

Facility ID: 0388000002 Issuance type: Title V Preliminary Proposed Permit

This version of facility specific terms and conditions was converted from a database format to an HTML file during an upgrade of the Ohio EPA, Division of Air Pollution Control's permitting software. Every attempt has been made to convert the terms and conditions to look and substantively conform to the permit issued or being drafted in STARS. However, the format of the terms may vary slightly from the original. In addition, although it is not expected, there is a slight possibility that a term and condition may have been inadvertently "left out" of this reproduction during the conversion process. Therefore, if this version is to be used as a starting point in drafting a new version of a permit, it is imperative that the entire set of terms and conditions be reviewed to ensure they substantively mimic the issued permit. The official version of any permit issued final by Ohio EPA is kept in the Agency's Legal section. The Legal section may be contacted at (614) 644-3037.

In addition to the terms and conditions, hyperlinks have been inserted into the document so you may more readily access the section of the document you wish to review.

Finally, the term language under "Part III" and before "I. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 0388000002 Issuance type: Title V Preliminary Proposed Permit

Part II - Specific Facility Terms and Conditions

a State and Federally Enforceable Section

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

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 0388000002 Issuance type: Title V Preliminary Proposed Permit

b State Only Enforceable Section

1. The following insignificant emissions units are located at the facility:

Boiler #4 (9.66 mmBtu/hr input), Ohio EPA emissions unit B012;
Parts Washer, Ohio EPA emissions unit P005;
Dry Off Oven, Ohio EPA emissions unit P006;
Bake Oven, Ohio EPA emissions unit P007;
Air Make Up Unit #1, Ohio EPA emissions unit Z001;
Air Make Up Unit #2, Ohio EPA emissions unit Z002;
Air Make Up Unit #3, Ohio EPA emissions unit Z003;
Air Make Up Unit #4, Ohio EPA emissions unit Z004;
Bonding Area A, Ohio EPA emissions unit Z005;
Bonding Area B, Ohio EPA emissions unit Z006;
Bonding Area C, Ohio EPA emissions unit Z007;
Paint Mix Room #1, Ohio EPA emissions unit Z008;
Touch Up Area A, Ohio EPA emissions unit Z009;
Touch Up Area B, Ohio EPA emissions unit Z010;
Touch Up Area C, Ohio EPA emissions unit Z011;
Touch Up Area D, Ohio EPA emissions unit Z012;
Touch Up Area E, Ohio EPA emissions unit Z013;
Touch Up Area F, Ohio EPA emissions unit Z014;
Touch Up Area G, Ohio EPA emissions unit Z015;
Paint Tech Area, Ohio EPA emissions unit Z016;
Air Make Up Unit #5, Ohio EPA emissions unit Z017;
Air Make Up Unit #6, Ohio EPA emissions unit Z018;
Bonding Area D, Ohio EPA emissions unit Z019;
Bonding Area E, Ohio EPA emissions unit Z020;
Touch Up Area H, Ohio EPA emissions unit Z021;
Touch Up Area I, Ohio EPA emissions unit Z022;
Touch Up Area J, Ohio EPA emissions unit Z023;
Blasdeil Oven, Ohio EPA emissions unit Z024; and
Quality Control Oven #1, Ohio EPA emissions unit Z025.
Quality Control Oven #2, Ohio EPA emissions unit Z026;
Air Make Up Unit #7, Ohio EPA emissions unit Z027;
Air Make Up Unit #8, Ohio EPA emissions unit Z028;
Air Make Up Unit #9, Ohio EPA emissions unit Z029;
Bonding Area F, Ohio EPA emissions unit Z030;
Bonding Area G, Ohio EPA emissions unit Z031

Each insignificant emissions unit at this facility must comply with all applicable State and federal regulations, as well as any emission limitations and/or control requirements contained within a Permit to Install for the emissions unit.

[Go to Part III for Emissions Unit P008](#)

[Go to Part III for Emissions Unit P009](#)

[Go to Part III for Emissions Unit P010](#)

[Go to Part III for Emissions Unit P011](#)

- [Go to Part III for Emissions Unit P012](#)
- [Go to Part III for Emissions Unit P013](#)
- [Go to Part III for Emissions Unit P014](#)
- [Go to Part III for Emissions Unit P015](#)
- [Go to Part III for Emissions Unit P016](#)
- [Go to Part III for Emissions Unit P017](#)
- [Go to Part III for Emissions Unit P018](#)
- [Go to Part III for Emissions Unit P019](#)
- [Go to Part III for Emissions Unit P020](#)
- [Go to Part III for Emissions Unit P021](#)
- [Go to Part III for Emissions Unit P022](#)
- [Go to Part III for Emissions Unit P024](#)
- [Go to Part III for Emissions Unit P025](#)
- [Go to Part III for Emissions Unit P033](#)
- [Go to Part III for Emissions Unit P034](#)
- [Go to Part III for Emissions Unit P035](#)
- [Go to Part III for Emissions Unit P036](#)
- [Go to Part III for Emissions Unit P037](#)
- [Go to Part III for Emissions Unit P038](#)
- [Go to Part III for Emissions Unit P901](#)
- [Go to Part III for Emissions Unit R005](#)
- [Go to Part III for Emissions Unit R006](#)
- [Go to Part III for Emissions Unit R007](#)
- [Go to Part III for Emissions Unit R008](#)
- [Go to Part III for Emissions Unit R009](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: P008 Issuance type: Title V Preliminary Proposed Permit

