Ohio Environmental Protection Agency
John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

11/16/2011

Certified Mail

Facility ID: 0322000017
Permit Number: P0108490
County: Erie

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

RE: DRAFT AIR POLLUTION TITLE V PERMIT
Permit Type: Initial

Dear Permit Holder:

A draft of the OAC Chapter 3745-77 Title V permit for the referenced facility has been issued. The purpose of this draft is to solicit public comments. A public notice will appear in the Ohio EPA Weekly Review and the local newspaper, Sandusky Register. A copy of the public notice, the Statement of Basis, and the draft permit are enclosed. 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. Comments will be accepted as a marked-up copy of the draft permit or in narrative format. Any comments must be sent to the following:

Andrew Hall
Permit Review/Development Section
Ohio EPA, DAPC
50 West Town Street, Suite 700
P.O. Box 1049
Columbus, Ohio 43216-1049

and

Ohio EPA DAPC, Northwest District Office
347 North Dunbridge Road
Bowling Green, OH 43402

Comments and/or a request for a public hearing will be accepted within 30 days of the date the notice is published in the newspaper. You will be notified in writing if a public hearing is scheduled. A decision on processing the Title V permit will be made after consideration of comments received and oral testimony if a public hearing is conducted. You will then be provided with a Preliminary Proposed Title V permit and another opportunity to comment prior to the 45-day Proposed Title V permit submittal to U.S. EPA Region 5. The permit will be issued final after U.S. EPA review is completed and no objections to the final issuance have been received. If you have any questions, please contact Ohio EPA DAPC, Northwest District Office at (419)352-8461.

Sincerely,

Michael W. Ahern

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

Cc: U.S. EPA Region 5 - *Via E-Mail Notification*
Ohio EPA-NWDO; Michigan

PUBLIC NOTICE
11/16/2011 Issuance of Draft Air Pollution Title V Permit

CertainTeed Corp.
11519 State Route 250N,
Milan, OH 44846
Erie County
FACILITY DESC.: Asphalt Shingle and Coating Materials Manufacturing
PERMIT #: P0108490
PERMIT TYPE: Initial
PERMIT DESC: Initial Title V operating permit for various emissions units at an asphalt felts and coatings facility.

The Director of the Ohio Environmental Protection Agency issued the draft permit above. The permit and complete instructions for requesting information or submitting comments may be obtained at: epa.ohio.gov/dapc/permit by entering the permit # or: Andrea Moore, Ohio EPA DAPC, Northwest District Office, 347 North Dunbridge Road, Bowling Green, OH 43402. Ph: (419)352-8461

Statement of Basis For Air Pollution Title V Permit

Facility ID:	0322000017
Facility Name:	CertainTeed Corp.
Facility Description:	Asphalt Felts and Coatings
Facility Address:	11519 State Route 250N, Milan, OH 44846
Permit #:	P0108490, Initial

This facility is subject to Title V because it is major for:

☐ Lead ☐ Sulfur Dioxide ☐ Carbon Monoxide ☒ Volatile Organic Compounds ☐ Nitrogen Oxides
☐ Particulate Matter ≤ 10 microns ☐ Single Hazardous Air Pollutant ☐ Combined Hazardous Air Pollutants
☐ Maximum Available Control Technology Standard(s)

A. Standard Terms and Conditions

Has each insignificant emissions unit been reviewed to confirm it meets the definition in OAC rule 3745-77-01 (U)?	Yes
Were there any common control issues associated with this facility? If yes, provide a summary of those issues and explain how the DAPC decided to resolve them.	No
Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the permit document that qualify as a minor permit modification per OAC rule 3745-77-08(C)(1)	N/A
Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the permit document that qualify as a significant permit modification per OAC rule 3745-77-08(C)(3)	N/A
Please identify the affected unit(s)and associated PTI, if applicable, along with a brief description of any changes to the permit document that qualify as a reopening per OAC rule 3745-77-08(D)	N/A
Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the	N/A

permit document resulting from a renewal per OAC rule 3745-77-08(E)	

B. Facility-Wide Terms and Conditions

Term and Condition (paragraph)	Basis		Comments
	SIP (3745-)	Other	
B.1		Y	Lists facility wide terms and conditions that are enforceable under state law only.
B.2	N	Y	OAC rule 3745-31-05(D) – Federally-enforceable operational restrictions.
B.3	N	Y	OAC rule 3745-31-05(D) – Federally-enforceable monitoring and/or record keeping requirements.
B.4	N	Y	OAC rule 3745-31-05(D) – Federally-enforceable reporting requirements.
B.5	N	Y	40 CFR Part 63 Subpart AAAAAAA – Specifies this facility is subject to this GACT.
B.6			Lists emissions unit that is subject to the permit-by-rule exemption (existing emissions unit).
B.7			Lists insignificant emissions units that are subject to one or more applicable requirements.
B.8			Lists insignificant emissions units that are “de minimis” or not subject to any applicable requirements.
B.9	N	Y	40 CFR Part 63 Subpart ZZZZ – Specifies this facility is subject to this GACT.

C. Emissions Unit Terms and Conditions

Key:
EU = emissions unit ID
ND = negative declaration (i.e., term that indicates that a particular rule(s) is (are) not applicable to a specific emissions unit)
OR = operational restriction
M = monitoring requirements
St = streamlining term used to replace a PTI monitoring, record keeping, or reporting requirement with an equivalent or more stringent requirement
ENF = did noncompliance issues drive the monitoring requirements?
R = record keeping requirements
Rp = reporting requirements
ET = emission testing requirements (not including compliance method terms)
Misc = miscellaneous requirements

EU(s)	Limitation	Basis		ND	OR	M	St	ENF	R	St	Rp	St	ET	Misc	Comments
		SIP (3745-)	Other												

P101 P102	Multiple visible emission limitations	N	Y	N	N	N	N	N	N	N	N	N	Y	N	M,R,Rp – parametric monitoring on the control equipment is sufficient to show ongoing compliance. Emission limitation established pursuant to this rule are as stringent or more stringent than the emission limitations specified pursuant to OAC rule 3745-17-07(A); or 40 CFR 60.472(a) and (c).
P101 P102	Multiple short-term emission limitations	N	Y	N	N	N	N	N	N	N	Y	N	Y	N	Other – OAC 3745-31-05 (A)(3) M, R, Rp – emissions limitations represent the PTE. Initial shall be determined through emission testing.
P101 P102 T105	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;	N	Y	N	Y	Y	N	Y	Y	N	Y	N	N	N	Other - OAC 3745-31-05 (D) OR – Federally enforceable restriction of asphalt usage ET – Initial compliance test on short term emission limitations and compliance with M, R, Rp, and OR is sufficient to show compliance with the 12-month rolling emission limitations.
P101 P102	20%opacity	17-07(A)	N	N	N	N	N	N	N	N	N	N	Y	N	M,R,Rp – parametric monitoring on the control equipment is sufficient to show ongoing compliance.

P103															
P101 P102 P103	None	17-11(B)	N	Y											ND – The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05 (A)(3)
P101 P102	None	18-06(E)	N	Y											ND – The emissions limitation specified by this rule is less stringent or as stringent than the emissions limitation established pursuant to OAC rule 3745-31-05 (A)(3)
P103	0.13 lb organic compounds (OC)/hour; 0.58 ton OC/year; 0.01 lb carbon monoxide (CO)/hour; 0.06 ton CO/year	N	Y	N	N	N	N	N	N	N	N	N	N	N	M, R, Rp, ET – Compliance through emission factors. Testing if necessary Other – OAC rule 3745-31-05 (A)(3)
P103	0.01 lb particulate matter 10 microns or less in size (PM10)/hour; 0.03 ton PM10/yr;	N	Y	N	N	N	N	N	N	N	N	N	N	N	M,R,Rp – parametric monitoring on the control equipment is sufficient to show ongoing compliance. ET- testing shall be conducted if required.
P104	PM10: 0.3182 lb/hr, 0.1286 lb/hr, 0.02353 lb/ton, 0.06186 lb/ton	N	Y	N	N	N	N	N	N	N	N	N	N	N	Other – OAC rule 3745-31-05(A)(3) M,R,Rp – parametric monitoring on the control equipment is sufficient to show ongoing compliance. ET- testing shall be conducted if required.
P104	PM10: 7.11 TPY	N	Y	N	N	N	N	N	N	N	N	N	N	N	Other – OAC rule 3745-31-05(A)(3) M,R,Rp – emissions limitations represent the PTE at 8760 hours per year. Provided compliance is shown with the short-term emission limitation, compliance with the long-term emission limitations shall also be demonstrated.

															ET- testing shall be conducted if required to show compliance with the short-term emission limitations.
P104	OC: 0.18 lb/hr 1.16 lbs/hr	N	Y	N	N	N	N	N	N	N	N	N	N	N	Other – OAC rule 3745-31-05(A)(3) M,R,Rp – emissions limitations represent the PTE. ET- testing shall be conducted if required to show compliance with the short-term emission limitations.
P104	5.39 tons per year OC	N	Y	N	N	N	N	N	N	N	N	N	N	N	Other – OAC rule 3745-31-05(A)(3) M,R,Rp – emissions limitations represent the PTE at 8760 hours per year. Provided compliance is shown with the short-term emission limitation, compliance with the long-term emission limitations shall also be demonstrated. ET- testing shall be conducted if required to show compliance with the short-term emission limitations.
P104	0% opacity	N	Y	N	N	N	N	N	N	N	N	N	N	N	Other – OAC rule 3745-31-05(D) ET- parametric monitoring on the mist eliminator is sufficient to show ongoing compliance. If required, compliance shall be demonstrated in accordance with Method 9 of 40 CFR Part 60, Appendix A.
P103 P104 P105 T105	None	17-07(A)	N	Y											ND – The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05 (A)(3)
P103 P104 P105 T105	None	17-11(B)	N	Y											ND – The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05 (A)(3)
P105	5.43 lbs OC/hr	N	Y	N	N	N	N	N	N	N	N	N	Y	N	Other – OAC rule 3745-31-05(A)(3) M,R,Rp – initial testing sufficient to show compliance.

