



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

12/21/2012

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

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL
Facility ID: 0322000017
Permit Number: P0112322
Permit Type: Administrative Modification
County: Erie

Certified Mail

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

Dear Permit Holder:

Enclosed please find a final Ohio Environmental Protection Agency (EPA) 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. Because this permit contains conditions and restrictions, please read it very carefully. In this letter you will find the information on the following topics:

- **How to appeal this permit**
- **How to save money, reduce pollution and reduce energy consumption**
- **How to give us feedback on your permitting experience**
- **How to get an electronic copy of your permit**

How to appeal this permit

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
77 South High Street, 17th Floor
Columbus, OH 43215

How to save money, reduce pollution and reduce energy consumption

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. Additionally, all or a portion of the capital expenditures related to installing air pollution control equipment under this permit may be eligible for financing and State tax exemptions through the Ohio Air Quality Development Authority (OAQDA) under Ohio Revised Code Section 3706. For more information, see the OAQDA website: www.ohioairquality.org/clean_air

How to give us feedback on your permitting experience

Please complete a survey at www.epa.ohio.gov/dapc/pemitsurvey.aspx and give us feedback on your permitting experience. We value your opinion.

How to get an electronic copy of your permit

This permit can be accessed electronically via the eBusiness Center: Air Services in Microsoft Word format or in Adobe PDF on the Division of Air Pollution Control (DAPC) Web page, www.epa.ohio.gov/dapc by clicking the "Search for Permits" link under the Permitting topic on the Programs tab.

If you have any questions, please contact Ohio EPA DAPC, Northwest District Office at (419)3528461 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469.

Sincerely,

Michael W. Ahern

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:	P0112322
Permit Type:	Administrative Modification
Issued:	12/21/2012
Effective:	12/21/2012



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

Table of Contents

Authorization	1
A. Standard Terms and Conditions	3
1. Federally Enforceable Standard Terms and Conditions	4
2. Severability Clause	4
3. General Requirements	4
4. Monitoring and Related Record Keeping and Reporting Requirements.....	5
5. Scheduled Maintenance/Malfunction Reporting	6
6. Compliance Requirements	6
7. Best Available Technology	7
8. Air Pollution Nuisance	7
9. Reporting Requirements	7
10. Applicability	8
11. Construction of New Sources(s) and Authorization to Install	8
12. Permit-To-Operate Application	9
13. Construction Compliance Certification	9
14. Public Disclosure	9
15. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations	10
16. Fees.....	10
17. Permit Transfers	10
18. Risk Management Plans	10
19. Title IV Provisions	10
B. Facility-Wide Terms and Conditions.....	11
C. Emissions Unit Terms and Conditions	16
1. T105, Saturant/AC-20 Asphalt Storage Tank	17
2. Emissions Unit Group -Coating Asphalt Storage Tanks: T101,T102,T103,T104,	28



Final Permit-to-Install
CertainTeed Corp.
Permit Number: P0112322
Facility ID: 0322000017
Effective Date: 12/21/2012

Authorization

Facility ID: 0322000017
Facility Description: Asphalt Felts and Coatings
Application Number(s): M0002023
Permit Number: P0112322
Permit Description: Administrative Modification to make minor changes to emission limitations for T105 and Emissions Unit Group T101, T102, T103, and T104.
Permit Type: Administrative Modification
Permit Fee: \$0.00
Issue Date: 12/21/2012
Effective Date: 12/21/2012

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.

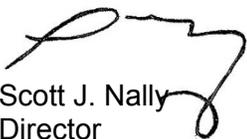
Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

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: P0112322
 Permit Description: Administrative Modification to make minor changes to emission limitations for T105 and Emissions Unit Group T101, T102, T103, and T104.

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

Emissions Unit ID: T105
 Company Equipment ID: Saturant/AC-20 Asphalt Storage Tank
 Superseded Permit Number: P0111888
 General Permit Category and Type: Not Applicable

Group Name: Coating Asphalt Storage Tanks

Emissions Unit ID:	T101
Company Equipment ID:	Coating Asphalt Storage Tank #1 (50,000 gal)
Superseded Permit Number:	P0111888
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	T102
Company Equipment ID:	Coating Asphalt Storage Tank #2 (50,000 gal)
Superseded Permit Number:	P0111888
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	T103
Company Equipment ID:	Asphalt Storage Tank #3 (50,000 gal)
Superseded Permit Number:	P0111888
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	T104
Company Equipment ID:	AC-20 Asphalt Storage Tank #4 (50,000 gal)
Superseded Permit Number:	P0111888
General Permit Category and Type:	Not Applicable



Final Permit-to-Install
CertainTeed Corp.
Permit Number: P0112322
Facility ID: 0322000017
Effective Date: 12/21/2012

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, 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 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, and reporting requirements 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 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.)

