with the tons/year limitation will be assumed.

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## b. Emission Limitation:

CertainTeed ID Emission Point	CO lbs/hr	CO TPY
EP01/EP02	2.64	11.56
EP03	0.26	1.14
EP04	1.88	8.23
EP05/EP06/EP07	0.08	0.35
EP34	N/A	N/A

## Applicable Compliance Methods:

The permittee may demonstrate compliance with the lb/hr limitation for CO by multiplying a maximum asphalt coating usage rate of 16.47 tons/hr by the company supplied emission factors in units of lbs/ton asphalt used, specific to individual components of the line. Emissions factors are as follows:

Emissions point	CO emissions factor (lbs/ton asphalt used)
EP01/EP02	0.16
EP03	0.016
EP04	0.114
EP05/EP06/EP07	0.005
EP34	NA - negligible

If required, compliance shall demonstrated by testing for CO using Method 10 of CFR Part 60, Appendix A.

The tons/year limitation was established by multiplying the pounds per hour limitation by 8760 hours per year, and applying a conversion factor of 1 ton/2000 lbs. Therefore, provided compliance is shown with the hourly emissions limitation, compliance with the tons/year limitation will be assumed.

## c. Emission Limitation:

CertainTeed ID for Emission Point	Opacity Requirement
EP01	20% opacity when the coater is operating, otherwise 0% opacity
EP02	20% opacity when the coater is operating, otherwise 0% opacity

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Applicable Compliance Method:

Compliance with the limits established by 40 CFR Part 60.472(a) and (c) shall be demonstrated in accordance with Method 9 of 40 CFR Part 60, Appendix A.

d. Emission Limitation:

CertainTeed ID for Emission Point	Opacity Requirement
EP03	0% opacity
EP04	0% opacity

Applicable Compliance Method:

If required, compliance with the limits shall be demonstrated in accordance with Method 9 of 40 CFR Part 60, Appendix A.

e. Emission Limitation:

CertainTeed ID for Emission Point	Opacity Requirement
EP05/EP06/EP07	20% opacity as a six-minute average, except as provided by rule
EP34	20% opacity as a six-minute average, except as provided by rule

Applicable Compliance Method:

If required, compliance with the limits established by OAC rule 3745-31-05(A)(3) and OAC rule 3745-17-07(A) shall be demonstrated in accordance with OAC rule 3745-17-03(B).

## VI. Miscellaneous Requirements

None

### B. State Only Enforceable Section

#### I. Applicable Emissions Limitations and/or Control Requirements

- 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

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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 - (P101) - asphalt shingle process line no. 1 (modification to allow the production of metric shingles - modification of PTI 03-10084, issued March 5, 1997, for the horizontal and vertical mixers formerly identified as emissions unit P013)**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
None	None

**2. Additional Terms and Conditions**

2.a None

**II. Operational Restrictions**

None

**III. Monitoring and/or Recordkeeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

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**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)****A. State and Federally Enforceable Section****I. 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 - (P104) - line no. 1 hot filler system (modification to allow the production of metric shingles - modification of PTI #03-1564, issued 03-21-1984 for the line #1 hot filler heater, formerly identified as emissions unit P007, and PTI #03-10298, issued 05-07-1997 for the line #1 hot filler surge bin formerly identified as emissions unit P020)**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(C)	See A.I.2.a and A.I.2.b
OAC rule 3745-17-11(B)	23.26 lbs PM10/hr; See A.I.2.c
OAC rule 3745-17-07(A)	See A.I.2.d
OAC rule 3745-21-07(G)	See A.II.1
40 CFR Part 60, Subpart UU	See A.I.2.d
ORC 3704.03(T)(4)	See A.I.2.e

**2. Additional Terms and Conditions**

- 2.a Permit to Install 03-17284 for this air contaminant source takes into account the following voluntary restrictions (including the use of any applicable air pollution control equipment) as proposed by the permittee for the purpose of avoiding Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3), for particulate emissions (PE):

- i. four baghouses (CD10, CD11, CD12, and CD18) with grain loadings as follows, for the following equipment:

CertainTeed ID	Source Equipment	Control Device	Grain Loading
EQ131	No. 1 filler silo w/ pneumatic truck loading	CD10	0.015 gr/dscf