P105	PM10: 0.4863 lb/hr 0.0932 lb/hr 0.3192 lb/hr 0.0403 lb/hr	N	Y	N	N	N	N	N	N	N	N	N	Y	N	Other – OAC rule 3745-31-05(A)(3) M,R,Rp – initial testing and parametric monitoring on the control equipment is sufficient to show ongoing compliance.
P105	OC: 19.69 TPY PM10: 9.24 TPY	N	Y	N	N	N	N	N	N	N	N	N	N	N	Other – OAC rule 3745-31-05(A)(3) M,R,Rp – emissions limitations represent the PTE at 8760 hours per year. Provided compliance is shown with the short-term emission limitation, compliance with the long-term emission limitations shall also be demonstrated. ET- testing shall be conducted if required to show compliance with the short-term emission limitations.
P105	0% opacity	N	Y	N	N	N	N	N	N	N	N	N	N	N	Other – OAC rule 3745-31-05(A)(3) ET- parametric monitoring on the mist eliminator is sufficient to show ongoing compliance. If required, compliance shall be demonstrated in accordance with Method 9 of 40 CFR Part 60, Appendix A.
T105	OC: 8.33 lbs/hour and 9.18 lbs/hr	N	Y	N	N	N	N	N	N	N	N	N	Y	N	Other – OAC rule 3745-31-05(A)(3) M,R,Rp – Compliance shall be demonstrated based on emission testing.
T105	PM10: 0.0680 lb/ton	N	Y	N	N	Y	N	N	Y	N	Y	N	Y	N	Other – OAC rule 3745-31-05(A)(3)
T105	CO: 6.81 lbs/hr and 6.88 lbs/hr	N	Y	N	N	N	N	N	N	N	N	N	N	N	Other – OAC rule 3745-31-05(A)(3) M,R,Rp – Compliance shall be demonstrated based on emission factors based on material usage. If required, compliance shall be demonstrated by testing in accordance with Method 10 of 40 CFR Part 60, Appendix A.
T105	0% opacity, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for cleaning	N	Y	N	N	N	N	N	N	N	N	N	N	N	Other – 40 CFR Part 60.472(c) (Subpart UU) M,R,Rp,ET- parametric monitoring on the mist eliminator is sufficient to show ongoing compliance. If required, compliance shall be demonstrated in accordance with Method 9 of 40 CFR Part 60, Appendix A.
B104 B105	NOx: 1.37 lbs/hour; 6.01 TPY CO: 1.15 lbs/hr;	N	Y	N	Y	Y	N	N	Y	N	Y	N	N	N	Other – OAC rule 3745-31-05(A)(3) O – shall burn only natural gas ET: compliance shall be demonstrated based on AP42 emission factors. TPY is based on 8760 hrs/yr; therefore provided compliance is

	5.05 TPY OC: 0.15 lb/hr; 0.66 TPY PM10: 0.10 lb/hr; 0.46 TPY														shown with the hourly, compliance with the TPY shall also be demonstrated.
B104 B105	NONE	17-10(C)(2) 14-07(A)	N	Y											ND – The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05 (A)(3)
T101 T102 T103 T104	OC: 29.19 lbs/hr, CO: 2.17 lbs/hr, PM10: 0.0237 lb/ton	N	Y	N	N	N	N	N	N	N	N	N	Y	N	Other – OAC rule 3745-31-05(A)(3) M,R,Rp – Compliance shall be demonstrated based on emission testing.
T101 T102 T103 T104	OC: 80.53 TPY PM10: 2.48 TPY	N	Y	N	N	Y	N	N	Y	N	Y	N	N	N	Other – OAC rule 3745-31-05(A)(3) ET: compliance shall be demonstrated based on emission testing of the short-term emission limitations and throughput records.
T101 T102 T103 T104	CO: 5.99 TPY	N	Y	N	N	N	N	N	N	N	N	N	N	N	Other – OAC rule 3745-31-05(A)(3) M,R,Rp,ET – TPY is based on 8760 hrs/yr; therefore provided compliance is shown with the hourly, compliance with the TPY shall also be demonstrated.
T101 T102 T103 T104	0% opacity, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for cleaning	N	Y	N	N	N	N	N	N	N	N	N	Y	N	Other – OAC rule 3745-31-05(A)(3) M,R,Rp – emissions from the cyclone and mist eliminator controlling the tanks are vented to one of the asphalt heaters (B101, B102 and B103). Emission testing will be conducted prior to the discharge to the asphalt heater.
P101 P102 P104 P105	PM10 emissions														CAM was evaluated for these emissions. For PM10 emissions, it was determined these emissions units are 'other PSEU' and as such must comply with CAM upon renewal of the Title V permit, per 40 CFR 64.5(b). There is no control for the other criteria pollutants emitted from these emissions units.
P101 P102 T105	CO, OC and SO2 emissions														The criteria pollutants are uncontrolled from these emissions, therefore CAM is not applicable.
P103	PM10 emissions														CAM was evaluated for these emissions. It was determined that the pre-control emissions are less than the major source threshold (100

															tpy); and therefore is not subject to CAM requirements per 40 CFR 64.2
P103	CO and OC emissions														These criteria pollutants are uncontrolled from these emissions, therefore CAM is not applicable.
P104 P105	OC emissions														These criteria pollutants are uncontrolled from these emissions, therefore CAM is not applicable.
B101 B102															The criteria pollutants are uncontrolled from these emissions, therefore CAM is not applicable.
T102 T102 T103 T104	PM10 emissions														CAM was evaluated for these emissions. It was determined that the pre-control emissions are less than the major source threshold (100 tpy); and therefore is not subject to CAM requirements per 40 CFR 64.2
T102 T102 T103 T104	CO and OC emissions														These criteria pollutants are uncontrolled from these emissions, therefore CAM is not applicable.

Ohio | Environmental Protection Agency

DRAFT

Division of Air Pollution Control
Title V Permit
for
CertainTeed Corp.

Facility ID:	0322000017
Permit Number:	P0108490
Permit Type:	Initial
Issued:	11/16/2011
Effective:	To be entered upon final issuance
Expiration:	To be entered upon final issuance

Ohio Environmental Protection Agency

Division of Air Pollution Control
Title V Permit
for
CertainTeed Corp.

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Authorization

Facility ID: 0322000017
Facility Description: Asphalt Felts and Coatings
Application Number(s): A0041951
Permit Number: P0108490
Permit Description: Initial Title V operating permit for various emissions units at an asphalt felts and coatings facility.
Permit Type: Initial
Issue Date: 11/16/2011
Effective Date: To be entered upon final issuance
Expiration Date: To be entered upon final issuance
Superseded Permit Number:

This document constitutes issuance of an OAC Chapter 3745-77 Title V permit to:

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

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 Title V permit pursuant to Chapter 3745-77 of the Ohio Administrative Code. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above. You will be sent a notice approximately 18 months prior to the expiration date regarding the renewal of this permit. If you do not receive a notice, please contact the Ohio EPA DAPC, Northwest District Office. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-08(E) and in accordance with the terms of this permit beyond the expiration date, if a timely renewal application is submitted. A renewal application will be considered timely if it is submitted no earlier than 18 months (540 days) and no later than 6 months (180 days) prior to the expiration date.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Scott J. Nally
Director

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. 24., Reporting Requirements Related to Monitoring and Record Keeping Requirements of State-Only Enforceable Permit Terms and Conditions

(2) Standard Term and Condition A. 25., Records Retention Requirements for State-Only Enforceable Permit Terms and Conditions

(3) Standard Term and Condition A. 27., Scheduled Maintenance/Malfunction Reporting

(4) Standard Term and Condition A. 29., Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations

(Authority for term: ORC 3704.036(A))

2. 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 (i.e., in section C. Emissions Unit Terms and Conditions of this Title V permit), 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.

(Authority for term: OAC rule 3745-77-07(A)(3)(b)(i))

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 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.

(Authority for term: OAC rule 3745-77-07(A)(3)(b)(ii))

c) The permittee shall submit required reports in the following manner:

(1) All reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations caused by malfunctions shall be submitted in the following manner:

Any malfunction, as defined in OAC rule 3745-15-06(B)(1), shall be promptly reported to the Ohio EPA in accordance with OAC rule 3745-15-06. In addition, to fulfill the OAC rule 3745-77-07(A)(3)(c) deviation reporting requirements for malfunctions, written reports that identify each malfunction that occurred during each calendar quarter (including each malfunction reported only verbally in accordance with OAC rule 3745-15-06) shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year in accordance with Standard Term and Condition A.2.c)(2) below; and each report shall cover the previous calendar quarter. An exceedance of the visible emission limitations specified in OAC rule 3745-17-07(A)(1) that is caused by a malfunction is not a violation and does not need to be reported as a deviation if the owner or operator of the affected air contaminant source or air pollution control equipment complies with the requirements of OAC rule 3745-17-07(A)(3)(c).

In accordance with OAC rule 3745-15-06, a malfunction reportable under OAC rule 3745-15-06(B) is a deviation of the federally enforceable permit requirements. Even though verbal notifications and written reports are required for malfunctions pursuant to OAC rule 3745-15-06, the written reports required pursuant to this term must be submitted quarterly to satisfy the prompt reporting provision of OAC rule 3745-77-07(A)(3)(c).

In identifying each deviation caused by a malfunction, the permittee shall specify the emission limitation(s) (or control requirement(s)) for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. For a specific malfunction, if this information has been provided in a written report that was submitted in accordance with OAC rule 3745-15-06, the permittee may simply reference that written report to identify the deviation. Nevertheless, all malfunctions, including those reported only verbally in accordance with OAC rule 3745-15-06, must be reported in writing on a quarterly basis.

Any scheduled maintenance, as referenced in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described above for malfunctions.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

(2) Except as may otherwise be provided in the terms and conditions for a specific emissions unit (i.e., in section C. Emissions Unit Terms and Conditions of this Title V permit or, in some cases, in section B. Facility-Wide Terms and Conditions of this Title V permit), all reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations of the emission limitations, operational restrictions, and control device operating parameter limitations shall be submitted in the following manner:

Written reports of (a) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures taken, shall be promptly made to the appropriate Ohio EPA District Office or

local air agency. Except as provided below, the written reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

In identifying each deviation, the permittee shall specify the emission limitation(s), operational restriction(s), and/or control device operating parameter limitation(s) for which the deviation occurred, describe each deviation, and provide the estimated magnitude and duration of each deviation.

These written deviation reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c) pertaining to the submission of monitoring reports every six months and to the prompt reporting of all deviations. Full compliance with OAC rule 3745-77-07(A)(3)(c) requires reporting of all other deviations of the federally enforceable requirements specified in the permit as required by such rule.

If an emissions unit has a deviation reporting requirement for a specific emission limitation, operational restriction, or control device operating parameter limitation that is not on a quarterly basis (e.g., within 30 days following the end of the calendar month, or within 30 or 45 days after the exceedance occurs), that deviation reporting requirement satisfies the reporting requirements specified in this Standard Term and Condition for that specific emission limitation, operational restriction, or control device parameter limitation. Following the provisions of that non-quarterly deviation reporting requirement will also satisfy (for the deviations so reported) the requirements of OAC rule 3745-77-07(A)(3)(c) pertaining to the submission of monitoring reports every six months and to the prompt reporting of all deviations, and additional quarterly deviation reports for that specific emission limitation, operational restriction, or control device parameter limitation are not required pursuant to this Standard Term and Condition.

