



Environmental Protection Agency

John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

11/29/2011

Certified Mail

Robert Morton
CertainTeed Corp.
11519 State Route 250N
Milan, OH 44846

No	TOXIC REVIEW
No	PSD
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
No	MACT/GACT
No	NSPS
No	NESHAPS
No	NETTING
No	MAJOR NON-ATTAINMENT
No	MODELING SUBMITTED
No	MAJOR GHG
No	SYNTHETIC MINOR TO AVOID MAJOR GHG

RE: FINAL AIR POLLUTION PERMIT-TO-INSTALL
Facility ID: 0322000017
Permit Number: P0109102
Permit Type: Administrative Modification
County: Erie

Dear Permit Holder:

Enclosed please find a final Air Pollution Permit-to-Install (PTI) which will allow you to install or modify the described emissions unit(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, we urge you to read it carefully. Please complete a survey at www.epa.ohio.gov/dapc/permitsurvey.aspx and give us feedback on your permitting experience. We value your opinion.

The issuance of this PTI is a final action of the Director 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, made payable to "Ohio Treasurer Josh Mandel," 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

The Ohio EPA is encouraging 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 Compliance Assistance and Pollution Prevention at (614) 644-3469. If you have any questions regarding this permit, please contact the Ohio EPA DAPC, Northwest District Office. This permit can be accessed electronically on the Division of Air Pollution Control (DAPC) Web page, www.epa.ohio.gov/dapc by clicking the "Issued Air Pollution Control Permits" link.

Sincerely,

Michael W. Ahern, Manager
Permit Issuance and Data Management Section, DAPC

Cc: U.S. EPA
Ohio EPA-NWDO; Michigan; Canada



FINAL

**Division of Air Pollution Control
Permit-to-Install
for
CertainTeed Corp.**

Facility ID: 0322000017
Permit Number: P0109102
Permit Type: Administrative Modification
Issued: 11/29/2011
Effective: 11/29/2011



Division of Air Pollution Control
Permit-to-Install
for
CertainTeed Corp.

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Authorization

Facility ID: 0322000017
Facility Description: Asphalt Felts and Coatings
Application Number(s): M0001466
Permit Number: P0109102
Permit Description: Administration Modification to change emission factors for P102. Specifically to change the emission factors for the Overlay asphalt, plasticizer and coating asphalt.
Permit Type: Administrative Modification
Permit Fee: \$500.00
Issue Date: 11/29/2011
Effective Date: 11/29/2011

This document constitutes issuance to:

CertainTeed Corp.
11519 State Route 250N
Milan, OH 44846

of a Permit-to-Install for the emissions unit(s) identified on the following page.

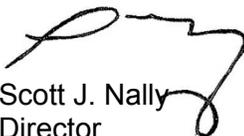
Ohio EPA District Office or local air agency responsible for processing and administering your permit:

Ohio EPA DAPC, Northwest District Office
347 North Dunbridge Road
Bowling Green, OH 43402
(419)352-8461

The above named entity is hereby granted a Permit-to-Install for the emissions unit(s) listed in this section 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 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


Scott J. Nally
Director



Authorization (continued)

Permit Number: P0109102
Permit Description: Administration Modification to change emission factors for P102. Specifically to change the emission factors for the Overlay asphalt, plasticizer and coating asphalt.

Permits for the following Emissions Unit(s) or groups of Emissions Units are in this document as indicated below:

Emissions Unit ID:	P102
Company Equipment ID:	Line No. 2 Process Units
Superseded Permit Number:	03-17171
General Permit Category and Type:	Not Applicable

A. Standard Terms and Conditions

1. Federally Enforceable Standard Terms and Conditions

- a) All Standard Terms and Conditions are federally enforceable, with the exception of those listed below which are enforceable under State law only:
 - (1) Standard Term and Condition A.2.a), Severability Clause
 - (2) Standard Term and Condition A.3.c) through A. 3.e) General Requirements
 - (3) Standard Term and Condition A.6.c) and A. 6.d), Compliance Requirements
 - (4) Standard Term and Condition A.9., Reporting Requirements
 - (5) Standard Term and Condition A.10., Applicability
 - (6) Standard Term and Condition A.11.b) through A.11.e), Construction of New Source(s) and Authorization to Install
 - (7) Standard Term and Condition A.14., Public Disclosure
 - (8) Standard Term and Condition A.15., Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations
 - (9) Standard Term and Condition A.16., Fees
 - (10) Standard Term and Condition A.17., Permit Transfers

2. Severability Clause

- a) 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.
- b) All terms and conditions designated in parts B and C of this permit are federally enforceable as a practical matter, if they are required under the Act, or any of 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. Terms and conditions in parts B and C of this permit shall not be federally enforceable and shall be enforceable under State law only, only if specifically identified in this permit as such.