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.



Final Permit-to-Install
CertainTeed Corp.
Permit Number: P0112322
Facility ID: 0322000017
Effective Date: 12/21/2012

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.

2. This permit establishes the following facility-wide terms and conditions for purposes of establishing federally enforceable requirements to limit the potential to emit (PTE) of organic compounds (OC) from the facility. For purposes of federal enforceability, restrictions on OC emissions effectively restricts emissions of volatile organic compounds. The federally enforceable restrictions are being established for purposes of avoiding "Prevention of Significant Deterioration" (PSD) applicability.
 - a) This permit establishes an operational restriction which limits coating asphalt usage at the facility to a level not to exceed 200,000 tons, based upon a rolling 12-month period. Based on the configuration of asphalt shingle manufacturing operations at the facility, the usage restriction limits the throughput capacity of:
 - (1) all materials used by the asphalt shingle production lines at the facility (emissions units P101 and P102); and
 - (2) storage tank operations (emissions units; T101, T102, T103, T104, and T105).
 - b) Based on the asphalt coating usage restriction, this permit establishes the following federally enforceable emission limitations:
 - (1) Combined emissions from emissions units P101, P102, T101, T102, T103, T104, and T105 shall not exceed the following:
 - a. 142.14 tons OC per rolling, 12-month period;
 - b. 64.34 tons of emissions of particulate matter 10 microns or less in size (PM10)* per rolling, 12-month period;
 - c. 32.80 tons carbon monoxide (CO)* per rolling, 12-month period; and
 - d. 5.22 tons sulfur dioxide (SO2)* per rolling, 12-month period (it should be noted that SO2 is not emitted from storage tank operations).
 - c) To ensure enforceability during the first 12 calendar months of operation under the provisions of this permit, the coating asphalt usage at the facility shall not exceed the usage levels specified in the following table:

*The coating asphalt usage restriction established to restrict OC emissions also restricts emissions of PM10, CO, and SO2. The limitations for PM10, CO, and SO2; therefore, reflect the PTE based on the coating asphalt usage restriction, but federally enforceable restrictions were not necessary to avoid PSD applicability.



**MAXIMUM ALLOWABLE CUMULATIVE
 MONTH(S) COATING ASPHALT USAGE (TONS)**

1	25,000
1-2	50,000
1-3	75,000
1-4	100,000
1-5	125,000
1-6	150,000
1-7	175,000
1-8	200,000
1-9	200,000
1-10	200,000
1-11	200,000
1-12	200,000

After the first 12 calendar months of operation under the provisions of this permit, compliance with the coating asphalt usage limitation shall be based upon a rolling, 12-month summation of the monthly usage rates.

- d) The permittee shall maintain monthly records of the following information to demonstrate compliance with the facility coating asphalt usage restriction: [Compliance with the coating asphalt usage for the facility shall be determined by the coating asphalt usage in emissions units P101 and P102, combined.]
 - (1) coating asphalt usage in emissions unit P101 each month, in tons;
 - (2) coating asphalt usage in emissions unit P102 each month, in tons;
 - (3) coating asphalt usage in emissions units P101 and P102, combined, in tons;
 - (4) during the first 12 calendar months of operation following the issuance of this permit, the cumulative coating asphalt usage in emissions units P101 and P102, combined, in tons;
 - (5) 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;

- e) The permittee shall maintain monthly records of the following information to demonstrate compliance with combined emission limitations contained in B.2.c. above.
 - (1) combined emissions from P101, P102, and T105 of:
 - a. OC, in tons;
 - b. CO, in tons;
 - c. PM10, in tons;
 - d. SO2, in tons.



Monitoring and record keeping requirements of the emissions from individual emissions units are contained Section C - Emissions Units Terms and Conditions.

- (2) combined emissions from T101, T102, T103, and T104 of:
 - a. OC, in tons;
 - b. CO, in tons;
 - c. PM10, in tons.