See A.29 below if no deviations occurred during the quarter.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

(3) All reporting required in accordance with the OAC rule 3745-77-07(A)(3)(c) for other deviations of the federally enforceable permit requirements which are not reported in accordance with Standard Term and Condition A.2)c)(2) above shall be submitted in the following manner:

Unless otherwise specified by rule, written reports that identify deviations of the following federally enforceable requirements contained in this permit; Standard Terms and Conditions: A.3, A.4, A.5, A.7.e), A.8, A.13, A.15, A.19, A.20, A.21, and A.23 of this Title V permit, as well as any deviations from the requirements in section C. Emissions Unit Terms and Conditions of this Title V permit, and any monitoring, record keeping, and reporting requirements, which are not reported in accordance with Standard Term and Condition A.2.c)(2) above shall be submitted (i.e., postmarked) to the appropriate Ohio EPA District Office or local air agency by January 31 and July 31 of each year; and each report shall cover the previous six calendar months. Unless otherwise specified by rule, all other deviations from federally enforceable requirements identified in this permit shall be submitted annually as part of the annual compliance certification, including deviations of federally enforceable requirements not specifically addressed by permit or rule for the insignificant activities or emissions levels (IEU) identified in section B. Facility-Wide Terms and Conditions of this Title V permit. Annual reporting of deviations is deemed

adequate to meet the deviation reporting requirements for IEUs unless otherwise specified by permit or rule.

In identifying each deviation, the permittee shall specify the federally enforceable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation.

These semi-annual and annual written reports shall satisfy the reporting requirements of OAC rule 3745-77-07(A)(3)(c) for any deviations from the federally enforceable requirements contained in this permit that are not reported in accordance with Standard Term and Condition A.2.c)(2) above.

If no such deviations occurred during a six-month period, the permittee shall submit a semi-annual report which states that no such deviations occurred during that period.

(Authority for term: OAC rules 3745-77-07(A)(3)(c)(i) and (ii) and OAC rule 3745-77-07(A)(13)(b))

(4) 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 (including any written malfunction reports required by OAC rule 3745-15-06 that are referenced in the deviation reports) are true, accurate, and complete."

(Authority for term: OAC rule 3745-77-07(A)(3)(c)(iv))

(5) Reports of any required monitoring and/or record keeping information shall be submitted to Ohio EPA DAPC, Northwest District Office.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

3. Scheduled Maintenance

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. Except as provided in OAC rule 3745-15-06(A)(3), any scheduled maintenance necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s). Any scheduled maintenance, as defined in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described for malfunctions in Standard Term and Condition A.2.c)(1) above.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

4. Risk Management Plans

If applicable, the permittee shall 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"); and, pursuant to 40 C.F.R. 68.215(a), the permittee shall submit either of the following:

a) a compliance plan for meeting the requirements of 40 C.F.R. Part 68 by the date specified in 40 C.F.R. 68.10(a) and OAC 3745-104-05(A); or

b) as part of the compliance certification submitted under 40 C.F.R. 70.6(c)(5), a certification statement that the source is in compliance with all requirements of 40 C.F.R. Part 68 and OAC Chapter 3745-104, including the registration and submission of the risk management plan.

(Authority for term: OAC rule 3745-77-07(A)(4))

5. 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.

(Authority for term: OAC rule 3745-77-07(A)(5))

6. Severability Clause

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

(Authority for term: OAC rule 3745-77-07(A)(6))

7. 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 reissuance, or modification, or for denial of a permit renewal application.

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, reopened, revoked, or revoked and reissued, for cause, in accordance with Standard Term and Condition A.11 below. 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, reopening 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.

f) Except as otherwise indicated below, this Title V permit, or permit modification, is effective for five years from the original effective date specified in the permit. In the event that this facility becomes eligible for non-title V permits, this permit shall cease to be enforceable when:

(1) the permittee submits an approved facility-wide potential to emit analysis supporting a claim that the facility no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on the permanent shutdown and removal of one or more emissions units identified in this permit; or

(2) the permittee no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on obtaining restrictions on the facility-wide potential(s) to emit that are federally enforceable or legally and practically enforceable ; or

(3) a combination of (1) and (2) above.

The permittee shall continue to comply with all applicable OAC Chapter 3745-31 requirements for all regulated air contaminent sources once this permit ceases to be enforceable. The permittee shall comply with any residual requirements, such as quarterly deviation reports, semi-annual deviation reports, and annual compliance certifications covering the period during which this Title V permit was enforceable. All records relating to this permit must be maintained in accordance with law.

(Authority for term: OAC rule 3745-77-01(W), OAC rule 3745-77-07(A)(3)(b)(ii), OAC rule 3745-77(A)(7))

8. 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.

(Authority for term: OAC rule 3745-77-07(A)(8))

9. Marketable Permit Programs

No revision of this permit is required under any approved economic incentive, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in this permit.

(Authority for term: OAC rule 3745-77-07(A)(9))

10. Reasonably Anticipated Operating Scenarios

The permittee is hereby authorized to make changes among operating scenarios authorized in this permit without notice to the Ohio EPA, but, contemporaneous with making a change from one operating scenario to another, the permittee must record in a log at the permitted facility the scenario under which the permittee is operating. The permit shield provided in these standard terms and conditions shall apply to all operating scenarios authorized in this permit.

(Authority for term: OAC rule 3745-77-07(A)(10))

11. Reopening for Cause

This Title V permit will be reopened prior to its expiration date under the following conditions:

a) Additional applicable requirements under the Act become applicable to one or more emissions units covered by this permit, and this permit has a remaining term of three or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to paragraph (E)(1) of OAC rule 3745-77-08.

b) This permit is issued to an affected source under the acid rain program and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit, and shall not require a reopening of this permit.

c) The Director of the Ohio EPA or the Administrator of the U.S. EPA determines that the federally applicable requirements in this permit are based on a material mistake, or that inaccurate statements were made in establishing the emissions standards or other terms and conditions of this permit related to such federally applicable requirements.

d) The Administrator of the U.S. EPA or the Director of the Ohio EPA determines that this permit must be revised or revoked to assure compliance with the applicable requirements.

(Authority for term: OAC rules 3745-77-07(A)(12) and 3745-77-08(D))

12. Federal and State Enforceability

Only those terms and conditions designated in this permit as federally enforceable, that 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, the State, and citizens under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

(Authority for term: OAC rule 3745-77-07(B))

13. Compliance Requirements

a) Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.

b) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:

(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 paragraph (E) of OAC rule 3745-77-03.

(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.

c) The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:

(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.

d) Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) and the Administrator of the U.S. EPA in the following manner and with the following content:

(1) Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted (i.e., postmarked) on or before April 30th of each year during the permit term.

(2) Compliance certifications shall include the following:

a. An identification of each term or condition of this permit that is the basis of the certification.

b. The permittee's current compliance status.

c. Whether compliance was continuous or intermittent.

d. The method(s) used for determining the compliance status of the source currently and over the required reporting period.

e. Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.

(3) Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.

(Authority for term: OAC rules 3745-77-07(C)(1),(2),(4) and (5) and ORC section 3704.03(L))

14. Permit Shield

a) Compliance with the terms and conditions of this permit (including terms and conditions established for alternate operating scenarios, emissions trading, and emissions averaging, but excluding terms and conditions for which the permit shield is expressly prohibited under OAC rule 3745-77-07) shall be deemed compliance with the applicable requirements identified and addressed in this permit as of the date of permit issuance.

b) This permit shield provision shall apply to any requirement identified in this permit pursuant to OAC rule 3745-77-07(F)(2), as a requirement that does not apply to the source or to one or more emissions units within the source.

(Authority for term: OAC rule 3745-77-07(F))

15. Operational Flexibility

The permittee is authorized to make the changes identified in OAC rule 3745-77-07(H)(1)(a) to (H)(1)(c) within the permitted stationary source without obtaining a permit revision, if such change is not a modification under any provision of Title I of the Act [as defined in OAC rule 3745-77-01(JJ)], and does not result in an exceedance of the emissions allowed under this permit (whether expressed therein as a rate of emissions or in terms of total emissions), and the permittee provides the Administrator of the U.S. EPA and the appropriate Ohio EPA District Office or local air agency with written notification within a minimum of seven days in advance of the proposed changes, unless the change is associated with, or in response to, emergency conditions. If less than seven days notice is provided because of a need to respond more quickly to such emergency conditions, the permittee shall provide notice to the Administrator of the U.S. EPA and the appropriate District Office of the Ohio EPA or local air agency as soon as possible after learning of the need to make the change. The notification shall contain the items required under OAC rule 3745-77-07(H)(2)(d).

(Authority for term: OAC rules 3745-77-07(H)(1) and (2))

16. Emergencies

The permittee shall have an affirmative defense of emergency to an action brought for noncompliance with technology-based emission limitations if the conditions of OAC rule 3745-77-07(G)(3) are met. This emergency defense provision is in addition to any emergency or upset provision contained in any applicable requirement.

(Authority for term: OAC rule 3745-77-07(G))

17. Off-Permit Changes

The owner or operator of a Title V source may make any change in its operations or emissions at the source that is not specifically addressed or prohibited in the Title V permit, without obtaining an amendment or modification of the permit, provided that the following conditions are met:

a) The change does not result in conditions that violate any applicable requirements or that violate any existing federally enforceable permit term or condition.

b) The permittee provides contemporaneous written notice of the change to the Director and the Administrator of the U.S. EPA, except that no such notice shall be required for changes that qualify as insignificant emissions levels or activities as defined in OAC rule 3745-77-01(U). Such written notice shall describe each such change, the date of such change, any change in emissions or pollutants emitted, and any federally applicable requirement that would apply as a result of the change.

c) The change shall not qualify for the permit shield under OAC rule 3745-77-07(F).

d) The permittee shall keep a record describing all changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes.

e) The change is not subject to any applicable requirement under Title IV of the Act or is not a modification under any provision of Title I of the Act.

Paragraph (I) of rule 3745-77-07 of the Administrative Code applies only to modification or amendment of the permittee's Title V permit. The change made may require a permit-to-install under Chapter 3745-31 of the Administrative Code if the change constitutes a modification as defined in that Chapter. Nothing in paragraph (I) of rule 3745-77-07 of the Administrative Code shall affect any applicable obligation under Chapter 3745-31 of the Administrative Code.

(Authority for term: OAC rule 3745-77-07(I))

18. Compliance Method Requirements

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the permittee, including but not limited to, any challenge to the Credible Evidence Rule (see 62 Fed. Reg. 8314, Feb. 24, 1997), in the context of any future proceeding.

(This term is provided for informational purposes only.)

19. Insignificant Activities or Emissions Levels

Each IEU that has one or more applicable requirements shall comply with those applicable requirements.

(Authority for term: OAC rule 3745-77-07(A)(1))

20. Permit to Install Requirement

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

(Authority for term: OAC rule 3745-77-07(A)(1))

21. 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.

(Authority for term: OAC rule 3745-77-07(A)(1))

22. Permanent Shutdown of an Emissions Unit

The permittee may notify Ohio EPA of any emissions unit that is permanently shut down by submitting a certification from the responsible 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 responsible official that the emissions unit was permanently shut down.

After the date on which an emissions unit is permanently shut down (i.e., that 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 and therefore ceases to meet the definition of an "emissions unit" as defined in OAC rule 3745-77-01(O)), rendering existing permit terms and conditions irrelevant, the permittee shall not be required, after the date of the certification and submission to Ohio EPA, to meet any Title V permit requirements applicable to that emissions unit, except for any residual requirements, such as the quarterly deviation reports, semi-annual deviation reports and annual compliance certification covering the period during which the emissions unit last operated. All records relating to the shutdown emissions unit, generated while the emissions unit was in operation, must be maintained in accordance with law.