3. 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.

4. Monitoring and Related Record Keeping 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:
 - (1) The date, place (as defined in the permit), and time of sampling or measurements.
 - (2) The date(s) analyses were performed.
 - (3) The company or entity that performed the analyses.
 - (4) The analytical techniques or methods used.
 - (5) The results of such analyses.
 - (6) 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:
 - (1) Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the Ohio EPA DAPC, Northwest District Office.
 - (2) Quarterly written reports of (i) any deviations from federally enforceable emission limitations, and (ii) any deviations from operational restrictions.

andcontroldeviceoperatingparameterlimitations, 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 Ohio EPA DAPC, Northwest District Office. The written 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 A.15. below if no deviations occurred during the quarter.

- (3) Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, andreportingrequirements contained in this permit shall be submitted (i.e., postmarked) to the Ohio EPA DAPC, Northwest District Office 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.
 - (4) This permit is for an emissions unit located at a Title V facility. 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.

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, i.e., upset, of any emissions units or any associated air pollution control system(s) shall be reported to the Ohio EPA DAPC, Northwest District Office 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).

6. Compliance Requirements

- a) 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.
- b) 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.
- c) 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:

- (1) 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.
 - (2) 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.
 - (3) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
 - (4) 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.
- d) The permittee shall submit progress reports to the Ohio EPA DAPC, Northwest District Office 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:
- (1) Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
 - (2) 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.

7. Best Available Technology

As specified in OAC Rule 3745-31-05, new sources that must employ Best Available Technology (BAT) shall comply with the Applicable Emission Limitations/Control Measures identified as BAT for each subject emissions unit.

8. 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.

9. 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 Ohio EPA DAPC, Northwest District Office.
- 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 Ohio EPA DAPC, Northwest District Office. If no deviations occurred during a calendar quarter, the permitteeshall

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.)

10. 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).

11. Construction of New Sources(s) and Authorization to Install

- a) 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.
- b) If applicable, authorization to install any new 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 has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation. 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.
- c) The permittee may notify Ohio EPA of any emissions unit that is permanently shut down (i.e., the emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31) by submitting a certification from the authorized official that identifies the date on which the emissions unit was permanently shut down. Authorization to operate the affected emissions unit shall cease upon the date certified by the authorized official that the emissions unit was permanently shut down. At a minimum, notification of permanent shut down shall be made or confirmed by marking the affected emissions unit(s) as "permanently shut down" in Ohio EPA's "Air Services" along with the date the emissions unit(s) was permanently removed and/or disabled. Submitting the facility profile update will constitute notifying of the permanent shutdown of the affected emissions unit(s).
- d) The provisions of this permit shall cease to be enforceable for each affected emissions unit after the date on which an emissions unit is permanently shut down (i.e., emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31). All

records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, must be maintained in accordance with law. All reports required by this permit must be submitted for any period an affected emissions unit operated prior to permanent shut down. At a minimum, the permit requirements must be evaluated as part of the reporting requirements identified in this permit covering the last period the emissions unit operated.

No emissions unit certified by the authorized official as being permanently shut down may resume operation without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31.

- e) The permittee shall comply with any residual requirements related to this permit, such as the requirement to submit a deviation report, air fee emission report, or other any reporting required by this permit for the period the operating provisions of this permit were enforceable, or as required by regulation or law. All reports shall be submitted in a form and manner prescribed by the Director. All records relating to this permit must be maintained in accordance with law.

12. Permit-To-Operate Application

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).

13. Construction Compliance Certification

The applicant shall identify the following dates in the online facility profile for each new emissions unit identified in this permit.

- a) Completion of initial installation date shall be entered upon completion of construction and prior to start-up.
- b) Commence operation after installation or latest modification date shall be entered within 90 days after commencing operation of the applicable emissions unit.

14. 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.

15. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations

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.

16. 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.

17. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The new owner must update and submit the ownership information via the "Owner/Contact Change" functionality in Air Services once the transfer is legally completed. The change must be submitted through Air Services within thirty days of the ownership transfer date.

18. 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.

19. 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.