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EQ132	No. 3 filler silo w/ pneumatic truck loading	CD11	0.015 gr/dscf
EQ133	No. 4 filler silo w/ pneumatic truck loading	CD11	0.015 gr/dscf
EQ134	Line #1 filler heater w/ hot oil heating	CD18	0.05 gr/dscf
EQ135	Line #1 hot filler surge bin	CD12	0.08 gr/dscf

- 2.b The potential to emit (PTE) for this emissions unit is 1.7 lbs PM10/hr, and 7.45 tons of PM10 per year. The hourly PTE was determined by multiplying the maximum outlet concentrations in A.I.2.a above, by the maximum volumetric air flows of 2475, 800, 965, and 1275 acfm, for EP13, EP14, EP15, and EP21, respectively, and then applying the appropriate conversion factors of 7000 grains/lb, 1 dscf/acfm, and 60 minutes/hr. The annual PTE was determined by multiplying the hourly PTE by a maximum operating schedule of 8760 hours per year, and dividing by 2000 lbs/ton.
- 2.c The potential to emit for emissions of PM10 from this emissions unit (See A.I.2.b) is less than the emission limitation pursuant to this rule.
- 2.d Visible particulate emissions from the stacks serving this emissions unit shall not exceed the following opacity requirements:

CertainTeed ID for Emissions Point	Opacity Requirement	Regulatory Basis for Opacity Requirement
EP13	1% opacity	40 CFR Part 60.472(d)
EP14	1% opacity	40 CFR Part 60.472(d)
EP15	20% opacity as a six-minute average, except as provided by rule	OAC rule 3745-17-07(A)
EP21	20% opacity as a six-minute average, except as provided by rule	OAC rule 3745-17-07(A)

- 2.e New Source Performance Standards (NSPS), according to 40 CFR Part 60, Subpart UU, are applicable to the following equipment found within this emissions unit:

CertainTeed ID for Source Equipment	Source Equipment
EQ131	No. 1 filler silo w/ pneumatic truck loading
EQ132	No. 3 filler silo w/ pneumatic truck loading
EQ133	No. 4 filler silo w/ pneumatic truck loading

- 2.f The BAT requirements under OAC rule 3745-31-05(A)(3) do not apply to the OC emissions from this air contaminant source since the uncontrolled potential to

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emit for OC is less than ten tons per year.

## II. Operational Restrictions

1. The use of photochemically reactive materials, as defined in OAC rule 3745-21-01, in this emissions unit is prohibited.

## III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall properly install, operate and maintain equipment to continuously monitor the pressure drop in inches of water across the following baghouses, during the operation of this emissions unit: CD10, CD11, CD12, and CD18. 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 in inches of water on a once per shift basis, for CD10, CD11, CD12, and CD18.

Whenever the monitored value for the pressure drop deviates from the range specified below, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation: the date and time the deviation began and the magnitude of the deviation at that time, the date(s) the investigation was conducted, the names of the personnel who conducted the investigation, and the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range specified below, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken: a description of the corrective action, the date it was completed, the date and time the deviation ended, the total period of time (in minutes) during which there was a deviation, the static pressure drop immediately after the corrective action, and the names of the personnel who performed the work. Investigation and records required by this paragraph does not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

The acceptable range for the pressure drop across each baghouse is 0.5 to 7.0 inches of water, at all times while these emissions units are in operation.

These ranges are effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to these ranges based upon information obtained during future particulate emission tests that demonstrate compliance with the allowable particulate emission rate for this emissions unit. In addition, approved revisions to these ranges will not constitute a relaxation of

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the monitoring requirements of this permit and may be incorporated into this permit by means of an administrative permit modification.

2. The permittee shall maintain documentation of whether or not each asphalt coating material employed is a photochemically reactive material.

#### IV. Reporting Requirements

1. The permittee shall submit quarterly reports that identify the following information concerning the operation of the control equipment during the operation of this emissions unit:
  - a. each period of time when the pressure drop across any of the baghouses (CD10, CD11, CD12, or CD18), was outside of the acceptable range;
  - b. an identification of each incident of deviation described in (a) where a prompt investigation was not conducted;
  - c. an identification of each incident of deviation described in (a) where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and
  - d. an identification of each incident of deviation described in (a) where proper records were not maintained for the investigation and/or the corrective action.