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

(Authority for term: OAC rule 3745-77-01)

23. Title VI Provisions

If applicable, the permittee shall comply with the standards for recycling and reducing emissions of ozone depleting substances pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners in Subpart B of 40 CFR Part 82:

a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices specified in 40 CFR 82.156.

b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment specified in 40 CFR 82.158.

c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

(Authority for term: OAC rule 3745-77-01(H)(11))

24. Reporting Requirements Related to Monitoring and Record Keeping Requirements Under State Law Only

The permittee shall submit required reports in the following manner:

a) Reports of any required monitoring and/or record keeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.

b) Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (i) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and record keeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. In identifying each deviation, the permittee shall specify the applicable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. 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.)

25. Records Retention Requirements Under State Law Only

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.

26. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

(Authority for term: OAC rule 3745-77-07(C))

27. Scheduled Maintenance/Malfunction Reporting

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

28. Permit Transfers

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

(Authority for term: OAC rule 3745-77-01(C))

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

If no emission limitation (or control requirement), operational restriction and/or control device parameter limitation 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) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

The permittee is not required to submit a quarterly report which states that no deviations occurred during that quarter for the following situations:

a) where an emissions unit has deviation reporting requirements for a specific emission limitation, operational restriction, or control device parameter limitation that override the deviation reporting requirements specified in Standard Term and Condition A.2.c)(2); or

b) where an uncontrolled emissions unit has no monitoring, record keeping, or reporting requirements and the emissions unit's applicable emission limitations are established at the potentials to emit; or

c) where the company's responsible official has certified that an emissions unit has been permanently shut down.

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. Operational Restrictions

   a) PTI 03-17171 (issued April 27, 2011) 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 restrict emissions of volatile organic compounds. The federally enforceable restrictions are being established for purposes of avoiding "Prevention of Significant Deterioration" (PSD) applicability.

      (1) Coating asphalt usage at the facility shall not 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:

         (a) all materials used by the asphalt shingle production lines at the facility (emissions units P101 and P102); and

         (b) storage tank operations (emissions units; T101, T102, T103, T104, and T105).

      (2) Based on the asphalt coating usage restriction, PTI 03-17171 establishes the following federally enforceable emission limitations:

         (a) Combined emissions from emissions units P101, P102, T101, T102, T103, T104, and T105 shall not exceed the following:

            (i) 142.17 tons OC per rolling, 12-month period;

            (ii) 66.73 tons of emissions of particulate matter 10 microns or less in size (PM10)* per rolling, 12-month period;

            (iii) 37.49 tons carbon monoxide (CO)* per rolling, 12-month period; and

            (iv) 5.20 tons sulfur dioxide (SO2)* per rolling, 12-month period (it should be noted that SO2 is not emitted from storage tank operations).

         *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.

      (3) To ensure enforceability during the first 12 calendar months of operation under the provisions of PTI 03-17171 (issued April 27, 2011), the coating asphalt usage at the facility shall not exceed the usage levels specified in the following table:

MONTH(s)	MAXIMUM ALLOWABLE CUMULATIVE 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 PTI 03-17171 (issued April 27, 2011), compliance with the coating asphalt usage limitation shall be based upon a rolling, 12-month summation of the monthly usage rates.

[Authority for term: OAC rule 3745-77-07(A)(1); PTI 03-17171]

3. Monitoring and/or Recordkeeping Requirements

a) 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 PTI 03-17171 (issued April 27, 2011), 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 under the provisions of PTI 03-17171 (issued April 27, 2011), the rolling, 12-month summation of the coating asphalt usage in emissions units P101 and P102 combined, in tons;

b) The permittee shall maintain monthly records of the following information to demonstrate compliance with combined emission limitations contained in B.2. 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.

(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 PTI 03-17171 (issued April 27, 2011), 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 under the provisions of PTI 03-17171 (issued April 27, 2011), 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.

[Authority for term: OAC rule 3745-77-07(C)(1); PTI 03-17171]

4. Reporting Requirements

a) 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 PTI 03-17171 (issued April 27, 2011), 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) 142.17 tons OC/rolling, 12-month period;

(b) 66.73 tons PM10/rolling, 12-month period;

(c) 37.49 tons CO/rolling, 12-month period; and

(d) 5.20 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).

[Authority for term: OAC rule 3745-77-07(C)(1); PTI 03-17171]

5. 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.

[Authority for term: 40 CFR Part 63 Subpart AAAAAAA]

6. The following emissions unit located at this facility is subject to all applicable requirements as outlined in OAC rule 3745-31-03(A)(4)(b):

EU ID	Operations, Property and/or Equipment Description
P189	220 HP Emergency Fire Pump Engine (B201)

[Authority for term: OAC rule 3745-77-07(A)(13)]

7. The following insignificant emissions units at this facility must comply with all applicable State and federal regulations, as well as any emissions limitations and/or control requirements contained within the identified permit-to-install for the emissions unit. The insignificant emissions units listed below are subject to one or more applicable requirement contained in a permit-to-install; or in the SIP-approved versions of OAC Chapters 3745-17, 3745-18, and 3745-21:

EU ID	Operations, Property and/or Equipment Description
B103	No. 1 coating asphalt heater (6.2 MMBtu/hr)
B107	Line No. 1 Hot Oil Heater (4.5 MMBtu/hr)
B108	Modified room Hot Oil Heater (5.26 MMBtu/hr)
B109	Line No. 2 Hot Oil Heater (5.26 MMBtu/hr)
B111	Dry End Make-up Air Unit Heater (5.0 MMBtu/hr)
B112	Looper Make-up Air unit Heater (5.0 MMBtu/hr)
B113	Front end Make-up Air Unit Heater (5.0 MMBtu/hr)
B117	Off-line Laminator room Space Heater #1 (0.40 MMBtu/hr)
B118	Off-line Laminator room Space Heater #2 (0.40 MMBtu/hr)
B119	Off-line Laminator room Space Heater #3 (0.40 MMBtu/hr)
B120	Off-line Laminator room Space Heater #4 (0.40 MMBtu/hr)
B121	Package Make-up air Unit Line 1 & 2 (7.50 MMBtu/hr)
B122	Off-line Laminator Wrapper Curl Heater (0.16 MMBtu/hr)
B123	Line No 1 Wrapper Curl Heaters (2) (0.16 MMBtu/hr)
B124	Line No 2 Wrapper Curl Heaters (2) (0.03 MMBtu/hr)
B125	Shrink Wrap Machine
B126	Vertical Asphalt Heater (4.5 MMBtu/hr)
B127	Boiler No. 4 (9.42 MMBtu/hr)
B128	Boiler No. 5 (9.42 MMBtu/hr)
B129	Misc. Heaters, Miscellaneous Heaters, Combined Firing Rate Less Than 2 MMBtu/hr

[Authority for term: OAC rule 3745-77-07(A)(13)]

8. The Ohio EPA has determined that this facility is subject to the requirements of 40 CFR Part 63, Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (Area Source RICE MACT). Although Ohio EPA has determined that this area source MACT (also known as the GACT) applies, at this time Ohio EPA does not have the authority to enforce this standard. Instead, U.S. EPA has the authority to enforce this standard. Please be advised, that all requirements associated with this rule are in effect and shall be enforced by U.S. EPA. For more information on the area source rules, please refer to the follow U.S. EPA website: http://www.epa.gov/ttn/atw/area/arearules.html.

[Authority for term: 40 CFR Part 63 Subpart ZZZZ]

C. Emissions Unit Terms and Conditions

1. **P101, Line No. 1 Process Units**

Operations, Property and/or Equipment Description:

asphalt shingle process line no. 1

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)(4).

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) as effective 11/30/01 (PTI 03-17171 issued April 27, 2011)	Control measures – see b)(2)b. Short-term emission limitations – see b)(2)b. Visible emission restrictions – see b)(2)c. See b)(2)a. and b)(2)i.
b.	OAC rule 3745-31-05(D) (PTI 03-17171 issued April 27, 2011)	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
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 3745-18-06(E)	See b)(2)h.

	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)(4).
h.	OAC rule 3745-31-05(A)(3) as effective 12/01/06 (PTI 03-17171 issued April 27, 2011)	See b)(2)j.

(2) Additional Terms and Conditions

a. Emissions unit P101 is a complex asphalt shingle manufacturing operation consisting of numerous pieces of equipment, several control devices, and multiple egress points (i.e. stacks). Twenty-one specific pieces of equipment from the line have been identified as operations that emit air contaminants. Seventeen of the twenty-one 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); and three separate baghouses (CD04, CD05 and CD06). Controlled and uncontrolled emissions are emitted from the manufacturing line by way of ten 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		
*Line #2 Vertical Mixer	EQ116		
Line #1 Backing Application	EQ105B	EP04	CD04
Line #1 Backing Reclaim System	EQ107		
Line #1 Granule Shelby	EQ108		
Line #1 Backing Use Bin	EQ106	EP04 (for belt conveying)	CD04 (for belt conveying)
		EP36 (for pneumatic conveying)	CD05 (for pneumatic conveying)
*Line #2 Surfacing - Backing Application	EQ117B	EP08	CD06
*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 #1 Cooling Section	EQ110	EP05/EP06/EP07	Uncontrolled
Line #1 Tempering Section	EQ163	EP34	Uncontrolled
Line #1 Overlay Applicator	EQ111	EP38	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 #2 (emissions unit P102).

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 associated emission 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
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
EQ117A	Line #2 Surfacing – Blender Section
EQ156	Line #2 Laminant/Sealant Concentrate Mixer
EQ157	Line #2 Modified Sealant Mixer
EQ178	Line #2 Coater

(b) a Flat-Bed HEAF (CD03) resulting in emissions discharged which do not exceed 0.0571 lb PM10/ton of coating asphalt used, for the following equipment in emissions unit P101 and P102:

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

(c) a baghouse (CD04) resulting in emissions discharged which do not exceed 0.08965 lb PM10/ton of coating asphalt used, for the following equipment:

CertainTeed ID for Source Equipment	Source Equipment
EQ105B	Line #1 Surfacing - Backing Application
EQ106	Line #1 Backing Use Bin (during belt conveying of backing)
EQ107	Line #1 Backing Reclaim System
EQ108	Line #1 Granule Shelby

baghouse (CD05) resulting in emissions discharged which do not exceed 0.015 grains PM10 per dscf for control of Line #1 Backing Use Bin (EQ106) when backing is pneumatically conveyed.