B. Facility-Wide Terms and Conditions

1. All the following facility-wide terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:
 - a) None.

C. Emissions Unit Terms and Conditions



1. P102, Line No. 2 Process Units

Operations, Property and/or Equipment Description:

line 2 process units including: coater, vertical / horizontal mixers, surfacing, cooling, sealant, nail line paint app., laminant, and finished product sections (mod. of PTIs 03-10084 and 03-16251)

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	Control measures – see b)(2)b.iv.(a) through b)(2)b.iv.(e) Short-term emission limitations – see b)(2)b.v. Visible emission restrictions – see b)(2)c. See b)(2)a.
b.	OAC rule 3745-31-05(D)	Federally enforceable emission limitations for P101, P102, T101, T102, T103, T104, and T105, combined: 142.17 tons organic compounds (OC)/rolling, 12-month period; 66.73 tons emissions of particulate matter 10 microns or less in size (PM10)/rolling, 12-month period; 37.49 tons carbon monoxide (CO)/rolling, 12-month period; and 5.20 tons sulfur dioxide (SO2)/rolling, 12-month period; See Section B.2



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
c.	OAC rule 3745-17-07(A)	see b)(2)c. and b)(2)f.
d.	OAC rule 3745-17-11(B)	See b)(2)g.
e.	OAC rule 3745-21-07(G)	See b)(2)i. and c)(1)
f.	OAC rule 3745-18-06(E)	See b)(2)h.
g.	40 CFR Part 60, Subpart UU	See b)(2)c. through b)(2)e.
h.	ORC 3704.03(F) OAC rule 3745-114-01	See d)(6)

(2) Additional Terms and Conditions

- a. Emissions unit P102 is a complex asphalt shingle manufacturing operation consisting of numerous pieces of equipment, several control devices, and multiple egress points (i.e. stacks). Twenty-four specific pieces of equipment from the line have been identified as operations that emit air contaminants. Twenty-two of the twenty-four pieces of equipment are directed to one of five separate control devices. The five control devices (identified by the designation CDxx) utilized by the manufacturing line are a “CVM coalescing filter/mist eliminator (CD01); a “Flat-Bed HEAF” (CD03); a “Mini-HEAF” (CD08) and two separate baghouses (CD06 and CD07). Controlled and uncontrolled emissions are emitted from the manufacturing line by way of eight egress points.

The following table is presented for purposes of identifying the specific manufacturing equipment involved along with the control equipment and egress points utilized by each piece of equipment. The intent of this term and condition including the table is to present information which will provide a basis for the content of the remaining terms and conditions involving the manufacturing line.

Equipment Description	CertainTeed Identification (ID)		
	Equipment ID	Egress Point ID	Control Equipment ID
*Line #1 Coater	EQ102	EP01/EP02	CD01
*Line #1 Surfacing – Blender Section	EQ105A		
*Line #1 Sealant Applicator	EQ112		
*Line #1 Overlay Conc. Mixer	EQ158		
*Line #1 Overlay Mixer	EQ159		
*Line #1 Plasticizer Pre-Heat Tank	T100-I		
Saturant Storage Tank	T105		
*Line #1 Overlay Asphalt Storage Tank	T106		
*Line #1 Sealant Day Tank	T107		
*Line #1 Sealant Use Tank	T108		
Line #2 Surfacing – Blender Section	EQ117A		
Line #2 Laminant/Sealant Concentrate Mixer	EQ156		
Line #2 Modified Sealant Mixer	EQ 157		
Line #2 Coater	EQ 178		
*Line #1 Horizontal Mixer	EQ 103	EP03	CD03
*Line #1 Vertical Mixer	EQ104		



Line #2 Horizontal Mixer	EQ115	EP08	CD06
Line #2 Vertical Mixer	EQ116		
Line #2 Surfacing – Backing Application	EQ117B		
Line #2 Shelby	EQ119		
Line #2 Granule Use Bin	EQ120		
Line #2 Reclaim System Elevator	EQ121		
Line #2 Headlap Belt	EQ148		
*Line #1 Headlap Belt No.1	EQ149		
*Line #1 Headlap Belt No.2	EQ150		
Line #2 Granule Belt No.1	EQ153		
Line #2 Granule Belt No.2	EQ154		
Line #2 Backing Use Bin	EQ118		
Line #2 Sealant Applicator	EQ179	EP11	CD08
Line #2 Upper Laminant Applicator A	EQ125		
Line #2 Upper Laminant Applicator B	EQ126		
Line #2 Lower Laminant Applicator	EQ127		
Line #2 Sealant Use Tank	T110		
Line #2 Sealant Day Tank	T109		
Line #2 Laminant Day Tank	T111		
Line #2 Laminant Use Tank	T112		
Line #2 Cooling Section	EQ122	EP10	Uncontrolled
Line #2 Nail Line Paint Applicator	EQ124	EP37	Uncontrolled

*The CVM coalescing filter/mist eliminator (CD01), Flat-Bed HEAF (CD03) and Baghouse (CD06) are also used to control emissions from the identified equipment for Asphalt Shingle Process Line #1 (emissions unit P101).