A. State and Federally Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
compression sheet molding press #1	OAC rule 3745-31-05 (PTI #03-13557)	compression molding- 1.12 lbs organic compound (OC)/hour, 3.90 tons OC/year (See A.I.2.a and A.I.2.c.)
	OAC rule 3745-31-02(A) (PTI #03-13557)	combined limit of 58.1 tons OC/rolling, 12-month period (See A.I.2.b.)
		scrap generation- combined limit of 28.30 tons OC/rolling, 12-month period (See A.I.2.b.)

2. Additional Terms and Conditions

- a. The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-02(A) (2).
- b. The permittee has requested federally enforceable combined emission limitations for compression molding and scrap generation from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038. The federally enforceable emission limitations are based on sheet molding compound (SMC) usage restrictions (see A.II.1) and are being established for the purposes of maintaining the facility's status as a PSD "minor".

- c. The 1.12 lbs OC/hr and 3.90 tons OC/year emission limitations were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and reporting requirements to ensure compliance with these limitations.
- d. This emissions unit is not subject to the requirements specified in OAC rule 3745-21-07(G) because no liquid organic material, as defined in OAC rule 3745-21-01(C)(3), enters the SMC press as a separate raw material.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. The maximum annual SMC usage for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed any of the following:
 - a. 2,000,000 lbs of preheated SMC;*
 - b. 56,600,000 lbs of non-preheated SMC;* and
 - c. 56,600,000 lbs of all SMC, combined (preheated and non-preheated).*

*The annual SMC usage restriction shall be based upon a rolling, 12-month summation of the monthly SMC input rates.
2. The maximum annual scrap generation for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed 56,600,000 lbs per rolling, 12-month period.
3. Raw scrap SMC shall be collected, at a minimum, every eight hours (i.e., at the end of each shift), weighed and placed in a closed container to minimize volatilization of additional styrene.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. In order to demonstrate compliance with the usage restrictions in condition A.II.1. and the allowable OC emission limitation of 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
 - a. the total mass of raw SMC used in all compression molding presses, non-preheated, in pounds;
 - b. the total mass of raw SMC preheated before use in all compression molding presses, in pounds;
 - c. the total mass of raw SMC used in all compression molding presses (a + b), in pounds;
 - d. the calculated OC emissions, in pounds, using the following equations:

$$\text{OC emissions (preheated)} = (\text{lbs/month, from section 1.b}) \times (0.0035 \text{ lb OC/lb SMC})^*$$

$$\text{OC emissions (non-preheated)} = (\text{lbs/month, from section 1.a}) \times (0.002 \text{ lb OC/lb SMC})^*$$

$$\text{total OC emissions (tons/month)} = [\text{OC emissions (preheated)} + \text{OC emissions (non-preheated)}] / 2000$$

*Emission factors were supplied by permittee and were based on emission testing.
 - e. the rolling, 12-month summation of the monthly SMC usage rates, in pounds, for the non-preheated, preheated, and total (preheated and non-preheated) SMC usages, and the rolling, 12-month summation of the monthly OC emission rates, in tons.
2. In order to demonstrate compliance with the usage restrictions in condition A.II.2 and the allowable OC emission limitation of 28.3 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
 - a. the company identification of each type of scrap SMC generated;
 - b. the total mass of scrap SMC generated, in pounds;
 - c. the styrene content of each type of scrap SMC generated, in %, by weight;
 - d. the weight, in pounds, of each type of scrap SMC generated;