(d) a baghouse (CD06) resulting in emissions discharged which does not exceed 0.07468 lb PM10/ton of coating asphalt used for the following equipment in emissions units P101 and P102:

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

v. The following table presents emission limitations for this emissions unit and are summarized as follows:

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	
EP01/EP02*** (T105)		0.00316		
EP03**	0.64	0.0571	0.57	0
EP04	0.75	0.08965	1.24	0.24
EP05/EP06/EP07	1.75	0.3396	1.04	0.20
EP08**	2.84	0.07468	0.68	0.13
EP34	0.40	0.08879	0	0
EP36	0	0.05143 (lb/hr)	0	0
EP38	0.23	0.755	0.20	0.03

*All emissions of particulate matter are considered to be PM10.
** Combined limit for P101, P102, and T105.
*** PM10 units for T105 are lbs/ton, saturant (or AC-20)

c. 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	20% opacity when the coater is operating, otherwise 0% opacity	40 CFR Part 60.472(a) and (c)
EP03	0% opacity	OAC rule 3745-31-05(A)(3)
EP04	20% opacity, as a six-minute average, except as provided by rule	OAC rule 3745-17-07(A)
EP05/EP06 /EP07	20% opacity, as a six-minute average, except as provided by rule	OAC rule 3745-17-07(A)
EP08	20% opacity, as a six-minute average, except as provided by rule	OAC rule 3745-17-07(A)
EP34	20% opacity, as a six-minute average, except as provided by rule	OAC rule 3745-17-07(A)
EP36	10% opacity	OAC rule 3745-17-07(A)
EP38	20% opacity, as a six-minute average, except as provided by rule	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
EQ102	Line #1 coater
EQ178	Line #2 coater
T105	Saturant Asphalt Storage Tank
T106	Overlay asphalt storage tank
T107	Line #1 sealant day tank
T108	Line #1 sealant use tank

e. The emission limitation specified by this applicable rule for the Line #1 coater (0.08 lb particulate matter (PM)/ton 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 emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

h. The potential to emit for SO2 from this emissions unit is less than the emission limitation established pursuant to this rule. The potential to emit for SO2 is 2.01 lbs per hour and is the cumulative total of the SO2 limitations contained in b)(2)b.v.

i. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC rule 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to ORC changes effective August 3, 2006 (S.B. 265 changes), such that BAT is no longer required by State regulations for NAAQS pollutants less than ten tons per year. However, that rule revision has not yet been approved by U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-31-05, the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. Once U.S. EPA approves the December 1, 2006 version of 3745-31-05, then the requirements of OAC rule 3745-31-05(A)(3), as effective 11/30/01 for SO2 will no longer apply. The requirements of OAC rule 3745-31-05(A)(3), as effective 11/30/01 will continue to apply for all other pollutant emissions in this permit.

j. This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan.

The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3), as effective 12-01-06, do not apply to the SO2 emissions from this air contaminant source since the uncontrolled potential to emit for SO2emissions is less than ten tons per year [see b)(2)h.]

c) Operational Restrictions

(1) None.

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, in tons;

c. asphalt applied at the Overlay Applicator, in tons;

d. saturant asphalt usage, in tons;

e. plasticizer usage, in tons;

f. Line No. 2 paint usage, in gallons;

g. AC-20 Asphalt usage, in tons;

h. hours of operation of CD05 and CD07;

i. during the first 12 calendar months of operation under the provisions of PTI 03-17171 (issued April 27, 2011), 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 under the provisions of PTI 03-17171 (issued April 27, 2011), the rolling, 12-month summation of the coating asphalt usage in emissions units P101 and P102 combined, in tons;

k. the calculated monthly emission rates for OC for emissions units P101, P102, and T105, combined, using the following equation:

OC emissions (tons) = (Throughput, in tons) 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

l. the calculated monthly emission rates for PM10 for emissions units P101, P102, and T105, combined, using the following equation:

PM10 emissions (tons) = (Throughput, in tons) 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 rates of CO for emissions units P101, P102, and P105, combined, using the following equation:

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

EP No.	Emission Factor	Throughput
EP01/EP02	0.3680 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. 1and Line No. 2 combined. (EQ156 & EQ157)
	0.00242 lb/ton, Overlay	Tons, Overlay asphalt

	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

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

SO2 emissions (tons) = (Throughput, in tons) x (company-supplied emission factors) x (1 ton/2000 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

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

(2) 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. the CVM coalescing filter/mist eliminator (CD01);

b. the Flat-Bed HEAF (CD03);

c. the baghouse identified as CD04; and

d. the baghouse identified as CD05.

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, CD04, and CD05.

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
CD04: 0.5 - 7.0 inches of water
CD05: 0.5 - 7.0 inches of water

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

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

(3) 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.

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 a minor permit modification.

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

(4) Modeling to demonstrate compliance with, the “Toxic Air Contaminant Statute”, ORC 3704.03(F)(4)(b), was not necessary because the PTI (03-17171) did 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.

[Authority for term: PTI 03-17171]

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.

[Authority for term: OAC rule 3745-15-03 (A) and PTI 03-17171]

(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/mist eliminator (CD01), the Flat-Bed HEAF (CD03), or the baghouses (CD04 and CD05) was outside of the acceptable range;

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).

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

(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/mist eliminator (CD01) was above the acceptable maximum;

b. an identification of each incident of deviation described in e)(3)a. where a prompt investigation was not conducted;

c. an identification of each incident of deviation described in e)(3)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).

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

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 emission testing shall be conducted within 180 days after the issuance of PTI 03-17171 (issued April 27, 2011).

b. The emission testing shall be conducted to demonstrate compliance with the following emission limitations:

i. For OCs:

(a) 8.33 lbs OC/hr for EP01/EP02* (when storing saturant 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) 0.75 lb OC/hr for EP04;

(e) 1.75 lbs OC/hr for EP05/EP06/EP07;

(f) 2.84 lbs OC/hr for EP08; and

(g) 0.40 lb OC/hr for EP34.

ii. For PM10:

(a) 0.068 lb PM10/ton of coating asphalt for EP01/EP02*;

(b) 0.0571 lb PM10/ton of coating asphalt for EP03*;

(c) 0.08965 lb PM10/ton of coating asphalt for EP04;

(d) 0.3396 lb PM10/ton of coating asphalt for EP05/EP06/EP07;

(e) 0.07468 lb PM10/ton of coating asphalt for EP08;

(f) 0.08879 lb PM10/ton of coating asphalt for EP34; and

(g) 0.05143 lb PM10/hr for EP36.

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 #1 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.

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 appropriate District Office or local air agency's refusal to accept the results of the emissions tests.

e. Personnel from the appropriate District Office or local 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.

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

(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
EP01/EP02** (when storing saturant in T105)	8.33	22.47	0.0680	6.80
EP01/EP02** (when storing AC-20 in T105)	9.18	26.02	0.0680	6.81
EP03***	0.64	1.74	0.0571	5.71
EP04	0.75	3.02	0.08965	5.41
EP05/EP06/EP07	1.75	7.02	0.3396	20.48
EP08***	2.84	10.30	0.07468	5.86
EP34	0.40	1.62	0.08879	5.36
EP36	0	0	0.05143 (lb/hr)	0.23
EP38	0.23	0.16	0.755	0.57

*All emissions of particulate matter are assumed to be PM10.
**Combined limit for P101, P102, and T105.
***Combined limit for P101 and P102.

Applicable Compliance Methods:

Emissions from EP38 represent emissions from plant operations that are emitted to the inside of the facility building and ultimately emitted through building egress points (i.e. building windows, doors, roof monitors, etc.). The short term emission limitations for EP38 are emission levels based on potential to emit calculations derived from stack testing results of a similar operation. Since the emission limitations for EP38 represent the potentials to emit, no monitoring, record keeping, or reporting requirements are necessary to demonstrate compliance with the emission limitations. Compliance with all other 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 throughput per year with the company-supplied emission factors 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.

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

b. Emission Limitations:

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
EP04	1.24	4.96

CertainTeed ID Emission Point	CO lbs/hr	CO TPY
EP05/EP06/EP07	1.04	4.16
EP08	0.68	2.46
EP38	0.20	0.14

Applicable Compliance Methods:

For EP04 and EP05/EP06/EP07, the permittee may demonstrate compliance with the lb/hr limitation for CO by multiplying a maximum asphalt coating usage rate of 15.06 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 tons/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 tons/hr and a maximum sealant rate of 0.5696 tons/hr. For EP03, use a maximum coating rate of 36.716 tons/hr. For EP08, use a maximum coating rate of 21.65 tons/hr and for EP38 use a maximum asphalt rate of 1.072 tons/hr. If required, compliance shall be 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.

Except for EP38, the ton/year limitations were established by multiplying the tons of coating asphalt usage per year with the CO emissions factor and applying a conversion factor of 1 ton/2000 lbs. For EP38, the ton/year limitation was established by multiplying the tons of asphalt applied at the Overlay Applicator per year with the CO 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.

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

c. Emission Limitations:

CertainTeed ID Emission Point	SO2 lbs/hr	SO2 TPY
EP01/EP02	1.13	4.26
EP04	0.24	0.95
EP05/EP06/EP07	0.20	0.80
EP08	0.13	0.47
EP38	0.03	0.02

Applicable Compliance Methods:

For EP04 and EP05/EP06/EP07, the permittee may demonstrate compliance with the lb/hr limitations for SO2 by multiplying a maximum coating asphalt usage rate of 15.06 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 coating rate of 36.716 tons/hr and for EP38, use a maximum asphalt rate of 1.072 tons/hr. For EP08, use a maximum coating asphalt rate of 21.65 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.

Except for EP38, 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. For EP38, the ton/year limitation was established by multiplying the tons of asphalt applied at the Overlay Applicator per year with the SO2 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.

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

d. Emission Limitation:

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

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.

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

e. Emission Limitation:

CertainTeed ID for Emission Point	Opacity Requirement
EP03	0% opacity
EP04	20% opacity, as a six-minute average, except as provided by rule
EP05/EP06/EP07	20% opacity, as a six-minute average, except as provided by rule
EP08	20% opacity, as a six-minute average, except as provided by rule
EP34	20% opacity, as a six-minute average, except as provided by rule
EP36	10% opacity
EP38	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).

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

f. Emission Limitations:

Federally enforceable emission limitations for P101, P102, T101, T102, T103, T104, and T105, combined:

i. 142.17 tons OC/rolling, 12-month period;

ii. 66.73 tons emissions of particulate matter 10 microns or less in size PM10/rolling, 12-month period;

iii. 37.49 tons CO/rolling, 12-month period; and

iv. 5.20 tons SO2/rolling, 12-month period;

Applicable Compliance Method:

Compliance shall be demonstrated by the monitoring and record keeping requirements in Section B.2.f).

[OAC rule 3745-77-07 (C)(1) and 03-17171]

g) Miscellaneous Requirements

(1) None.

2. **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

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)(4).

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) (PTI 03-17171 issued April 27, 2011)	Control measures – see b)(2)b. Short-term emission limitations – see b)(2)b. Visible emission restrictions – see b)(2)c. See b)(2)a.
b.	OAC rule 3745-31-05(D) (PTI 03-17171 issued April 27, 2011)	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
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 3745-18-06(E)	See b)(2)h.

	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)(4).

(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		

*Line #1 Vertical Mixer	EQ104	EP03	CD03
Line #2 Horizontal Mixer	EQ115		
Line #2 Vertical Mixer	EQ116		
Line #2 Surfacing – Backing Application	EQ117B	EP08	CD06
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	EP09	CD07
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
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
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:

Certain Teed 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)
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.

c) Operational Restrictions

(1) None.