- b. Best Available Technology (BAT) control requirements for this emissions unit has been determined to be the following:
 - i. compliance with 40 CFR Part 60, Subpart UU;
 - ii. compliance with OAC rule 3745-31-05(D);
 - iii. compliance with the terms and conditions of this permit; and
 - iv. use of the following air pollution control equipment: and compliance with the associated emissions limitations:
 - (a) a CVM coalescing filter/mist eliminator (CD01) resulting in emissions of particulate matter 10 microns or less in diameter (PM10) discharged which does not exceed 0.068 lb/ton of coating asphalt used for the following equipment in emission units P101 and P102 (CD01 is also used to control emissions unit T105):

CertainTeed ID for Source Equipment	Source Equipment
EQ117A	Line #2 Surfacing – Blender Section



CertainTeed ID for Source Equipment	Source Equipment
EQ156	Laminant/Sealant Concentrate Mixer
EQ157	Modified Sealant Mixer
EQ178	Line #2 Coater
EQ102	Line #1 Coater
EQ105A	Line #1 Surfacing - Blender Section
EQ112	Line #1 Sealant Applicator
EQ158	Overlay Concentrate Mixer
EQ159	Overlay Mixer
T100-I	Plasticizer pre-heat tank
T105	Saturant Asphalt Storage Tank
T106	Overlay Asphalt Storage Tank
T107	Line #1 Sealant Day Tank
T108	Line #1 Sealant Use Tank

- (b) a Flat-Bed HEAF (CD03) resulting in emissions discharged which does not exceed 0.0571 lb PM10/ton of coating asphalt used, for the following equipment:

CertainTeed ID for Source Equipment	Source Equipment
EQ115	Line #2 Horizontal Mixer
EQ116	Line #2 Vertical Mixer
EQ103	Line #1 Horizontal Mixer
EQ104	Line #1 Vertical Mixer

- (c) a baghouse (CD06) resulting in emissions discharged which does not exceed 0.07468 lb PM10/ton of coating asphalt used for the following equipment:

CertainTeed ID for Source Equipment	Source Equipment
EQ117B	Line #2 Surfacing - Backing Application



CertainTeed ID for Source Equipment	Source Equipment
EQ119	Line #2 Shelby
EQ120	Line #2 Granule Use Bins
EQ121	Line #2 Reclaim System Elevator
EQ148	Line #2 Headlap Belt
EQ149	Line #1 Headlap Belt No.1
EQ150	Line #1 Headlap Belt No.2
EQ153	Line #2 Granule Belt No.1
EQ154	Line #2 Granule Belt No.2

- (d) a baghouse (CD07) resulting in emissions discharged which does not exceed 0.015 grains PM10/dscf used for the following equipment:

CertainTeed ID for Source Equipment	Source Equipment
EQ118	Line #2 Backing Use Bin

- (e) Mini-HEAF (CD08) resulting in emissions discharged which does not exceed 0.008579 lb PM10/ton of coating asphalt used for the following equipment:

CertainTeed ID for Source Equipment	Source Equipment
EQ179	Line #2 Sealant Applicator
EQ125	Line #2 Upper Laminant Applicator A
EQ126	Line #2 Upper Laminant Applicator B
EQ127	Line #2 Lower Laminant Applicator Double-Wide
T110	Line #2 Sealant Use Tank
T109	Line #2 Sealant Day Tank
T111	Line #2 Laminator Day Tank
T112	Line #2 Laminator Use Tank

v. This table lists emissions limitations for each egress point:

CertainTeed ID for Emission Point	OC lbs/hr	PM10* lb/ton	CO lbs/hr	SO2 lbs/hr
EP01/EP02** (when storing saturant in T105)	8.33	0.068	6.81	1.13
EP01/EP02** (when storing AC-20 in T105)	9.18	0.068	6.88	1.13
EP03**	0.64**	0.0571**	0.57	0
EP08**	2.84	0.07468	0.68	0.13
EP09	0	0.05143 (lb/hr)	0	0
EP10	3.10	0.4284	1.49	0.29
EP11	0.43	0.00858	0.10	0

*All emissions of particulate matter are considered to be PM10.