- e. the calculated average styrene content for all the scrap SMC generated, in weight % (summation of 2.c x 2.d, divided by the summation of 2.d for all SMC material, and multiplied by 100%) ;
- f. the total mass of OC emissions generated by all molding presses (b x e x 0.40 volatilization factor*), in pounds; and
 *Emission factor supplied by permittee and was based on emission testing.
- g. the rolling, 12-month summation of the SMC scrap generation, in pounds, and the rolling, 12-month summation of monthly OC emissions, in tons.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all exceedances the rolling, 12-month OC emission limitation of 58.1 tons (for SMC compression molding from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
2. The permittee shall submit deviation (excursion) reports that identify all exceedances of the rolling, 12-month OC emission limitation of 28.3 tons (for scrap generation from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
3. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC usage restrictions of 2,000,000 lbs of preheated SMC, 56,600,000 lbs of non-preheated SMC, and 56,600,000 lbs of all SMC combined (preheated and non-preheated) [from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined]. These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
4. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC scrap generation restriction of 56,600,000 lbs (from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
5. The permittee shall submit annual reports that specify the total OC emissions from SMC compression molding, the total OC emissions from scrap generation, the total SMC usage (preheated, non-preheated and combined)[in pounds], and the total scrap SMC generated (in pounds) for the previous calendar year. These reports shall be submitted by January 31 of each year, and shall cover the previous calendar year.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. Compliance with the emission limitation in Section A.I. of these terms and conditions shall be determined in accordance with the following method:
 - a. Emission Limitations:
 1.12 lbs OC/hour and 3.90 tons OC/year (molding only)

 Applicable Compliance Method:
 Compliance with the hourly allowable OC emission limitation may be determined by multiplying the maximum hourly SMC usage rate (lbs/hr) by a worst-case emission factor of 0.0035 pounds of OC per pound of SMC.*

 *Emission factor supplied by permittee and was based on emission testing.

 Compliance with the annual emission limitation may be determined as follows:
 - i. multiply the maximum annual usage rate of preheated SMC (2,000,000 lbs/year) by a worst-case emission factor of 0.0035 lb OC/lb of SMC for preheated materials;
 - ii. multiply the maximum annual usage rate of non-preheated SMC (400,000 lbs/year) by a worst case emission factor of 0.002 lb OC/lb of SMC for non-preheated materials; and
 - iii. sum i. and ii. and then divide by 2000.
 - b. Emission Limitation:
 OC emissions for sheet molding compound (SMC) usage shall not exceed 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).

 Applicable Compliance Method:
 Compliance shall be based on the record keeping requirements specified in section A.III.1. of this permit.

- c. Emission Limitation:
 OC emissions for scrap generation shall not exceed 28.30 tons OC per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).

Applicable Compliance Method:
 Compliance shall be based upon the record keeping requirements specified in section A.III.2. of this permit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: P008 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

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

- 1. None.

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

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

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: P009 Issuance type: Title V Preliminary Proposed Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
compression sheet molding press #2	OAC rule 3745-31-05 (PTI #03-13557)	compression molding- 2.38 lbs organic compound (OC)/hour, 6.60 tons OC/year (See A.I.2.a and A.I.2.c.)
	OAC rule 3745-31-02(A) (PTI #03-13557)	combined limit of 58.1 tons OC/rolling, 12-month period (See A.I.2.b.)
		scrap generation- combined limit of 28.30 tons OC/rolling, 12-month period (See A.I.2.b.)

2. Additional Terms and Conditions

- a. The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-02(A) (2).
- b. The permittee has requested federally enforceable combined emission limitations for compression molding and scrap generation from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038. The federally enforceable emission limitations are based on sheet molding compound (SMC) usage restrictions (see A.II.1) and are being established for the purposes of maintaining the facility's status as a PSD "minor".
- c. The 2.38 lbs OC/hr and 6.60 tons OC/year emission limitations were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and reporting requirements to ensure compliance with these limitations.
- d. This emissions unit is not subject to the requirements specified in OAC rule 3745-21-07(G) because no liquid organic material, as defined in OAC rule 3745-21-01(C)(3), enters the SMC press as a separate raw material.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. The maximum annual SMC usage for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed any of the following:
 - a. 2,000,000 lbs of preheated SMC;*
 - b. 56,600,000 lbs of non-preheated SMC;* and
 - c. 56,600,000 lbs of all SMC, combined (preheated and non-preheated).*

*The annual SMC usage restriction shall be based upon a rolling, 12-month summation of the monthly SMC input rates.
2. The maximum annual scrap generation for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed 56,600,000 lbs per rolling, 12-month period.

3. Raw scrap SMC shall be collected, at a minimum, every eight hours (i.e., at the end of each shift), weighed and placed in a closed container to minimize volatilization of additional styrene.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. In order to demonstrate compliance with the usage restrictions in condition A.II.1. and the allowable OC emission limitation of 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
 - a. the total mass of raw SMC used in all compression molding presses, non-preheated, in pounds;
 - b. the total mass of raw SMC preheated before use in all compression molding presses, in pounds;
 - c. the total mass of raw SMC used in all compression molding presses (a + b), in pounds;
 - d. the calculated OC emissions, in pounds, using the following equations;

$$\text{OC emissions (preheated)} = (\text{lbs/month, from section 1.b}) \times (0.0035 \text{ lb OC/lb SMC})^*$$

$$\text{OC emissions (non-preheated)} = (\text{lbs/month, from section 1.a}) \times (0.002 \text{ lb OC/lb SMC})^*$$

$$\text{total OC emissions (tons/month)} = [\text{OC emissions (preheated)} + \text{OC emissions (non-preheated)}] / 2000$$