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 under the provisions of PTI 03-17171 (issuedApril 27, 2011), 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 under the provisions of PTI 03-17171 (issued April 27, 2011), 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

l. 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
	0.00316 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	Tons, coating asphalt for

	asphalt	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:

CO emissions in tons = (Throughput) x (company supplied emission factors) x (1 ton/2000 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)
	0.003685 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	0.0823 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

n. the calculated monthly emission of SO2 for P101, P102, and P105 combined using the following equation:

SO2 emissions in tons = (Throughput) x (company supplied emission factors) x (1 ton/2000 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

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

(2) 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 a minor permit modification.

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

(3) 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.

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 a minor permit modification.

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

(4) Modeling to demonstrate compliance with, the “Toxic Air Contaminant Statute”, ORC 3704.03(F)(4)(b), was not necessary because the PTI (03-17171) did 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.

[Authority for term: PTI 03-17171]

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.

[Authority for term: OAC rule 3745-15-03 (A) and PTI 03-17171]

(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;

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).

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

(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:

f. each period of time when the inlet temperature to the CVM coalescing filter (CD01), was above the acceptable maximum;

g. an identification of each incident of deviation described in e)(2)a. where a prompt investigation was not conducted;

h. 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

i. 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).

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

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 PTI 03-17171 (issued April 27, 2011).

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.

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

(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
EP01/EP02** (when storing saturant in T105)	8.33	22.47	0.068	6.80
EP01/EP02** (when storing AC-20 in T105)	9.18	26.02	0.0680	6.81
EP01/EP02 (T105)***			0.00316	
EP03**	0.64	1.74	0.0571	5.71
EP08	2.84	10.30	0.07468	5.86
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.

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

b. 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.

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

c. 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.

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

d. 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.

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

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.

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

f. Emission Limitations:

Federally enforceable emission limitations for P101, P102, T101, T102, T103, T104, and T105, combined:

i. 142.17 tons OC/rolling, 12-month period;

ii. 66.73 tons emissions of particulate matter 10 microns or less in size PM10/rolling, 12-month period;

iii. 37.49 tons CO/rolling, 12-month period; and

iv. 5.20 tons SO2/rolling, 12-month period;

Applicable Compliance Method:

Compliance shall be demonstrated by the monitoring and record keeping requirements in Section B.2.f).

[OAC rule 3745-77-07 (C)(1) and 03-17171]

g. 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).

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

g) Miscellaneous Requirements

(1) None.

3. **P103, Offline laminator**

Operations, Property and/or Equipment Description:

off-line laminator system

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)d. and d)(2).

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) (PTI# P0108763 issued September 21, 2011)	0.13 lb organic compounds (OC)/hour; 0.58 ton OC/year; 0.01 lb particulate matter 10 microns or less in size (PM10)/hour; 0.03 ton PM10/yr; 0.01 lb carbon monoxide (CO)/hour; 0.06 ton CO/year See b)(2)a. through b)(2)c.
b.	OAC rule 3745-17-07(A)	See b)(2)d.
c.	OAC rule 3745-17-11(B)	See b)(2)d.
d.	ORC 3704.03(F) OAC rule 3745-114-01	See d)(3).

(2) Additional Terms and Conditions

a. Best Available Technology (BAT) control requirements for this emissions unit has been determined to be compliance with the terms and conditions of this permit and use of the following particulate control equipment:

i. a Mini-HEAF (CD09) resulting in emissions discharged which does not exceed 0.002596 lb PM10/ton of coating asphalt used, for the following equipment:

CertainTeed ID for Source Equipment	Source Equipment
EQ128	Off-Line Laminator Sealant Applicator
EQ129	Off-Line Laminator Laminant Applicator
EQ130	Off-Line Laminator Laminant Melt Pot

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

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
EP12	0% opacity	OAC rule 3745-31-05(A)(3)

d. The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall properly install, operate and maintain equipment to continuously monitor the pressure drop in inches of water across the Mini-HEAF (CD09) 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 pressure drop in inches of water on a once per shift basis for CD09.

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 Mini-HEAF (CD09) shall be continuously maintained between 6.0 – 35.0 inches of water while the emissions unit is in operation.

This range is 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 this range based upon information obtained during future particulate emission tests that demonstrate compliance with the allowable particulate emission rate for this emissions unit. In addition, an approved revision to this range will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a minor permit modification.

[OAC rule 3745-77-07 (C)(1) and P0108763]

(2) Modeling to demonstrate compliance with, the “Toxic Air Contaminant Statute”, ORC 3704.03(F)(4)(b), was not necessary because the PTI (03-17171) did 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.

[P0108763]

e) Reporting Requirements

(1) The permittee shall submit quarterly reports that identify the following information concerning the operation of the control equipment during the operation of this emissions unit:

a. each period of time when the pressure drop across the Mini-HEAF (CD09) was outside of the acceptable range;

b. an identification of each incident of deviation described in e)(1)a. where a prompt investigation was not conducted;

c. an identification of each incident of deviation described in e)(1)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)(1)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).

[OAC rule 3745-77-07 (C)(1) and P0108763]

(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.

[Authority for term: OAC rule 3745-15-03 (A) and P0108763]

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 lb/hr	OC TPY	PM10* lb/hr	PM10* TPY	CO lb/hr	CO TPY
EP12	0.13	0.58	0.01	0.03	0.01	0.06

*All PE are considered PM10.

Applicable Compliance Methods:

The hourlyemission limitations were established by multiplying a maximum asphalt coating usage rate of 3.008 tons/hr by the company supplied emission factors in units of lbs/ton asphalt used, specific to individual components of the line. Emission factors used in the compliance demonstration for OC and CO lb/hr limitations for EP12 are as follows:

0.04374 lb OC per ton coating asphalt used;
0.002596 lb PM10 per ton coating asphalt used;
0.004423 lb CO per ton coating asphalt used.

If required, the permittee shall demonstrate compliance with the short term emission limitations by emission testing in accordance with the following:

For OC: emission testing in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4, 18, 25 and/or 25A, as appropriate.

For CO: emission testing in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4, and 10.

For PM10: emission testing in accordance with Methods 1-4 of 40 CFR Part 60, Appendix A and Methods 201/201A and 202 of 40 CFR Part 51, Appendix M.

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 respective allowable lbs/hr with 8760 hours per year 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.

[OAC rule 3745-77-07 (C)(1) and P0108763]

g) Miscellaneous Requirements

(1) None.

4. **P104, Line No. 1 Filler System**

Operations, Property and/or Equipment Description:

line no. 1 hot filler system

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)d. and d)(2).

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(D) (PTI 03-17171 issued April 27, 2011)	Control measures – see b)(2)b. Short-term emission limitations for particulate matter 10 microns or less in diameter (PM10) – see b)(2)c. Long-term emission limitation for PM10 – see b)(2)d. Visible emission restrictions – see b)(2)e. 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.	ORC 3704.03(F) OAC rule 3745-114-01	See d)(2).
e.	OAC rule 3745-31-05(A)(3) as effective 11/30/01 (PTI 03-17171 issued April 27, 2011)	Short-term emission limitation for organic compounds (OC) – see b)(2)c. See b)(2)g.
f.	OAC rule 3745-31-05(A)(3) as effective 12/01/06 (PTI 03-17171 issued April 27, 2011)	See b)(2)h.

(2) Additional Terms and Conditions

a. Line #1 Filler System receives stores and heats filler for use on Line #1 and also provides emission control for two pieces of equipment associated with Line #2.

The system consists of five main process components, four baghouse emission control systems and four emission points.

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
No. 1 Filler Silo w/ pneumatic truck loading	EQ131	EP13	CD10
Line #2 Filler Transfer	EQ139		
No. 3 Filler Silo w/ pneumatic truck loading	EQ132	EP14	CD11
No. 4 Filler Silo w/ pneumatic truck loading	EQ133		
Line #2 Backing Silo	EQ155		
Line #1 Hot Filler Surge Bin	EQ135	EP15	CD12
Line #1 Filler Heater w/ Hot Oil Heating	EQ134	EP21	CD18

b. PTI 03-17171 (issued April 27, 2011) establishes the following federally enforceable emission limitations for the purpose of limiting potential to emit (PTE) for emissions of particulate matter 10 microns or less in diameter (PM10) based on the following control equipment requirements:

i. a baghouse (CD10) resulting in emissions discharged which does not exceed 0.015 grains PM10 per dscf for the following equipment:

CertainTeed ID for Source Equipment	**Source Equipment**
EQ131	#1 Filler Silo
EQ139	Line #2 Filler Transfer

ii. a baghouse (CD11) resulting in emissions discharged which does not exceed 0.015 grains PM10 per dscf for the following equipment:

CertainTeed ID for Source Equipment	**Source Equipment**
EQ132	#3 Filler Silo with Pneumatic Truck Loading
EQ133	#4 Filler Silo with Pneumatic Truck Loading
EQ155	Line #2 Backing Silo

iii. a baghouse (CD12) resulting in emissions discharged which does not exceed 0.02353 lb PM10/ton of coating asphalt used for the following equipment:

CertainTeed ID for Source Equipment	Source Equipment
EQ135	Line #1 Hot Filler Surge Bin

iv. a baghouse (CD18) resulting in emissions discharged which does not exceed 0.06186 lb PM10/ton of coating asphalt used for the following equipment:

CertainTeed ID for Source Equipment	Source Equipment
EQ134	Line #1 Hot Filler Heater with Hot Oil Heating

c. Short term emission limitations for this emissions unit are summarized as follows:

CertainTeed ID for Emission Point	OC lbs/hr	PM10* (lb/ton)
EP13	0	0.3182 (lb/hr)
EP14	0	0.1286 (lb/hr)
EP15	0.18	0.02353
EP21	1.16	0.06186

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

d. Long term emission limitations for this emissions unit are the combined emissions from EP13, EP14, EP15, and EP21 as presented below:

i. 5.39 tons OC/year;

ii. 7.11 tons PM10/year

e. 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
EP13	0% opacity	OAC rule 3745-31-05(D)
EP14	0% opacity	OAC rule 3745-31-05(D)
EP15	0% opacity	OAC rule 3745-31-05(D)
EP21	0% opacity	OAC rule 3745-31-05(D)

f. The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(D).

g. The requirements of this rule are include the requirements established pursuant to OAC rule 3745-31-05(D); therefore, the permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC rule 3745-31-05(A)(3), as effective November 30, 2001, in this permit.

On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to Ohio Revised Code (ORC) changes effective August 3, 2006 (Senate Bill 265 Changes), such that BAT is no longer required by State regulations for

NAAQS pollutants less than ten tons per year. However, that rule revision has not yet been approved by U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-31-05, the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. Once U.S. EPA approves the December 1, 2006 version of 3745-31-05, the requirements of 3745-31-05(A)(3) as effective 12-1-06 will no longer apply.