** Combined limit for P101, P102, and T105.

c. Visible PE 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)
EP08	20% opacity, as a six-minute average, except as provided by rule	OAC rule 3745-17-07(A)
EP09	0% opacity	OAC rule 3745-31-05(A)(3)
EP10	20% opacity, as a six-minute average, except as provided by rule	OAC rule 3745-17-07(A)



CertainTeed ID for Emission Point	Opacity Requirement	Regulatory Basis for Opacity Requirement
EP11	0% opacity	OAC rule 3745-31-05(A)(3)

- d. 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
EQ178	Line #2 coater
EQ102	Line #1 coater
T105	Saturant Asphalt Storage Tank
T106	Overlay Asphalt Storage Tank
T107	Line #1 Sealant Day Tank
T108	Line #1 Sealant Use Tank
T110	Line #2 sealant use tank
T109	Line #2 sealant day tank
T111	Line #2 laminator day tank
T112	Line #2 laminator use tank

- e. The emissions limitation specified by this applicable rule for the Line #2 coater (0.08 lb particulate matter (PM)/ton of asphalt shingle produced) is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3) for EP01/EP02 [see b)(2)b.v.]
- f. The visible emission limitations specified by this rule are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05(A)(3) and 40 CFR Part 60.472(a) and (c) [see b)(2)c.].
- g. The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).
- h. The potential to emit for emissions of SO₂ from this emissions unit is less than the emission limitation pursuant to this rule. The potential to emit for SO₂ is 1.55 lbs per hour and is the cumulative total of the SO₂ limitations contained in b)(2)b.v.

- i. On February 18, 2008, OAC rule 3745-21-07 was revised in its entirety; therefore, the 21-07 rule that was in effect prior to this date is no longer part of the State regulations. On April 4, 2008, the rule revision was submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP); however, until the U.S. EPA approves the revision to OAC rule 3745-21-07, the requirement to comply with the previous 21-07 rule provisions still exists as part of the federally-approved SIP for Ohio. The following terms and conditions shall become void after U.S. EPA approves the rule revision: b)(1)e. c)(1), d)(2), and e)(4).

The emission limitations and control requirements from the amended 21-07 rule, and the associated operational restrictions and the monitoring, record keeping, and reporting requirements contained in this permit, shall become federally enforceable on the date the U.S. EPA approves the revised OAC rule 3745-21-07 as a revision to the Ohio State Implementation Plan. The following terms shall become federally enforceable after U.S. EPA approves the rule revision: none.

c) Operational Restrictions

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

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the following information for emission units P101, P102, and T105:
 - a. coating asphalt usage in each emissions unit, in tons;
 - b. coating asphalt usage in emissions units P101 and P102 combined;
 - c. asphalt applied at the Overlay Applicator;
 - d. saturant asphalt use;
 - e. plasticizer use;
 - f. Line No. 2 paint use in gallons;
 - g. AC-20 Asphalt use;
 - h. Hours of operation of CD05 and CD07;
 - i. during the first 12 calendar months of operation, the cumulative coating asphalt usage in emissions units P101 and P102 combined, in tons;
 - j. beginning the first month after the first 12 calendar months of operation, the rolling, 12-month summation of the coating asphalt usage in emissions units P101 and P102 combined, in tons;
 - k. the calculated monthly emission rate for OC for P101, P102, and T105 combined using the following equation:

OC emissions in tons = (Throughput) x (company supplied emission factors) x (1 ton/2000 lbs)

EP No.	Emission Factor	Throughput
EP01/EP02	0.2239 lb/ton, coating asphalt	Tons, coating asphalt for Line No. 1 plus Line No. 2
	0.769 lb/ton, saturant (or AC-20) asphalt	Tons, saturant (or AC-20) asphalt (T105)
	0.7404 lb/ton, Overlay asphalt	Tons, Overlay asphalt (EQ158, EQ159 & T106)
	0.0068 lb/ton, plasticizer	Tons, plasticizer(T100-I)
EP03	0.01735 lb/ton, coating asphalt	Tons, coating asphalt for Line No. 1 plus Line No. 2
EP04	0.05011 lb/ton, coating asphalt	Tons, coating asphalt for Line No. 1
EP05/EP06/EP07	0.1164 lb/ton, coating asphalt	Tons, coating asphalt for Line No. 1
EP38	0.2155 lb/ton, Overlay asphalt	Tons, Overlay asphalt
EP34	0.02688 lb/ton, coating asphalt	Tons, coating asphalt for Line No. 1
EP08	0.1313 lb/ton, coating asphalt	Tons, coating asphalt for Line No. 2
EP10	0.1433 lb/ton, coating asphalt	Tons, coating asphalt for Line No. 2
EP11	0.01991 lb/ton, coating asphalt	Tons, coating asphalt for Line No. 2
EP37	0.3814 lb/gallon, paint	Gallons, paint use on Line No. 2

- I. lthe calculated monthly emission rate for PM10 for P101, P102, and T105 combined using the following equation:

PM10 emissions in tons = (Throughput) x (company supplied emission factors) x (1 ton/2000 lbs)