*Emission factors were supplied by permittee and were based on emission testing.
 - e. the rolling, 12-month summation of the monthly SMC usage rates, in pounds, for the non-preheated, preheated, and total (preheated and non-preheated) SMC usages, and the rolling, 12-month summation of the monthly OC emission rates, in tons.
2. In order to demonstrate compliance with the usage restrictions in condition A.II.2 and the allowable OC emission limitation of 28.3 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
 - a. the company identification of each type of scrap SMC generated;
 - b. the total mass of scrap SMC generated, in pounds;
 - c. the styrene content of each type of scrap SMC generated, in %, by weight;
 - d. the weight, in pounds, of each type of scrap SMC generated;
 - e. the calculated average styrene content for all the scrap SMC generated, in weight % (summation of 2.c x 2.d, divided by the summation of 2.d for all SMC material, and multiplied by 100%) ;
 - f. the total mass of OC emissions generated by all molding presses (b x e x 0.40 volatilization factor*), in pounds; and

*Emission factor supplied by permittee and was based on emission testing.
 - g. the rolling, 12-month summation of the SMC scrap generation, in pounds, and the rolling, 12-month summation of monthly OC emissions, in tons.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all exceedances the rolling, 12-month OC emission limitation of 58.1 tons (for SMC compression molding from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
2. The permittee shall submit deviation (excursion) reports that identify all exceedances of the rolling, 12-month OC emission limitation of 28.3 tons (for scrap generation from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and

Conditions of this permit.

3. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC usage restrictions of 2,000,000 lbs of preheated SMC, 56,600,000 lbs of non-preheated SMC, and 56,600,000 lbs of all SMC combined (preheated and non-preheated) [from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined]. These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
4. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC scrap generation restriction of 56,600,000 lbs (from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
5. The permittee shall submit annual reports that specify the total OC emissions from SMC compression molding, the total OC emissions from scrap generation, the total SMC usage (preheated, non-preheated and combined)[in pounds], and the total scrap SMC generated (in pounds) for the previous calendar year. These reports shall be submitted by January 31 of each year, and shall cover the previous calendar year.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

1. Compliance with the emission limitation in Section A.I. of these terms and conditions shall be determined in accordance with the following method:
 - a. Emission Limitations:
2.38 lbs OC/hour and 6.60 tons OC/year (molding only)

Applicable Compliance Method:
Compliance with the hourly allowable OC emission limitation may be determined by multiplying the maximum hourly SMC usage rate (lbs/hr) by a worst-case emission factor of 0.0035 pounds of OC per pound of SMC.*

*Emission factor supplied by permittee and was based on emission testing.

Compliance with the annual emission limitation may be determined as follows:

 - i. multiply the maximum annual usage rate of preheated SMC (2,000,000 lbs/year) by a worst-case emission factor of 0.0035 lb OC/lb of SMC for preheated materials;
 - ii. multiply the maximum annual usage rate of non-preheated SMC (3,100,000 lbs/year) by a worst case emission factor of 0.002 lb OC/lb of SMC for non-preheated materials; and
 - iii. sum i. and ii. and then divide by 2000.
 - b. Emission Limitation:
OC emissions for sheet molding compound (SMC) usage shall not exceed 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).

Applicable Compliance Method:
Compliance shall be based on the record keeping requirements specified in section A.III.1. of this permit.
 - c. Emission Limitation:
OC emissions for scrap generation shall not exceed 28.30 tons OC per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirements specified in section A.III.2. of this permit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: P009 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions		
1. None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: P010 Issuance type: Title V Preliminary Proposed Permit

A. State and Federally Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
compression sheet molding press #3	OAC rule 3745-31-05 (PTI #03-13557)	compression molding- 2.17 lbs organic compound (OC)/hour, 6.15 tons OC/year (See A.I.2.a and A.I.2.c.)
	OAC rule 3745-31-02(A) (PTI #03-13557)	combined limit of 58.1 tons OC/rolling, 12-month period (See A.I.2.b.)
		scrap generation- combined limit of 28.30 tons OC/rolling, 12-month period (See A.I.2.b.)