The permittee shall submit these deviation (excursion) reports in accordance with the General Terms and Conditions of this permit.

2. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any record showing the use of photochemically reactive asphalt coating materials. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days following the end of the calendar month.

#### V. Testing Requirements

1. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
  - a. The emissions testing shall be conducted within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after initial startup of such emissions unit. However, this testing requirement was fulfilled for A.V.1.b. ii. and iii. below, by emissions testing conducted on August 30 - September 2 and September 29 - 30, 2005. Testing will need to be performed for A.V.1.b.iv. Testing for A.V.1.b.i. shall be conducted if required.

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- b. The emission testing shall be conducted to demonstrate compliance with the following limits:
  - i. the grain loading of 0.015 lbs grains/dscf for the baghouses controlling the storage silos (CD10 and CD11);
  - ii. the grain loading of 0.05 lbs grains/dscf for the baghouse controlling the line #1 hot filler surge bin (CD12);
  - iii. the grain loading of 0.08 lbs grains/dscf for the baghouse controlling the line #1 hot filler heater (CD18); and
  - iv. 1% opacity for emissions points EP15 and EP21.
- c. The following test method(s) shall be employed to demonstrate compliance with the above emission limitations and verify emission factors:
  - i. Methods 1 - 4 of 40 CFR Part 60, Appendix A;
  - ii. for PM10 - Method 201 and 201a of 40 CFR Part 51, Appendix M; and
  - iii. for compliance with the NSPS emissions limitation of 1% opacity for emissions points EP15 and EP21, testing shall be done in accordance with Method 9 of 40 CFR Part 60, Appendix A.

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

- d. The tests shall be conducted while this emissions unit is operating at its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Division of Air Pollution Control. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Division of Air Pollution Control. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the times and dates of the tests, and the person(s) who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA District Office's air agency's refusal to accept the results of the emissions tests.
- e. Personnel from the Ohio EPA District Office's air agency shall be permitted to

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witness the test, 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 unit and/or the performance of the control equipment. A comprehensive written report on the emissions tests shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Division of Air Pollution Control within 30 days following completion of the tests.

2. Compliance Methods Requirements: Compliance with the emission limitation(s) in section A.I.1 of the terms and conditions of this permit shall be determined in accordance with the following method(s):

a. Emission Limitations:  
grain loading of 0.015 lbs grains/dscf for the baghouses controlling the storage silos (CD10 and CD11)

Applicable Compliance Method:  
If required, compliance shall demonstrated in accordance with A.V.1 above.

b. Emission Limitations:  
grain loading of 0.05 lbs grains/dscf for the baghouse controlling the line #1 hot filler surge bin (CD12)

Applicable Compliance Method:  
Compliance with the grain loading limitation has been demonstrated by emissions testing conducted in accordance with A.V.1 above, on August 30 - September 2 and September 29 - 30, 2005.

c. Emission Limitations:  
grain loading of 0.08 lbs grains/dscf for the baghouse controlling the line #1 hot filler heater (CD18)

Applicable Compliance Method:  
Compliance with the grain loading limitation has been demonstrated by emissions testing conducted in accordance with A.V.1 above, on August 30 - September 2 and September 29 - 30, 2005.

d. Emission Limitations:

<b>CertainTeed ID for Emissions Point</b>	<b>Opacity Requirement</b>	<b>Regulatory Basis for Opacity Requirement</b>
EP13	1% opacity	40 CFR Part 60.472(d)
EP14	1% opacity	40 CFR Part 60.472(d)

Applicable Compliance Method:

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Compliance with the limits established by 40 CFR Part 60.472(d) shall be demonstrated in accordance with Method 9 of 40 CFR Part 60, Appendix A.

## e. Emission Limitation:

<b>CertainTeed ID for Emission Point</b>	<b>Opacity Requirement</b>
EP15	20% opacity as a six-minute average, except as provided by rule
EP21	20% opacity as a six-minute average, except as provided by rule

Applicable Compliance Method:

If required, compliance with the limits established by OAC rule 3745-31-05(A)(3) and OAC rule 3745-17-07(A) shall be demonstrated in accordance with OAC rule 3745-17-03(B).