EP No.	Emission Factor	Throughput
EP01/EP02	0.068 lb/ton, coating asphalt	Tons, coating asphalt for Line No. 1 plus Line No. 2
	0.00316 lb/ton, saturant (or AC-20) asphalt	Tons, saturant (or AC-20) asphalt (T105)
	0.003685 lb/ton, Overlay asphalt	Tons, Overlay asphalt (EQ158, EQ159 & T106)
	0.000788 lb/ton, plasticizer	Tons, plasticizer (T100-I)
EP03	0.0571 lb/ton, coating asphalt	Tons, coating asphalt for Line No. 1 plus Line No. 2
EP04	0.08965 lb/ton, coating asphalt	Tons, coating asphalt for Line No. 1



EP36	0.05143 lb/hr	Hours CD05 operated.
EP05/EP06/EP07	0.3396 lb/ton, coating asphalt	Tons, coating asphalt for Line No. 1
EP38	0.755 lb/ton, Overlay asphalt	Tons, Overlay asphalt
EP34	0.08879 lb/ton, coating asphalt	Tons, coating asphalt for Line No. 1
EP08	0.07468 lb/ton, coating asphalt	Tons, coating asphalt for Line No. 2
EP09	0.05143 lb/hr	Hours CD07 operated.
EP10	0.4284 lb/ton, coating asphalt	Tons, coating asphalt for Line No. 2
EP11	0.008579 lb/ton, coating asphalt	Tons, coating asphalt for Line No. 2

- m. the calculated monthly emission rate of CO for P101, P102, and P105 combined using the following equation:

$$\text{CO emissions in tons} = (\text{Throughput}) \times (\text{company supplied emission factors}) \times (1 \text{ ton}/2000 \text{ lbs})$$

EP No.	Emission Factor	Throughput
EP01/EP02	0.368 lb/ton, coating asphalt	Tons, coating asphalt for Line No. 1 plus Line No. 2 (EQ102 & EQ178)
	0.003183 lb/ton coating asphalt	Coating asphalt throughput is for Line No. 1. (EQ112, T107 & T108)
	0.0572 lb/ton, saturant (or AC-20) asphalt	Tons, saturant (or AC-20) asphalt (T105)
	0.00057 lb/ton, laminant & sealant asphalt	Laminant and sealant asphalt throughput is for Line No. 1 and Line No. 2 combined. (EQ156 & EQ157)
	0.00242 lb/ton, Overlay asphalt	Tons, Overlay asphalt (EQ158, EQ159 & T106)
	0.000285 lb/ton, plasticizer	Tons, plasticizer (T100-I)
EP03	0.0311 lb/ton, coating asphalt	Tons, coating asphalt for Line No. 1 plus Line No. 2
EP04	0.0823 lb/ton, coating asphalt	Tons, coating asphalt for Line No. 1
EP05/EP06/EP07	0.0689 lb/ton, coating asphalt	Tons, coating asphalt for Line No. 1
EP38	0.184 lb/ton, Overlay asphalt	Tons, Overlay asphalt
EP08	0.0313 lb/ton, coating asphalt	Tons, coating asphalt for Line No. 2
EP10	0.0689 lb/ton, coating asphalt	Tons, coating asphalt for Line No. 2



EP11	0.01058 lb/ton, coating asphalt	Tons, coating asphalt for Line No. 2
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- n. the calculated monthly emission of SO₂ for P101, P102, and P105 combined using the following equation:

$$\text{SO}_2 \text{ emissions in tons} = (\text{Throughput}) \times (\text{company supplied emission factors}) \times (1 \text{ ton}/2000 \text{ lbs})$$

EP No.	Emission Factor	Throughput
EP01/EP02	0.0614 lb/ton, coating asphalt	Tons, coating asphalt for Line No. 1 plus Line No. 2
	0.0111 lb/ton, Overlay asphalt	Tons, Overlay asphalt (EQ158, EQ159)
EP04	0.0158 lb/ton, coating asphalt	Tons, coating asphalt for Line No. 1
EP05/EP06/EP07	0.0132 lb/ton, coating asphalt	Tons, coating asphalt for Line No. 1
EP38	0.00307 lb/ton, Overlay asphalt	Tons, Overlay asphalt
EP08	0.00601 lb/ton, coating asphalt	Tons, coating asphalt for Line No. 2
EP10	0.0132 lb/ton, coating asphalt	Tons, coating asphalt for Line No. 2

- (2) The permittee shall collect and record the following information each month for emissions unit P102:
- a. the company identification for each coating asphalt material employed; and
 - b. documentation of whether or not each coating asphalt material employed is photochemically reactive material.
- (3) 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 filter (CD01);
 - b. the Flat-Bed HEAF (CD03);
 - c. a baghouse (CD06);
 - d. a baghouse (CD07); and,
 - e. a Mini-HEAF (CD08).