2. **Additional Terms and Conditions**

- a. The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-02(A) (2).
- b. The permittee has requested federally enforceable combined emission limitations for compression molding and scrap generation from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038. The federally enforceable emission limitations are based on sheet molding compound (SMC) usage restrictions (see A.II.1) and are being established for the purposes of maintaining the facility's status as a PSD "minor".
- c. The 2.17 lbs OC/hr and 6.15 tons OC/year emission limitations were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and reporting requirements to ensure compliance with these limitations.
- d. This emissions unit is not subject to the requirements specified in OAC rule 3745-21-07(G) because no liquid organic material, as defined in OAC rule 3745-21-01(C)(3), enters the SMC press as a separate raw material.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

1. The maximum annual SMC usage for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed any of the following:
 - a. 2,000,000 lbs of preheated SMC;*
 - b. 56,600,000 lbs of non-preheated SMC;* and
 - c. 56,600,000 lbs of all SMC, combined (preheated and non-preheated).*

*The annual SMC usage restriction shall be based upon a rolling, 12-month summation of the monthly SMC input rates.
2. The maximum annual scrap generation for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed 56,600,000 lbs per rolling, 12-month period.
3. Raw scrap SMC shall be collected, at a minimum, every eight hours (i.e., at the end of each shift), weighed and placed in a closed container to minimize volatilization of additional styrene.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

1. In order to demonstrate compliance with the usage restrictions in condition A.II.1. and the allowable OC emission limitation of 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
 - a. the total mass of raw SMC used in all compression molding presses, non-preheated, in pounds;
 - b. the total mass of raw SMC preheated before use in all compression molding presses, in pounds;
 - c. the total mass of raw SMC used in all compression molding presses (a + b), in pounds;
 - d. the calculated OC emissions, in pounds, using the following equations:

$$\text{OC emissions (preheated)} = (\text{lbs/month, from section 1.b}) \times (0.0035 \text{ lb OC/lb SMC})^*$$

OC emissions (non-preheated) = (lbs/month, from section 1.a) x (0.002 lb OC/lb SMC)*

total OC emissions (tons/month) = [OC emissions (preheated) + OC emissions (non-preheated)] / 2000

*Emission factors were supplied by permittee and were based on emission testing.

- e. the rolling, 12-month summation of the monthly SMC usage rates, in pounds, for the non-preheated, preheated, and total (preheated and non-preheated) SMC usages, and the rolling, 12-month summation of the monthly OC emission rates, in tons.
2. In order to demonstrate compliance with the usage restrictions in condition A.II.2 and the allowable OC emission limitation of 28.3 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
 - a. the company identification of each type of scrap SMC generated;
 - b. the total mass of scrap SMC generated, in pounds;
 - c. the styrene content of each type of scrap SMC generated, in %, by weight;
 - d. the weight, in pounds, of each type of scrap SMC generated;
 - e. the calculated average styrene content for all the scrap SMC generated, in weight % (summation of 2.c x 2.d, divided by the summation of 2.d for all SMC material, and multiplied by 100%) ;
 - f. the total mass of OC emissions generated by all molding presses (b x e x 0.40 volatilization factor*), in pounds; and

*Emission factor supplied by permittee and was based on emission testing.
 - g. the rolling, 12-month summation of the SMC scrap generation, in pounds, and the rolling, 12-month summation of monthly OC emissions, in tons.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all exceedances the rolling, 12-month OC emission limitation of 58.1 tons (for SMC compression molding from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
2. The permittee shall submit deviation (excursion) reports that identify all exceedances of the rolling, 12-month OC emission limitation of 28.3 tons (for scrap generation from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
3. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC usage restrictions of 2,000,000 lbs of preheated SMC, 56,600,000 lbs of non-preheated SMC, and 56,600,000 lbs of all SMC combined (preheated and non-preheated) [from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined]. These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
4. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC scrap generation restriction of 56,600,000 lbs (from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
5. The permittee shall submit annual reports that specify the total OC emissions from SMC compression molding, the total OC emissions from scrap generation, the total SMC usage (preheated, non-preheated and combined)[in pounds], and the total scrap SMC generated (in pounds) for the previous calendar year. These reports shall be submitted by January 31 of each year, and shall cover the previous calendar year.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

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

- a. Emission Limitations:
2.17 lbs OC/hour and 6.15 tons OC/year (molding only)

Applicable Compliance Method:
Compliance with the hourly allowable OC emission limitation may be determined by multiplying the maximum hourly SMC usage rate (lbs/hr) by a worst-case emission factor of 0.0035 pounds of OC per pound of SMC.*

*Emission factor supplied by permittee and was based on emission testing.

Compliance with the annual emission limitation may be determined as follows:

i. multiply the maximum annual usage rate of preheated SMC (2,000,000 lbs/year) by a worst-case emission factor of 0.0035 lb OC/lb of SMC for preheated materials;

ii. multiply the maximum annual usage rate of non-preheated SMC (2,650,000 lbs/year) by a worst case emission factor of 0.002 lb OC/lb of SMC for non-preheated materials; and

iii. sum i. and ii. and then divide by 2000.
- b. Emission Limitation:
OC emissions for sheet molding compound (SMC) usage shall not exceed 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).