**VI. Miscellaneous Requirements**

None

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**B. State Only Enforceable Section**

**I. 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 - (P104) - line no. 1 hot filler system (modification to allow the production of metric shingles - modification of PTI #03-1564, issued 03-21-1984 for the line #1 hot filler heater, formerly identified as emissions unit P007, and PTI #03-10298, issued 05-07-1997 for the line #1 hot filler surge bin formerly identified as emissions unit P020)**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
None	None

2. **Additional Terms and Conditions**

- 2.a None

**II. Operational Restrictions**

None

**III. Monitoring and/or Recordkeeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

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None

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**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. State and Federally Enforceable Section**

**I. 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 -(T101) - 50,000 gallon coating asphalt storage tank #1 (modification to allow the production of metric shingles)**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	12.17 lbs OC/hr, 53.30 tons OC/yr  2.60 lbs PM10/hr, 11.39 tons PM10/yr  See A.I.2.a
OAC rule 3745-21-07(G)	See A.II.1
OAC rule 3745-17-11(B)	See A.I.2.c
OAC rule 3745-17-07(A)	See A.I.2.d
40 CFR Part 60, Subpart UU	See A.I.2.e

**2. Additional Terms and Conditions**

- 2.a The requirements of this rule include compliance with 40 CFR Part 60, Subpart UU.
- 2.b The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II in OAC rule 3745-17-11 does not apply. Also, Table I does not apply since the facility is located in Erie County.
- 2.c This emissions unit is exempt from the visible particulate emissions limitation specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because OAC rule 3745-17-11 is no applicable.

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- 2.d** New Source Performance Standards (NSPS), according to 40 CFR Part 60, Subpart UU, are applicable to this emissions unit. The opacity requirement for asphalt storage tanks is 0% opacity, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for clearing.

## II. Operational Restrictions

1. The use of photochemically reactive materials, as defined in OAC rule 3745-21-01, in this emissions unit is prohibited.

## III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain documentation of whether or not each asphalt coating material employed is a photochemically reactive material.

## IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any record showing the use of photochemically reactive asphalt coating materials. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days following the end of the calendar month.

## V. Testing Requirements

1. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
  - a. The emissions testing shall be conducted within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after modification of each emissions unit.
  - b. The emission testing shall be conducted to demonstrate compliance with the following limits:
    - i. 0% opacity, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for clearing.
  - c. The following test method(s) shall be employed to demonstrate compliance with the above emission limitations and verify emission factors:
    - i. for compliance with the NSPS emissions limitation of 20% opacity when the coater is operating, otherwise 0% opacity, for the coalescing filters/mist eliminators (CD01 and CD02), testing shall be done in accordance with Method 9 of 40 CFR Part 60, Appendix A.

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

- d. The tests shall be conducted while this emissions unit is operating at its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Division of Air Pollution Control. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Division of Air Pollution Control. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the times and dates of the tests, and the person(s) who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA District Office's air agency's refusal to accept the results of the emissions tests.
  - e. Personnel from the Ohio EPA District Office's air agency shall be permitted to witness the test, 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 unit and/or the performance of the control equipment. A comprehensive written report on the emissions tests shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Division of Air Pollution Control within 30 days following completion of the tests.
2. Compliance Methods Requirements: Compliance with the emission limitation(s) in section A.I.1 of the terms and conditions of this permit shall be determined in accordance with the following method(s):
- a. Emission Limitations:  
12.17 lbs OC/hr, 53.30 tons OC/yr

Applicable Compliance Methods:

The hourly emission limitation represents the potential to emit\* for this emissions unit. Therefore, no hourly recordkeeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with this limitation.

\*Potential to emit for this emissions unit was established by the Tanks emissions calculation program, based on an asphalt throughput rate of 16.47 tons/hour.

Compliance with the annual emissions limitation shall be determined by multiplying the hourly emission limitation by 8760 hours/year and dividing by

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2000 lbs/ton.

- b. Emission Limitations:  
2.60 lbs PM10/hr, 11.39 tons PM10/yr

Applicable Compliance Methods:

The hourly emission limitation represents the potential to emit\* for this emissions unit. Therefore, no hourly recordkeeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with this limitation.