Monitoring and record keeping requirements of the emissions from individual emissions units are contained Section C - Emissions Units Terms and Conditions.

- (3) total combined emissions from P101, P102, T101, T102, T103, and T104 of:
 - a. OC, in tons;
 - b. CO, in tons;
 - c. PM10, in tons;
 - d. SO₂, in tons.
- (4) during the first 12 calendar months of operation under the provisions of this permit, the permittee shall record the cumulative emissions for P101, P102, T101, T102, T103, and T104 combined of:
 - a. OC, in tons;
 - b. CO, in tons;
 - c. PM10, in tons;
 - d. SO₂, in tons.
- (5) beginning the first month after the first 12 calendar months of operation, the rolling, 12-month summation of the emission rate for P101, P102, T101, T102, T103, and T104 combined of:
 - a. OC, in tons;
 - b. CO, in tons;
 - c. PM10, in tons;
 - d. SO₂, in tons.



- f) The permittee shall submit quarterly deviation (excursion) reports that identify:
- (1) all exceedances of the rolling, 12-month coating asphalt usage restriction for the facility; and for the first 12 calendar months of operation under the provisions of this permit, all exceedances of the maximum allowable cumulative coating asphalt usage levels;
 - (2) all exceedances of the following rolling, 12-month emissions limitations for emissions units P101, P102, T101, T102, T103, T104, and T105, combined:
 - a. 142.14 tons OC/rolling, 12-month period;
 - b. 64.34 tons PM10/rolling, 12-month period;
 - c. 32.80 tons CO/rolling, 12-month period; and
 - d. 5.22 tons SO2/rolling, 12 month period
 - e. the probable cause of each deviation (excursion);
 - f. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
 - g. the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

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 CertainTeed Corp. facility located in Avery, Ohio has always had potential emissions of hazardous air pollutants (HAP) below the MACT major source threshold of 10 tons for an individual HAP and less than 25 tons for combined HAPs. The operational restriction limiting coating asphalt usage at the facility to 200,000 tons per rolling, 12-month period will maintain potential emissions of HAPs below MACT major source thresholds.
4. The permittee should be advised that this facility is subject to the "Generally Available Control Technology" (GACT) requirements under 40 CFR Part 63 Subpart AAAAAAA (National Emission Standards for Hazardous Air Pollutants for Area Sources: Asphalt Processing and Asphalt Roofing Manufacturing). The U.S. EPA is responsible for the administration of the requirements of this rule at this time. It should be noted that the enforcement authority of the GACT requirements is not delegated to Ohio EPA at the time of this permit processing. The complete requirements of this rule (including the Part 63 General Provisions) may be accessed via the Internet from the Electronic Code of Federal Regulations (e-CFR) website <http://www.ecfr.gpoaccess.gov> or by contacting the appropriate District Office or local air agency.



Final Permit-to-Install
CertainTeed Corp.
Permit Number: P0112322
Facility ID: 0322000017
Effective Date: 12/21/2012

C. Emissions Unit Terms and Conditions



1. T105, Saturant/AC-20 Asphalt Storage Tank

Operations, Property and/or Equipment Description:

15,000 gallon saturant asphalt storage tank

- 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) b)(1)g. and d)(6).
- 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)(a)	Control measures – see b)(2)b.iv. Short-term emission limitations – see b)(2)c. Visible emission restriction – see b)(2)d. 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: 142.14 tons organic compounds (OC)/rolling, 12-month period; 64.34 tons emissions of particulate matter 10 microns or less in size (PM10)/rolling, 12-month period; 32.80 tons carbon monoxide (CO)/rolling, 12-month period 5.22 tons sulfur dioxide (SO2)/rolling, 12-month period See Section B.2
c.	OAC rule 3745-17-07(A)	See b)(2)f.
d.	OAC rule 3745-17-11(B)	See b)(2)f.
e.	OAC rule 3745-21-07(G)	See c)(1)



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
f.	40 CFR Part 60, Subpart UU	See b)(2)c. through b)(2)e.
g.	ORC 3704.03(F) OAC rule 3745-114-01	See d)(6)