It should be noted that the emission limitations and control requirements established pursuant to OAC rule 3745-31-05(D) for PM10 will remain applicable after the above SIP revisions are approved by U.S. EPA.

h. This rule applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan.

i. Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3)(a), as effective December 1, 2006, do not apply to:

i. PM10 from this air contaminant source since the controlled potential to emit (PTE) is less than 10 tons per year taking into consideration federally enforceable requirements established under OAC rule 3745-31-05(D).

ii. Volatile organic compound (VOC) emissions since the uncontrolled PTE is less than 10 tons per year.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall properly install, operate and maintain equipment to continuously monitor the pressure drop in inches of water across the following particulate control devices, during the operation of this emissions unit:

a. a baghouse (CD10);

b. a baghouse (CD11);

c. a baghouse (CD12); and

d. a baghouse (CD18).

The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop in inches of water on a once per shift basis, for CD10, CD11, CD12 and CD18.

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

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

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

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

CD10:	0.5 - 7.0 inches of water
CD11:	0.5 - 7.0 inches of water
CD12:	0.5 - 7.0 inches of water
CD18:	0.5 - 7.0 inches of water

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

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

(2) Modeling to demonstrate compliance with, the “Toxic Air Contaminant Statute”, ORC 3704.03(F)(4)(b), was not necessary because the PTI (03-17171) did 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.

[Authority for term: PTI 03-17171]

e) Reporting Requirements

(1) The permittee shall submit quarterly reports that identify the following information concerning the operation of the control equipment during the operation of this emissions unit:

a. each period of time when the pressure drop across the baghouses (CD10, CD11, CD12, and CD18) was outside of the acceptable range;

b. an identification of each incident of deviation described in e)(1)a. where a prompt investigation was not conducted;

c. an identification of each incident of deviation described in e)(1)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)(1)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).

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

(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.

[Authority for term: OAC rule 3745-15-03 (A) and PTI 03-17171]

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. <u>Emission Limitations:</u>

CertainTeed ID Emission Point	OC lbs/hr	OC TPY	PM10* (lb/ton)	PM10 TPY
EP13	0	5.39	0.32 (lb/hr)	7.11
EP14	0		0.13 (lb/hr)	
EP15	0.18		0.02353	
EP21	1.16		0.06186	

*All PE are considered to be PM10.

<u>Applicable Compliance Methods:</u>

TheOC lb/hr emission limitations for EP15 and EP21 were established by multiplying a maximum asphalt coating usage rate of 15.06 tons/hr by the company supplied emission factors in units of lbs/ton asphalt used, specific to individual components of the line. Emission factors used in the compliance demonstration for OC lb/hr limitations for EP15 and EP21 are as follows:

EP15	0.01221 lb/ton, coating asphalt
EP21	0.07707 lb/ton, coating asphalt

The PM10 lb/ton and lb/hr emission limitations represent the potential to emit based on company supplied emission factors for the multiple processes of this emissions unit.

If required, the permittee shall demonstrate compliance with the short term emission limitations by emission testing in accordance with the following:

For OC: emission testing in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4, 18, 25 and/or 25A, as appropriate.

For PM10: emission testing in accordance with Methods 1-4 of 40 CFR Part 60, Appendix A and Methods 201/201A and 202 of 40 CFR Part 51, Appendix M.

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 process throughput 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 emission limitations, compliance with the annual emission limitations shall also be demonstrated.

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

b. Emission Limitation:

CertainTeed ID for Emission Point	Opacity Requirement
EP13	0% opacity
EP14	0% opacity
EP15	0% opacity
EP21	0% opacity

Applicable Compliance Method:

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

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

g) Miscellaneous Requirements

(1) The permittee shall comply with the Consent Order and Final Judgment Entry dated October 19, 2009. Pursuant to paragraph 11 of the Consent Order and Final Judgment Entry, the permittee submitted limestone sampling and monitoring procedures that are detailed in the January 18, 2010 letter. This plan is to be implemented and proper record keeping should detail compliance.

5. **P105, Line No. 2 Filler System**

Operations, Property and/or Equipment Description:

line no. 2 hot filler system

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)d. and d)(2).

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) (PTI 03-17171 issued April 27, 2011)	Control measures – see b)(2)b.i. through b)(2)b.v. Short-term emission limitations – see b)(2)c. Long-term emission limitations – see b)(2)d. Visible emission restrictions – see b)(2)e. 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.	ORC 3704.03(F) OAC rule 3745-114-01	See d)(2).

(2) Additional Terms and Conditions

a. Line #2 Hot Filler System receives, stores and heats filler for use on Line #2. The system consists of five main process components, five baghouse emission control systems and five emission points. EQ139 may also be discharged through CD10 and EP13 associated with the Line #1 Hot Filler System.

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
East 600 Ton Filler Silo w/ pneumatic truck loading	EQ136	EP16	CD13
West 600 Ton Filler Silo w/ pneumatic truck loading	EQ137	EP17	CD14
Filler Feeder	EQ138	EP18	CD15
Line #2 Filler Transfer and 50 Ton Filler Storage	EQ139	EP19	CD16
Line #2 Filler Heater and Transfer System w/ direct-fired burner and Hot Filler Receiving Bin	EQ140	EP20	CD17

b. Best Available Technology (BAT) requirements for this emissions unit has been determined to be compliance with the terms and conditions of this permit and use of the following particulate control equipment:

i. a baghouse (CD13) resulting in emissions discharged which does not exceed 0.015 grains PM10 per dscf for the following equipment:

CertainTeed ID for Source Equipment	Source Equipment
EQ136	East 600 Ton Filler Silo

ii. a baghouse (CD14) resulting in emissions discharged which does not exceed 0.015 grains PM10 per dscf for the following equipment:

CertainTeed ID for Source Equipment	Source Equipment
EQ137	West 600 Ton Filler Silo

iii. a baghouse (CD15) resulting in emissions discharged which does not exceed 0.015 grains PM10 per dscf for the following equipment:

CertainTeed ID for Source Equipment	Source Equipment
EQ138	Filler Feeder

iv. a baghouse (CD16) resulting in emissions discharged which does not exceed 0.015 grains PM10 per dscf for the following equipment:

CertainTeed ID for Source Equipment	Source Equipment
EQ139	50 Ton Filler Storage

v. a baghouse (CD17) resulting in emissions discharged which does not exceed 0.04043 lb PM10/ton of coating asphalt used for the following equipment:

CertainTeed ID for Source Equipment	Source Equipment
EQ140	Line #2 Filler Heater and Hot Filler Receiving Bin

c. Short term emission limitations for this emissions unit are summarized as follows:

CertainTeed ID for Emission Point	OC lbs/hr	PM10* (lb/ton)
EP16	0	0.4863 (lb/hr)
EP17	0	0.4863 (lb/hr)
EP18	0	0.0932 (lb/hr)
EP19	0	0.3182 (lb/hr)
EP20	5.43	0.04043

*All PE are considered to be PM10.

d. Long term emission limitations for this emissions unit are the combined emissions from EP16, EP17, EP18, EP19, and EP20 as presented below:

i. 19.69 tons OC/year;

ii. 9.24 tons PM10/year.

e. 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
EP16	0% opacity	OAC rule 3745-31-05(A)(3)
EP17	0% opacity	OAC rule 3745-31-05(A)(3)
EP18	0% opacity	OAC rule 3745-31-05(A)(3)
EP19	0% opacity	OAC rule 3745-31-05(A)(3)
EP20	0% opacity	OAC rule 3745-31-05(A)(3)

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).

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall properly install, operate and maintain equipment to continuously monitor the pressure drop in inches of water across the following particulate control devices, during the operation of this emissions unit:

a. a baghouse (CD13);

b. a baghouse (CD14);

c. a baghouse (CD15);

d. a baghouse (CD16); and

e. a baghouse (CD17).

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 CD13, CD14, CD15, CD16 and CD17.

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:

CD13:	0.5 - 7.0 inches of water
CD14:	0.5 - 7.0 inches of water
CD15:	0.5 - 7.0 inches of water
CD16:	0.5 - 7.0 inches of water
CD17:	0.5 - 7.0 inches of water

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

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

(2) Modeling to demonstrate compliance with, the “Toxic Air Contaminant Statute”, ORC 3704.03(F)(4)(b), was not necessary because the PTI (03-17171) did 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.

[Authority for term: PTI 03-17171]

e) Reporting Requirements

(1) The permittee shall submit quarterly reports that identify the following information concerning the operation of the control equipment during the operation of this emissions unit:

a. each period of time when the pressure drop across the baghouses (CD13, CD14, CD15, CD16 and CD17) was outside of the acceptable range;

b. an identification of each incident of deviation described in e)(1)a. where a prompt investigation was not conducted;

c. an identification of each incident of deviation described in e)(1)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)(1)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).

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

(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.

[Authority for term: OAC rule 3745-15-03 (A) and PTI 03-17171]

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 mass emission limitations of 5.43 lbs OC/hr for EP20;

ii. the mass emission limitations of:

(a) 0.49 lb PM10/hour for each of EP16 and EP17;

(b) 0.09 lb PM10/hour for EP18;

(c) 0.32 lb PM10/hour for EP19; and

(d) 0.04043 lb PM10/ton of coating asphalt for EP20;

iii. the 0.015 grains PM10 per dscf for each baghouse (CD13, CD14, CD15, and CD16); and

iv. 0% opacity when the emission 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 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.

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

(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
EP16	0	19.69	0.4863 (lb/hr)	9.24
EP17	0		0.4863 (lb/hr)	
EP18	0		0.0932 (lb/hr)	
EP19	0		0.3182 (lb/hr)	
EP20	5.43		0.04043	

Applicable Compliance Methods:

Compliance with the short term emissions 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 process throughput 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 emission limitations, compliance with the annual emission limitations shall also be demonstrated.

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

b. Emission Limitation:

CertainTeed ID for Emission Point	Opacity Requirement
EP16	0% opacity
EP17	0% opacity

CertainTeed ID for Emission Point	Opacity Requirement
EP18	0% opacity
EP19	0% opacity
EP20	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.

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

g) Miscellaneous Requirements

(1) The permittee shall comply with the Consent Order and Final Judgment Entry dated October 19, 2009. Pursuant to paragraph 11 of the Consent Order and Final Judgment Entry, the permittee submitted limestone sampling and monitoring procedures that are detailed in the January 18, 2010 letter. This plan is to be implemented and proper record keeping should detail compliance.

6. **T105, Saturant/AC-20 Asphalt Storage Tank**

Operations, Property and/or Equipment Description:

saturant asphalt storage tank (15,000 gallons)

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)f. and d)(4).

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) (PTI 03-17171 issued April 27, 2011)	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 3745-31-05(D) (PTI 03-17171 issued April 27, 2011)	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 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.	40 CFR Part 60, Subpart UU	See b)(2)c. through b)(2)e.
f.	ORC 3704.03(F) OAC rule 3745-114-01	See d)(4).

(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
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)	8.33	0.0680	6.81

CertainTeed ID for Emission Point	OC lb/hr*	PM10* (lb/ton)	CO lb/hr*
EP01/EP02 (when storing AC-20 in T105)	9.18	0.0680	6.88

*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).

c) Operational Restrictions

(1) None.