\*Potential to emit for this emissions unit was established by the Tanks emissions calculation program, based on an asphalt throughput rate of 16.47 tons/hour.

Compliance with the annual emissions limitation shall be determined by multiplying the hourly emission limitation by 8760 hours/year and dividing by 2000 lbs/ton.

- c. Emission Limitations:  
0% opacity, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for clearing

Applicable Compliance Methods:

Compliance with the limits established by 40 CFR Part 60.472(a) and (c) shall be demonstrated in accordance with Method 9 of 40 CFR Part 60, Appendix A.

## VI. Miscellaneous Requirements

None

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**B. State Only Enforceable Section**

**I. 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 - (T101) - 50,000 gallon coating asphalt storage tank #1 (modification to allow the production of metric shingles)**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
None	None

2. **Additional Terms and Conditions**

- 2.a None

**II. Operational Restrictions**

None

**III. Monitoring and/or Recordkeeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

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**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. State and Federally Enforceable Section**

**I. 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 -(T104) - 50,000 gallon AC-20 asphalt storage tank #4 (modification to allow the production of metric shingles)**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
ORC 3704.03(T)(4)	See A.I.2.a
OAC rule 3745-21-07(G)	See A.II.1
40 CFR Part 60, Subpart UU	See A.I.2.b

**2. Additional Terms and Conditions**

- 2.a The BAT requirements under OAC rule 3745-31-05(A)(3) do not apply to the OC emissions from this air contaminant source since the uncontrolled potential to emit for OC is less than ten tons per year.
- 2.b New Source Performance Standards (NSPS), according to 40 CFR Part 60, Subpart UU, are applicable to this emissions unit. The opacity requirement for asphalt storage tanks is 0% opacity, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for clearing.

**II. Operational Restrictions**

1. The use of photochemically reactive materials, as defined in OAC rule 3745-21-01, in this emissions unit is prohibited.

**III. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall maintain documentation of whether or not each asphalt coating

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material employed is a photochemically reactive material.

#### IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any record showing the use of photochemically reactive asphalt coating materials. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days following the end of the calendar month.

#### V. Testing Requirements

1. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
  - a. The emissions testing shall be conducted within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after modification of each emissions unit.
  - b. The emission testing shall be conducted to demonstrate compliance with the following limit:
    - i. 0% opacity, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for clearing.
  - c. The following test method(s) shall be employed to demonstrate compliance with the above emission limitations and verify emission factors:
    - i. for compliance with the NSPS emissions limitation of 20% opacity when the coater is operating, otherwise 0% opacity, for the coalescing filters/mist eliminators (CD01 and CD02), testing shall be done in accordance with Method 9 of 40 CFR Part 60, Appendix A.
  - d. The tests shall be conducted while this emissions unit is operating at its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Division of Air Pollution Control. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Division of Air Pollution Control. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the times and dates of the tests, and the person(s) who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA District Office's air agency's refusal to accept the results of the emissions tests.
  - e. Personnel from the Ohio EPA District Office's air agency shall be permitted to witness the test, examine the testing equipment, and acquire data and

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information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions unit and/or the performance of the control equipment. A comprehensive written report on the emissions tests shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Division of Air Pollution Control within 30 days following completion of the tests.

2. Compliance Methods Requirements: Compliance with the emission limitation(s) in section A.I.1 of the terms and conditions of this permit shall be determined in accordance with the following method(s):

- a. Emission Limitation:

0% opacity, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for clearing

Applicable Compliance Methods:

Compliance with the limits established by 40 CFR Part 60.472(a) and (c) shall be demonstrated in accordance with Method 9 of 40 CFR Part 60, Appendix A.

## **VI. Miscellaneous Requirements**

None

**CertainTeed Corporation-Avery Facility**  
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**Facility ID: 0322000017**

Emissions Unit ID: T104

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**B. State Only Enforceable Section**

**I. 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 -(T104) - 50,000 gallon AC-20 asphalt storage tank #4 (modification to allow the production of metric shingles)**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
None	None

2. **Additional Terms and Conditions**

- 2.a None

**II. Operational Restrictions**

None

**III. Monitoring and/or Recordkeeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None