(2) Additional Terms and Conditions

- a. Emissions unit T105 is a saturant asphalt (or AC-20 asphalt) storage tank that serves both emissions units P101 and P102. Emissions from T105 are controlled by a CVM coalescing filter/mist eliminator (CD01). Controlled emissions from CD01 are vented through egress points EP01 and EP02. CD01 is used in the control of emissions from emissions units P101 and P102. Therefore all emission limitations for emissions unit T105 are combined emission limitations with emissions units P101 and P102 from egress points EP01 and EP02 [see emissions units P101 and P102 for additional details].
- 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;
 - iv. use of the following air pollution control equipment and compliance with associated emission limitations:
 - (a) CVM coalescing filter/mist eliminator (CD01) resulting in emissions discharged which do not exceed 0.068 lb PM10/ton of coating asphalt used. Emissions unit T105 and the following equipment are controlled by CD01:

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



CertainTeed ID for Source Equipment	Source Equipment
T105	Saturant Asphalt Storage Tank
T106	Overlay Asphalt Storage Tank
T107	Line #1 Sealant Day Tank
T108	Line #1 Sealant Use Tank

c. Emissions limitations for this emissions unit are summarized as follows:

CertainTeed ID for Emission Point	OC lb/hr*	PM10* (lb/ton)	CO lb/hr*
EP01/EP02 (when storing saturant in T105)	13.99	0.0680	5.49
EP01/EP02 (when storing AC-20 in T105)	14.17	0.0680	5.50

*combined emission limitation with emissions unit P101 and P102 from egress points EP01 and EP02.

d. Visible particulate emissions (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/EP02	0% opacity, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for clearing	40 CFR Part 60.472(c)

- e. New Source Performance Standards (NSPS), according to 40 CFR Part 60, Subpart UU, are applicable to this emissions unit.
- f. The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).
- g. 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)d. c)(1), d)(2), and e)(1).

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 storage of any photochemically reactive material, 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 documentation of whether or not each asphalt coating material employed is a photochemically reactive material.
- (2) 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 for 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	0.4721 lb/ton, coating asphalt	Tons, coating asphalt for Line No. 1 plus Line No. 2
	0.1498 lb/ton, saturant (or AC-20) asphalt	Tons, saturant (or AC-20) asphalt (T105)
	0.4561 lb/ton, Overlay asphalt	Tons, Overlay asphalt (EQ158, EQ159 & T106)
	0.0068 lb/ton, plasticizer	Tons, plasticizer(T100-I)
EP03	0.3979 lb/ton, coating asphalt	Tons, coating asphalt for Line No. 1 plus Line No. 2
EP04	0.126 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	0.4561 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	0.02373 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. the 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
	0.0005791 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



EP No.	Emission Factor	Throughput
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	0.1840 lb/ton, coating asphalt	Tons, coating asphalt for Line No. 1 plus Line No. 2
	0.00726 lb/ton, saturant (or AC-20) asphalt	Tons, saturant (or AC-20) asphalt (T105)
	0.00242 lb/ton, Overlay asphalt	Tons, Overlay asphalt (EQ158, EQ159 & T106)
	0.000285 lb/ton, plasticizer	Tons, plasticizer (T100-I)
	0.003183 lb/ton, coating asphalt	Tons, coating asphalt for Line No. 1 (EQ112, T107 & T108)
	0.000285 lb/ton, laminant and sealant asphalt	Tons, laminant and sealant asphalt for Line No. 1 and Line No. 2 (EQ16 & EQ157)
EP03	0.01555 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



EP No.	Emission Factor	Throughput
		Line No. 2
EP11	0.01058 lb/ton, coating asphalt	Tons, coating asphalt for Line No. 2

- n. the calculated monthly emission rate for SO₂ for emissions units P101, P102, and P105, combined, using the following equation:

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

EP No.	Emission Factor	Throughput
EP01/EP02	0.0307 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

- (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/mist eliminator (CD01)

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.

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

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 element 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) 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 asphalt coating 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.
- (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 filter/mist eliminator 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)(3)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).

f) Testing Requirements

- (1) 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):

a. Emission Limitations:

CertainTeed ID Emission Point	OC lbs/hr	PM10 (lb/ton)	CO lb/hr
EP01/EP02 (when storing saturant in T105)	13.99	0.068	5.49
EP01/EP02 (when storing AC-20 in T105)	14.17	0.0680	5.50

Applicable Compliance Methods:

The short term emission limitations are combined emission limitations with emissions unit P101 and P102. Compliance with the short term emission limitations for OC and PM10 shall be demonstrated by the emission testing requirements for emissions units P101 and P102 [see Testing requirements for emissions units P101 and P102].