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, CD03, CD06, CD07 and CD08.

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

CD01: 2.0 - 12.0 inches of water

CD03: 24.0 - 32.0 inches of water

CD06: 0.5 - 7.0 inches of water

CD07: 0.5 - 7.0 inches of water

CD08: 6.0 - 35.0 inches of water (Mini-HEAF)

These ranges are effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate 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.

- (4) 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 filter (CD01), 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.

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 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.

- (5) 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 District Office or local air agency. The permittee may request a revision to this maximum temperature based upon information obtained during future organic compound emission tests that demonstrate compliance with the allowable organic compound 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.
- (6) Modeling to demonstrate compliance with, the Toxic Air Contaminant Statute, ORC 3704.03(F)(4)(b), was not necessary because this permit action does not involve an increase in any toxic air contaminant, as defined in OAC rule 3745 114 01, greater than 1.0 ton per year. OAC Chapter 3745 31 requires permittees to apply for and obtain a new or modified PTI prior to making a "modification" as defined by OAC rule 3745 31 01. The permittee is hereby advised that changes in the composition of the materials or use of new materials that would cause the emissions of any toxic air contaminant to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new PTI.

e) Reporting Requirements

- (1) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.
- (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 pressure drop across the CVM coalescing filter (CD01), the Flat-Bed HEAF (CD03), the baghouses (CD06 and CD07) or the Mini-HEAF (CD08) was outside of the acceptable range;
 - f. an identification of each incident of deviation described in e)(2)a. where a prompt investigation was not conducted;
 - g. an identification of each incident of deviation described in e)(2)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
 - h. an identification of each incident of deviation described in e)(2)a. where proper records were not maintained for the investigation and/or the corrective action.

The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).

- (3) 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 filter (CD01), was above the acceptable maximum;
 - b. an identification of each incident of deviation described in e)(2)a. where a prompt investigation was not conducted;
 - c. an identification of each incident of deviation described in e)(2)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 e)(2)a. where proper records were not maintained for the investigation and/or the corrective action.

The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September),

unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).

- (4) The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any record showing the use of photochemically reactive coating asphalt materials in this emissions unit. The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 30 days following the end of the calendar month.
- f) **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 180 days after the issuance of this permit.
 - b. The emission testing shall be conducted to demonstrate compliance with the following limits:
 - i. the OC mass emission limitations of:
 - (a) 8.33 lbs OC/hr for EP01/EP02* (when storing AC-20 in T105);
 - (b) 9.18 lbs OC/hr for EP01/EP02* (when storing AC-20 in T105);
 - (c) 0.64 lb OC/hr for EP03*;
 - (d) 2.84 lbs OC/hr for EP08;
 - (e) 3.10 lbs OC/hr for EP10;
 - (f) 0.43 lb OC/hr for EP11; and
 - (g) 2.32 lbs OC/hr for EP37.
 - ii. the PM10 mass emission limitations of:
 - (a) 0.068 lb* PM10/ton of coating asphalt for EP01/EP02*;
 - (b) 0.0571 lb PM10/hour for EP03*;
 - (c) 1.62 lbs PM10/ton of coating asphalt for EP08;
 - (d) 0.05143 lb PM10/hour for EP09;
 - (e) 0.4284 lb PM10/ton of coating asphalt for EP10; and
 - (f) 0.00858 lb PM10/ton of coating asphalt for EP11.
 - iii. 20% opacity when the coater is operating, otherwise 0% opacity, for the coalescing filter/mist eliminator (CD01).



* Combined limit for emissions units P101, P102, and T105 (i.e., P101 and P102 both must be operating simultaneously during the test).

- 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 201/201A and 202 of 40 CFR Part 51, Appendix M;
iii. for OC - Method 18, 25, or 25A (as applicable) of CFR Part 60, Appendix A;
iv. to demonstrate compliance with the NSPS emission limitation of 0.08 lb PM/ton of asphalt shingle produced for the line #2 coater, the permittee will demonstrate compliance with the more stringent limitation of 0.068 lb PM10/ton for EP01/EP02. Testing for the lb/ton limitation shall be done in accordance with 60.474 and 60.8 of 40 CFR Part 60 only PM is substituted with PM10; and
v. for compliance with the NSPS emissions limitation of 20% opacity when the coater is operating, otherwise 0% opacity, for the coalescing filter/mist eliminator (CD01), testing shall be done in accordance with Method 9 of 40 CFR Part 60, Appendix A.
vi. for compliance with the 2.32 lbs OC/hr for EP37, the permittee shall record paint usage, in gallons, during compliance testing of P102. The gallon usage rate shall be multiplied by the OC content of the paint used in lbs/gallon.