Applicable Compliance Method:
Compliance shall be based on the record keeping requirements specified in section A.III.1. of this permit.
- c. Emission Limitation:
OC emissions for scrap generation shall not exceed 28.30 tons OC per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirements specified in section A.III.2. of this permit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: P010 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

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

- 1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
---	--------------------------------------	--

2. **Additional Terms and Conditions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: P011 Issuance type: Title V Preliminary Proposed Permit

A. State and Federally Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
compression sheet molding press #4	OAC rule 3745-31-05 (PTI #03-13557)	compression molding- 1.05 lbs organic compound (OC)/hour, 3.75 tons OC/year (See A.I.2.a and A.I.2.c.)
	OAC rule 3745-31-02(A) (PTI #03-13557)	combined limit of 58.1 tons OC/rolling, 12-month period (See A.I.2.b.)
		scrap generation- combined limit of 28.30 tons OC/rolling, 12-month period (See A.I.2.b.)

2. Additional Terms and Conditions

- a. The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-02(A) (2).
- b. The permittee has requested federally enforceable combined emission limitations for compression molding and scrap generation from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038. The federally enforceable emission limitations are based on sheet molding compound (SMC) usage restrictions (see A.II.1) and are being established for the purposes of maintaining the facility's status as a PSD "minor".
- c. The 1.05 lbs OC/hr and 3.75 tons OC/year emission limitations were established for PTI purposes to

reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and reporting requirements to ensure compliance with these limitations.

- d. This emissions unit is not subject to the requirements specified in OAC rule 3745-21-07(G) because no liquid organic material, as defined in OAC rule 3745-21-01(C)(3), enters the SMC press as a separate raw material.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. The maximum annual SMC usage for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed any of the following:
 - a. 2,000,000 lbs of preheated SMC;*
 - b. 56,600,000 lbs of non-preheated SMC;* and
 - c. 56,600,000 lbs of all SMC, combined (preheated and non-preheated).*

*The annual SMC usage restriction shall be based upon a rolling, 12-month summation of the monthly SMC input rates.
2. The maximum annual scrap generation for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed 56,600,000 lbs per rolling, 12-month period.
3. Raw scrap SMC shall be collected, at a minimum, every eight hours (i.e., at the end of each shift), weighed and placed in a closed container to minimize volatilization of additional styrene.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. In order to demonstrate compliance with the usage restrictions in condition A.II.1. and the allowable OC emission limitation of 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
 - a. the total mass of raw SMC used in all compression molding presses, non-preheated, in pounds;
 - b. the total mass of raw SMC preheated before use in all compression molding presses, in pounds;
 - c. the total mass of raw SMC used in all compression molding presses (a + b), in pounds;
 - d. the calculated OC emissions, in pounds, using the following equations;

$$\text{OC emissions (preheated)} = (\text{lbs/month, from section 1.b}) \times (0.0035 \text{ lb OC/lb SMC})^*$$

$$\text{OC emissions (non-preheated)} = (\text{lbs/month, from section 1.a}) \times (0.002 \text{ lb OC/lb SMC})^*$$

$$\text{total OC emissions (tons/month)} = [\text{OC emissions (preheated)} + \text{OC emissions (non-preheated)}] / 2000$$

*Emission factors were supplied by permittee and were based on emission testing.
 - e. the rolling, 12-month summation of the monthly SMC usage rates, in pounds, for the non-preheated, preheated, and total (preheated and non-preheated) SMC usages, and the rolling, 12-month summation of the monthly OC emission rates, in tons.
2. In order to demonstrate compliance with the usage restrictions in condition A.II.2 and the allowable OC emission limitation of 28.3 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
 - a. the company identification of each type of scrap SMC generated;
 - b. the total mass of scrap SMC generated, in pounds;
 - c. the styrene content of each type of scrap SMC generated, in %, by weight;
 - d. the weight, in pounds, of each type of scrap SMC generated;
 - e. the calculated average styrene content for all the scrap SMC generated, in weight % (summation of 2.c x

- 2.d, divided by the summation of 2.d for all SMC material, and multiplied by 100%);
- f. the total mass of OC emissions generated by all molding presses ($b \times e \times 0.40$ volatilization factor*), in pounds; and
- *Emission factor supplied by permittee and was based on emission testing.
- g. the rolling, 12-month summation of the SMC scrap generation, in pounds, and the rolling, 12-month summation of monthly OC emissions, in tons.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all exceedances the rolling, 12-month OC emission limitation of 58.1 tons (for SMC compression molding from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
2. The permittee shall submit deviation (excursion) reports that identify all exceedances of the rolling, 12-month OC emission limitation of 28.3 tons (for scrap generation from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
3. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC usage restrictions of 2,000,000 lbs of preheated SMC, 56,600,000 lbs of non-preheated SMC, and 56,600,000 lbs of all SMC combined (preheated and non-preheated) [from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined]. These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
4. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC scrap generation restriction of 56,600,000 lbs (from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
5. The permittee shall submit annual reports that specify the total OC emissions from SMC compression molding, the total OC emissions from scrap generation, the total SMC usage (preheated, non-preheated and combined)[in pounds], and the total scrap SMC generated (in pounds) for the previous calendar year. These reports shall be submitted by January 31 of each year, and shall cover the previous calendar year.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. Compliance with the emission limitation in Section A.I. of these terms and conditions shall be determined in accordance with the following method:
 - a. Emission Limitations:

1.05 lbs OC/hour and 3.75 tons OC/year (molding only)

Applicable Compliance Method:
Compliance with the hourly allowable OC emission limitation may be determined by multiplying the maximum hourly SMC usage rate (lbs/hr) by a worst-case emission factor of 0.0035 pounds of OC per pound of SMC.*

*Emission factor supplied by permittee and was based on emission testing.

Compliance with the annual emission limitation may be determined as follows:

 - i. multiply the maximum annual usage rate of preheated SMC (2,000,000 lbs/year) by a worst-case emission factor of 0.0035 lb OC/lb of SMC for preheated materials;
 - ii. multiply the maximum annual usage rate of non-preheated SMC (250,000 lbs/year) by a worst case emission factor of 0.002 lb OC/lb of SMC for non-preheated materials; and
 - iii. sum i. and ii. and then divide by 2000.
 - b. Emission Limitation:

OC emissions for sheet molding compound (SMC) usage shall not exceed 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).

Applicable Compliance Method:
Compliance shall be based on the record keeping requirements specified in section A.III.1. of this permit.

- c. Emission Limitation:
 OC emissions for scrap generation shall not exceed 28.30 tons OC per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).

Applicable Compliance Method:
 Compliance shall be based upon the record keeping requirements specified in section A.III.2. of this permit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 0388000002 Issuance type: Title V Preliminary Proposed Permit

[Go to the top of this document](#)

Facility ID: 0388000002 Emissions Unit ID: P011 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

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

- 1. None.

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

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

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: P012 Issuance type: Title V Preliminary Proposed Permit

A. **State and Federally Enforceable Section**

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

1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
compression sheet molding press #5	OAC rule 3745-31-05 (PTI #03-13557)	compression molding- 2.03 lbs organic compound (OC)/hour, 5.85 tons OC/year (See A.1.2.a and A.1.2.c.)
	OAC rule 3745-31-02(A) (PTI #03-13557)	combined limit of 58.1 tons OC/rolling, 12-month period (See A.1.2.b.) scrap generation- combined limit of 28.30 tons OC/rolling, 12-month period (See A.1.2.b.)

2. **Additional Terms and Conditions**

- a. The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-02(A) (2).
- b. The permittee has requested federally enforceable combined emission limitations for compression molding and scrap generation from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038. The federally enforceable emission limitations are based on sheet molding compound (SMC) usage restrictions (see A.II.1) and are being established for the purposes of maintaining the facility's status as a PSD "minor".
- c. The 2.03 lbs OC/hr and 5.85 tons OC/year emission limitations were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and reporting requirements to ensure compliance with these limitations.
- d. This emissions unit is not subject to the requirements specified in OAC rule 3745-21-07(G) because no liquid organic material, as defined in OAC rule 3745-21-01(C)(3), enters the SMC press as a separate raw material.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

II. **Operational Restrictions**

1. The maximum annual SMC usage for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed any of the following:
 - a. 2,000,000 lbs of preheated SMC;*
 - b. 56,600,000 lbs of non-preheated SMC;* and
 - c. 56,600,000 lbs of all SMC, combined (preheated and non-preheated).*

*The annual SMC usage restriction shall be based upon a rolling, 12-month summation of the monthly SMC input rates.
2. The maximum annual scrap generation for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed 56,600,000 lbs per rolling, 12-month period.

3. Raw scrap SMC shall be collected, at a minimum, every eight hours (i.e., at the end of each shift), weighed and placed in a closed container to minimize volatilization of additional styrene.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. In order to demonstrate compliance with the usage restrictions in condition A.II.1. and the allowable OC emission limitation of 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
 - a. the total mass of raw SMC used in all compression molding presses, non-preheated, in pounds;
 - b. the total mass of raw SMC preheated before use in all compression molding presses, in pounds;
 - c. the total mass of raw SMC used in all compression molding presses (a + b), in pounds;
 - d. the calculated OC emissions, in pounds, using the following equations:

$$\text{OC emissions (preheated)} = (\text{lbs/month, from section 1.b}) \times (0.0035 \text{ lb OC/lb SMC})^*$$

$$\text{OC emissions (non-preheated)} = (\text{lbs/month, from section 1.a}) \times (0.002 \text{ lb OC/lb SMC})^*$$

$$\text{total OC emissions (tons/month)} = [\text{OC emissions (preheated)} + \text{OC emissions (non-preheated)}] / 2000$$