The permittee shall demonstrate compliance with the lb/hr limitation for CO by multiplying a maximum Line 1 and Line 2 combined coating rate of 29.60 tons/hr, a maximum Line 1 coating rate of 12.21 tons/hr, a maximum saturant rate of 0.1429 tons/hr (when saturant is stored in T105) or AC-20 usage rate of 1.343 tons/hr (when AC-20 asphalt is stored in T105), a maximum laminant use rate of 1.331 tons/hr and a maximum sealant rate of 0.6102 tons/hr by the company supplied emission factors in units of lbs/ton coating asphalt used, lb/ton saturant or AC-20, lb/ton laminant and lb/ton sealant, specific to individual components of emissions unit P101 and P102 including T105 [see emissions units P101 and P102 for details]. If required, compliance shall demonstrated by testing for CO using Method 10 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.



b. Emission Limitation:

CertainTeed ID for Emission Point	Opacity Requirement
EP01/EP02	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 Method:

If required, compliance with the limit established by 40 CFR Part 60.472(c) shall be demonstrated in accordance with Method 9 of 40 CFR Part 60, Appendix A.

g) **Miscellaneous Requirements**

- (1) None.



2. Emissions Unit Group -Coating Asphalt Storage Tanks: T101,T102,T103,T104,

EU ID	Operations, Property and/or Equipment Description
T101	50,000 gallon coating asphalt storage tank #1
T102	50,000 gallon coating asphalt storage tank #2
T103	50,000 gallon asphalt storage tank #3
T104	50,000 gallon AC-20 asphalt storage tank #4

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) b)(1)g. and d)(3).

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. Short-term emission limitations – see b)(2)c. Visible emission restriction – see b)(2)d. See b)(2)a.
b.	OAC rule 3745-17-07(A)	See b)(2)f.
c.	OAC rule 3745-17-11(B)	See b)(2)f.
d.	OAC rule 3745-21-07(D)	See b)(2)g. and c)(1)
f.	40 CFR Part 60, Subpart UU	See b)(2)d. and b)(2)e.
g.	ORC 3704.03(F) OAC rule 3745-114-01	See d)(3)

(2) Additional Terms and Conditions

a. T101, T102, T103 and T104 are each 50,000 gallon asphalt storage tanks. Two of the tanks will be used at any one time for storage of coating asphalt and one tank will be used for storage of AC-20 asphalt. The specific tanks in service may vary, but for purposes of this permit it is assumed that T101 and T102 are actively storing coating asphalt and T104 is storing AC-20 asphalt. T103 is in reserve. An additional scenario has been described under T105 where use of saturant asphalt may be eliminated and AC-20 asphalt storage transferred to T105. All four tanks are connected for emission control to a cyclone (CD19) and



mist eliminator (CD20). Egress for emissions may be through the No. 1 Coating Asphalt Heater (B103, EP26), the No. 2 Coating Asphalt Heater (B104, EP27) or No. 3 AC-20/Coating Asphalt Heater (B105 and EP28).

The following table is presented for the purpose of identifying the specific manufacturing equipment involved along with the control equipment and egress point. 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
Coating Asphalt Storage Tank #1	T101	EP26, EP27 or EP28	CD19 and CD20
Coating Asphalt Storage Tank #2	T102		
Coating Asphalt Storage Tank #3	T103		
AC-20 Asphalt Storage Tank #4	T104		

- b. 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. a cyclone and mist eliminator (CD19 and CD20) resulting in emissions discharged which do not exceed 0.0005791 lb PM10/ton of coating asphalt and AC-20 asphalt used, for the following equipment:

CertainTeed ID for Source Equipment	Source Equipment
T101	Coating Asphalt Storage Tank #1
T102	Coating Asphalt Storage Tank #2
T103	Coating Asphalt Storage Tank #3
T104	AC-20 Asphalt Storage Tank #4

- c. Combined limitations for emissions units T101, T102, T103, and T104 are summarized as follows:

CertainTeed ID for Emission Point	OC lbs/hr	PM10* lb/ton	CO lbs/hr
EP26, EP27 or EP28**	4.43	0.0005791	0.21

*All particulate emissions (PE) are considered to be PM10.