Alternative U.S. EPA approved test methods may be used with prior approval from the appropriate District Office or local air agency.

(2) Compliance with the emission limitation(s) in section b)(2) of the terms and conditions of this permit shall be determined in accordance with the following method(s):

f. Emission Limitations:

Table with 5 columns: CertainTeed ID Emission Point, OC lbs/hr, OC TPY, PM10* lb/ton, PM10* TPY. Rows include EP01/EP02** (when storing saturant in T105), EP01/EP02** (when storing AC-20 in T105), EP01/EP02 (T105)***, EP03**, and EP08.



CertainTeed ID Emission Point	OC lbs/hr	OC TPY	PM10* lb/ton	PM10* TPY
EP09	0	0	0.05143 (lb/hr)	0.21
EP10	3.10	11.25	0.4284	33.63
EP11	0.43	1.56	0.00858	0.67
EP37	2.32	10.16		

*All emissions of particulate matter are assumed to be PM10.

**Combined limit for P101 and P102.

*** PM10 units for T105 are lbs/ton, saturant (or AC-20)

Applicable Compliance Methods:

Compliance with all short-term limitations shall be demonstrated through stack testing as required in f)(1).

The ton/year limitations were established by multiplying the maximum process throughputs per year with the company supplied emission factor and applying a conversion factor of 1 ton/2000 lbs. Therefore, provided compliance is shown with the short term limitations compliance with the annual emission limitations shall also be demonstrated.

g. Emission Limitation:

CertainTeed ID Emission Point	CO lbs/hr	CO TPY
EP01/EP02 (when storing saturant in T105)	6.81	25.74
EP01/EP02 (when storing AC-20 in T105)	6.88	26.00
EP03	0.57	2.16
EP08	0.68	2.46
EP09	0	0
EP10	1.49	5.41
EP11	0.10	0.35

Applicable Compliance Methods:

For EP08, EP10 and EP11, the permittee shall demonstrate compliance with the lb/hr limitation for CO by multiplying a maximum coating asphalt usage rate of 21.65 tons/hr by the company supplied emission factors in units of lbs/ton coating asphalt used, specific to individual components of the line. For EP01/EP02 use a maximum Line 1 and Line 2 combined coating rate of 36.716 tons/hr, a maximum



Line 1 coating rate of 15.06 tons/hr, a maximum saturant rate of 0.1429 ton/hr (when saturant is stored in T105) or AC-20 usage rate of 1.246 tons/hr (when AC-20 asphalt is stored in T105), a maximum laminant use rate of 0.67687 ton/hr and a maximum sealant rate of 0.5696 ton/hr. For EP03, use the maximum coating asphalt rate of 36.716 tons/hr

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

The ton/year limitations were established by multiplying the maximum tons of coating asphalt usage per year with the CO emissions factor and applying a conversion factor of 1 ton/2000 lbs. Therefore, provided compliance is shown with the monitoring and record keeping requirements, compliance with the limitations shall also be demonstrated.

h. Emission Limitation:

CertainTeed ID Emission Point	SO2 lbs/hr	SO2 TPY
EP01/EP02	1.13	4.26
EP03	0	0
EP08	0.13	0.47
EP09	0	0
EP10	0.29	1.04
EP11	0	0

Applicable Compliance Methods:

For EP08, EP10 and EP11, the permittee shall demonstrate compliance with the lb/hr limitation for SO2 by multiplying a maximum coating asphalt usage rate of 21.65 tons/hr by the company supplied emission factors in units of lbs/ton of coating asphalt used, specific to individual components of the line. For EP01/EP02 and EP03, use the maximum coating asphalt rate of 36.716 tons/hr

If required, compliance shall be demonstrated by testing for SO2 using Method 6 of CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the appropriate District Office or local air agency.

The ton/year limitations were established by multiplying the tons of asphalt usage per year with the SO2 emissions factor and applying a conversion factor of 1 ton/2000 lbs. Therefore, provided compliance is shown with the short term limitations compliance with the annual emission limitations shall also be demonstrated.



i. Emission Limitation:

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

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.

e. Emission Limitation:

CertainTeed ID for Emission Point	Opacity Requirement
EP03	0% opacity
EP09	0% opacity
EP11	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.

f. Emission Limitation:

CertainTeed ID for Emission Point	Opacity Requirement
EP08	20% opacity, as a six-minute average, except as provided by rule
EP10	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).

g) Miscellaneous Requirements

- (1) None.