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 for CD05 and CD07;

i. during the first 12 calendar months of operation under the provisions of PTI 03-17171 (issued April 27, 2011), 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 under the provisions of PTI 03-17171 (issued April 27, 2011), 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

l. 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
	0.004517 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:

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

EP No.	Emission Factor	Throughput
EP01/EP02	0.3718 lb/ton, coating asphalt	Tons, coating asphalt for Line No. 1 plus Line No. 2
	0.0572 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)
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	Tons, coating asphalt for

	asphalt	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

(2) 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

This range is 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 this range 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 revision to this range will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a minor permit modification.

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

(3) 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.

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 a minor permit modification.

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

(4) Modeling to demonstrate compliance with, the “Toxic Air Contaminant Statute”, ORC 3704.03(F)(4)(b), was not necessary because the PTI (03-17171) did 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.

[Authority for term: PTI 03-17171]

e) Reporting Requirements

(1) The permittee shall submit quarterly reports that identify the following information concerning the operation of the control equipment during the operation of this emissions unit:

a. each period of time when the 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 inlet temperature 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).

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

(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/mist eliminator CD01 was outside of the acceptable range;

b. an identification of each incident of deviation described in e)(3)a. where a prompt investigation was not conducted;

c. an identification of each incident of deviation described in e)(3)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).

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

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)	8.33	0.068	6.81
EP01/EP02 (when storing AC-20 in T105)	9.18	0.0680	6.88

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 36.716 tons/hr, a maximum Line 1 coating rate of 15.06 tons/hr, a maximum saturant rate of 0.1429 tons/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 tons/hr and a maximum sealant rate of 0.5696 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 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.

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

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.

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

c. Emission Limitations:

Federally enforceable emission limitations for P101, P102, T101, T102, T103, T104, and T105, combined:

i. 142.17 tons OC/rolling, 12-month period;

ii. 66.73 tons emissions of particulate matter 10 microns or less in size PM10/rolling, 12-month period;

iii. 37.49 tons CO/rolling, 12-month period; and

iv. 5.20 tons SO2/rolling, 12-month period;

Applicable Compliance Method:

Compliance shall be demonstrated by the monitoring and record keeping requirements in Section B.2.f).

[OAC rule 3745-77-07 (C)(1) and 03-17171]

g) Miscellaneous Requirements

(1) None.

7. **Emissions Unit Group -Coating Asphalt Heaters: B103,B104,B105,**

EU ID	Operations, Property and/or Equipment Description
B104	no. 2 coating asphalt heater (east vertical asphalt heater)(14.0 MMBtu/hr)
B105	no. 3 AC-20/coating asphalt heater (west vertical asphalt heater)(14.0 MMBtu/hr

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)e. and d)(2).

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) (PTI 03-17171 issued April 27, 2011)	<u>B104 and B105</u> 1.37 lbs of nitrogen oxides (NOx)/hour; 6.01 tons of NOx/year 1.15 lbs of carbon monoxide (CO)/hour; 5.05 tons of CO/year 0.15 lb of organic compounds (OC)/hour; 0.66 ton of OC/year 0.10 lb of particulate matter 10 microns or less in diameter (PM10)/hour; 0.46 ton of PM10/year Visible particulate emissions (PE) shall not exceed 5% opacity, as a six-minute average. See b)(2)c.
b.	OAC rule 3745-17-10(C)(2)	See b)(2)b.
c.	OAC rule 3745-17-07(A)(1)(a)	See b)(2)b.
d.	ORC 3704.03(F) OAC rule 3745-114-01	See d)(2).

(2) Additional Terms and Conditions

a. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

b. All particulate emissions are considered to be PM10.

c) Operational Restrictions

(1) The permittee shall burn only natural gas in this emissions unit.

[Authority for term: OAC rule 3745-77-07 (A)(1) and PTI 03-17171]

d) Monitoring and/or Recordkeeping Requirements

(1) For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

(2) Modeling to demonstrate compliance with, the “Toxic Air Contaminant Statute”, ORC 3704.03(F)(4)(b), was not necessary because the PTI (03-17171) did 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.

[Authority for term: PTI 03-17171]

e) Reporting Requirements

(1) The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

(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.

[Authority for term: OAC rule 3745-15-03 (A) and PTI 03-17171]

f) Testing Requirements

(1) Compliance with the emission limitations in section b)(1) of the terms and conditions of this permit shall be determined in accordance with the following methods:

a. <u>Emission Limitations:</u>

B104 and B105: 1.37 lbs of NOx/hour; 6.01 tons of NOx/year

Applicable Compliance Method:

The hourly emission rate was established by multiplying the maximum heat input rate of 14 million British thermal units (MMBtu) per hour (for each of B104 and B105) by the appropriate AP-42 emission factor of 100 lbs/10^6 ft^3 (scf) from Chapter 1, Table 1.4-1 (7/1998) and dividing a heating value of 1020 Btu/scf for natural gas. If required, the permittee shall demonstrate compliance by emission testing in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4, and 7. Alternative U.S. EPA approved test methods may be used with prior approval from the appropriate District Office or local air agency.

The tons per year limitation was established by multiplying the lbs per hourlimitation by the maximum operating schedule of 8760 hours per year, and dividing by 2000 lbs per ton. Therefore, provided compliance is shown with the hourly limitation, compliance with the annual emission limitation shall also be demonstrated.

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

b. Emission Limitations:

B104 and B105: 1.15 lbs of CO/hour; 5.05 tons of CO/year

Applicable Compliance Method:

The hourly emission rate was established by multiplying the maximum heat input rate of 14 million British thermal units (MMBtu) per hour (for each of B104 and B105) by the appropriate AP-42 emission factor of 84 lbs/10^6 ft^3 (scf) from Chapter 1, Table 1.4-1 (7/1998) and dividing a heating value of 1020 Btu/scf for natural gas. If required, the permittee shall demonstrate compliance by emission testing in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4, and 10. Alternative U.S. EPA approved test methods may be used with prior approval from the appropriate District Office or local air agency.

The tons per year limitation was established by multiplying the lbs per hourlimitation by the maximum operating schedule of 8760 hours per year, and dividing by 2000 lbs per ton. Therefore, provided compliance is shown with the hourly limitation, compliance with the annual emission limitation shall also be demonstrated.

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

c. Emission Limitations:

B104 and B105: 0.15 lb of OC/hour; 0.66 ton of OC/year

Applicable Compliance Method:

The hourly emission rate was established by multiplying the maximum heat input rate of 14 million British thermal units (MMBtu) per hour (for each of B104 and B105) by the appropriate AP-42 emission factor of 11 lbs/10^6 ft^3 (scf) from Chapter 1, Table 1.4-1 (7/1998) and dividing a heating value of 1020 Btu/scf for

natural gas. If required, the permittee shall demonstrate compliance by emission testing in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4, 18, 25 and/or 25A, as appropriate. Alternative U.S. EPA approved test methods may be used with prior approval from the appropriate District Office or local air agency.

The tons per year limitation was established by multiplying the lbs per hourlimitation by the maximum operating schedule of 8760 hours per year, and dividing by 2000 lbs per ton. Therefore, provided compliance is shown with the hourly limitation, compliance with the annual emission limitation shall also be demonstrated.

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

d. Emission Limitations:

B104 and B105: 0.10 lb of PM10/hour; 0.46 ton of PM10/year

Applicable Compliance Method:

The hourly emission rate was established by multiplying the maximum heat input rate of 14 million British thermal units (MMBtu) per hour (for each of B104 and B105) by the appropriate AP-42 emission factor of 7.6 lbs/10^6 ft^3 (scf) from Chapter 1, Table 1.4-1 (7/1998) and dividing a heating value of 1020 Btu/scf for natural gas. If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1-4 of 40 CFR Part 60, Appendix A and Methods 201/201A of 40 CFR Part 51, Appendix M. Alternative U.S. EPA approved test methods may be used with prior approval from the appropriate District Office or local air agency.

The tons per year limitation was established by multiplying the lbs per hourlimitation by the maximum operating schedule of 8760 hours per year, and dividing by 2000 lbs per ton. Therefore, provided compliance is shown with the hourly limitation, compliance with the annual emission limitation shall also be demonstrated.

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

e. Emission Limitations:

Visible PE shall not exceed 5% opacity, as a six-minute average.

Applicable Compliance Method:

If required, compliance with the visible emissions limitations established by this permit shall be determined by Method 9, 40 CFR Part 60 Appendix A.

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

g) Miscellaneous Requirements

(1) None.

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

EU ID	Operations, Property and/or Equipment Description
T101	50000 gallon asphalt storage tank
T102	coating asphalt storage tank no. 2 (50,000 gallons)
T103	asphalt storage tank no. 3 (50,000 gallons)
T104	50000 gallon 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)e. and d)(2).

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) (PTI 03-17171 issued April 27, 2011)	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.	40 CFR Part 60, Subpart UU	See b)(2)d. and b)(2)e.
e.	ORC 3704.03(F) OAC rule 3745-114-01	See d)(2).

(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 these emissions units have been determined to be the following:

i. compliance with OAC rule 3745-31-05(D);

ii. compliance with the terms and conditions of this permit; and

iii. use of the following particulate control equipment:

(a) a cyclone and mist eliminator (CD19 and CD20) resulting in emissions discharged which do not exceed 0.0237 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**	29.19	0.0237	2.17

*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 these emissions units 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).

c) Operational Restrictions

(1) None.

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 emissions 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 these emissions units 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	0.769 lb/ton, asphalt	Tons, coating asphalt and AC-20 asphalt

e. the calculated monthly emission rate for PM10 for these emissions units 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	0.0237 lb/ton, coating asphalt	Tons, coating asphalt and AC-20 asphalt

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

(2) Modeling to demonstrate compliance with, the "Toxic Air Contaminant Statute", ORC 3704.03(F)(4)(b), was not necessary because the PTI (03-17171) did 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.

[Authority for term: PTI 03-17171]

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.

[Authority for term: OAC rule 3745-15-03 (A) and PTI 03-17171]

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 PTI 03-17171 (issued April 27, 2011). 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 0.0237 lb PM10/ton;

ii. the mass emission limitation of 29.19 lbs OC/hr;

iii. the mass emission limitation of 2.17 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.

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

(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. <u>Emission Limitations:</u>

CertainTeed ID Emission Point	OC lbs/hr	OC TPY	PM10* lb/ton	PM10 TPY
EP26, EP27 or EP28*	29.19	80.53	0.0237	2.48

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

Applicable Compliance Methods:

The permittee shall demonstrate compliance with the lbs/hr and lb/ton emission limitations by testing conducted in accordance with the requirements in f)(1) above.

Compliance with the annual emission limitations shall be demonstrated based on the monitoring and recordkeeping requirements in d)(1) above.

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

b. Emission Limitation:

CertainTeed ID Emission Point	CO lbs/hr	CO TPY
EP26, EP27 or EP28*	2.17	5.99

*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.

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

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).

[Authority for term: OAC rule 3745-77-07 (C)(1) and PTI 03-17171]

g) Miscellaneous Requirements

(1) None.