**Combined emissions limitation for emission units T101, T102, T103 and T104. This does not include products of combustion from asphalt heater.



- d. 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
EP26, EP27 or EP28 (when tanks are connected)	0% opacity, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for clearing	OAC rule 3745-31-05(A)(3)

- e. New Source Performance Standards (NSPS), according to 40 CFR Part 60, Subpart UU, does not apply to T101, T102, T103 and T104 since all four storage tanks were constructed prior to November 18, 1980 and not modified since.
- f. The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).
- g. 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)d. c)(1), d)(2), and e)(1).

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 storage of any photochemically reactive material, 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 T101, T102, T103, and T104:



- a. coating asphalt throughput for each emissions unit, in tons;
- b. AC-20 asphalt throughput for each unit, in tons;
- c. coating and AC-20 asphalt throughput for emission units T101, T102, T103, and T104 combined;
- d. the calculated monthly emission rate for OC for this emissions unit using the following equation:

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

EP No.	Emission Factor	Throughput
EP26, EP27 or EP28	0.1498 lb/ton, asphalt	Tons, coating asphalt and AC-20 asphalt

- e. the calculated monthly emission rate for PM10 for this emissions unit using the following equation:

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

EP No.	Emission Factor	Throughput
EP26, EP27 or EP28	0.0005791 lb/ton, coating asphalt	Tons, coating asphalt and AC-20 asphalt

- (2) The permittee shall maintain documentation of whether or not each asphalt coating material stored is a photochemically reactive material.
- (3) 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) The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any record showing the storage of photochemically reactive asphalt coating 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.
- (2) 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.



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. Emissions from the cyclone and mist eliminator controlling the tanks are vented to one of the facility coating asphalt heaters (B103, B104 or B105). Testing will be performed in the tank exhaust system PRIOR to discharge to the asphalt heater. Production lines No. 1 and No. 2 (P101 and P102) shall be in operation during the test period and the total combined throughput of coating and AC-20 asphalt (if stored at the time of the test) used to determine the emission rates in lb/ton of asphalt.
 - b. The emission testing shall be conducted to demonstrate compliance with the following limits:
 - i. the mass emission limitation of 0.0005791 lb PM10/ton;
 - ii. the mass emission limitation of 4.43 lbs OC/hr;
 - iii. the mass emission limitation of 0.21 lbs CO/hr; and
 - iv. 0% opacity when the emissions unit is operating.
 - 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. for CO - Method 10 of 40 CFR Part 60, Appendix A;
 - v. for compliance with the 0% opacity, 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 appropriate District Office or local air agency.

- 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 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):

a. Emission Limitations:

CertainTeed ID Emission Point	OC lbs/hr	OC TPY	PM10* lb/ton	PM10 TPY
EP26, EP27 or EP28*	4.43	14.98	0.0005791	0.05791

*T101, T102, T103 and T104 may be discharged to atmosphere through any one of the emission points at any one time.

Applicable Compliance Methods:

Compliance with the lbs/hr and lbs/ton emission limitations will be demonstrated by the emissions testing in accordance with the requirements in f)(1) above.

The ton/year limitations were established by multiplying the maximum tons of coating and AC-20 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 recordkeeping requirements, compliance with the limitations shall also be demonstrated.

b. Emission Limitation:

CertainTeed ID Emission Point	CO lbs/hr	CO TPY
EP26, EP27 or EP28*	0.21	0.73

*T101, T102, T103 and T104 may be discharged to atmosphere through any one of the emission points at any one time.

Applicable Compliance Methods:

Compliance with the lbs/hr and lbs/ton emission limitations will be demonstrated by the emissions testing in accordance with the requirements in f)(1) above.



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 recordkeeping requirements, compliance with the limitations shall also be demonstrated.

c. Emission Limitation:

CertainTeed ID for Emission Point	Opacity Requirement
EP26, EP27 or EP28*	0% opacity, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for clearing

*T101, T102, T103 and T104 may be discharged to atmosphere through any one of the emission points at any one time.

Applicable Compliance Method:

Compliance with the limit established by 40 CFR Part 60.472(c) shall be demonstrated in accordance with Method 9 of 40 CFR Part 60, Appendix A as stated in f)(1).

g) Miscellaneous Requirements

- (1) None.