*Emission factors were supplied by permittee and were based on emission testing.
 - e. the rolling, 12-month summation of the monthly SMC usage rates, in pounds, for the non-preheated, preheated, and total (preheated and non-preheated) SMC usages, and the rolling, 12-month summation of the monthly OC emission rates, in tons.
2. In order to demonstrate compliance with the usage restrictions in condition A.II.2 and the allowable OC emission limitation of 28.3 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
 - a. the company identification of each type of scrap SMC generated;
 - b. the total mass of scrap SMC generated, in pounds;
 - c. the styrene content of each type of scrap SMC generated, in %, by weight;
 - d. the weight, in pounds, of each type of scrap SMC generated;
 - e. the calculated average styrene content for all the scrap SMC generated, in weight % (summation of 2.c x 2.d, divided by the summation of 2.d for all SMC material, and multiplied by 100%) ;
 - f. the total mass of OC emissions generated by all molding presses (b x e x 0.40 volatilization factor*), in pounds; and

*Emission factor supplied by permittee and was based on emission testing.
 - g. the rolling, 12-month summation of the SMC scrap generation, in pounds, and the rolling, 12-month summation of monthly OC emissions, in tons.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all exceedances the rolling, 12-month OC emission limitation of 58.1 tons (for SMC compression molding from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
2. The permittee shall submit deviation (excursion) reports that identify all exceedances of the rolling, 12-month OC emission limitation of 28.3 tons (for scrap generation from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and

Conditions of this permit.

3. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC usage restrictions of 2,000,000 lbs of preheated SMC, 56,600,000 lbs of non-preheated SMC, and 56,600,000 lbs of all SMC combined (preheated and non-preheated) [from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined]. These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
4. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC scrap generation restriction of 56,600,000 lbs (from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
5. The permittee shall submit annual reports that specify the total OC emissions from SMC compression molding, the total OC emissions from scrap generation, the total SMC usage (preheated, non-preheated and combined)[in pounds], and the total scrap SMC generated (in pounds) for the previous calendar year. These reports shall be submitted by January 31 of each year, and shall cover the previous calendar year.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

1. Compliance with the emission limitation in Section A.I. of these terms and conditions shall be determined in accordance with the following method:
 - a. Emission Limitations:
2.03 lbs OC/hour and 5.85 tons OC/year (molding only)

Applicable Compliance Method:
Compliance with the hourly allowable OC emission limitation may be determined by multiplying the maximum hourly SMC usage rate (lbs/hr) by a worst-case emission factor of 0.0035 pounds of OC per pound of SMC.*

*Emission factor supplied by permittee and was based on emission testing.

Compliance with the annual emission limitation may be determined as follows:

 - i. multiply the maximum annual usage rate of preheated SMC (2,000,000 lbs/year) by a worst-case emission factor of 0.0035 lb OC/lb of SMC for preheated materials;
 - ii. multiply the maximum annual usage rate of non-preheated SMC (2,350,000 lbs/year) by a worst case emission factor of 0.002 lb OC/lb of SMC for non-preheated materials; and
 - iii. sum i. and ii. and then divide by 2000.
 - b. Emission Limitation:
OC emissions for sheet molding compound (SMC) usage shall not exceed 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).

Applicable Compliance Method:
Compliance shall be based on the record keeping requirements specified in section A.III.1. of this permit.
 - c. Emission Limitation:
OC emissions for scrap generation shall not exceed 28.30 tons OC per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirements specified in section A.III.2. of this permit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: P012 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions		
1. None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: P013 Issuance type: Title V Preliminary Proposed Permit

A. State and Federally Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
compression sheet molding press #6	OAC rule 3745-31-05 (PTI #03-13557) OAC rule 3745-31-02(A) (PTI #03-13557)	compression molding- 2.10 lbs organic compound (OC)/hour, 6.0 tons OC/year (See A.I.2.a and A.I.2.c.) combined limit of 58.1 tons OC/rolling, 12-month period (See A.I.2.b.) scrap generation- combined limit of 28.30 tons OC/rolling, 12-month period (See A.I.2.b.)

2. **Additional Terms and Conditions**

- a. The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-02(A) (2).
- b. The permittee has requested federally enforceable combined emission limitations for compression molding and scrap generation from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038. The federally enforceable emission limitations are based on sheet molding compound (SMC) usage restrictions (see A.II.1) and are being established for the purposes of maintaining the facility's status as a PSD "minor".
- c. The 2.10 lbs OC/hr and 6.0 tons OC/year emission limitations were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and reporting requirements to ensure compliance with these limitations.
- d. This emissions unit is not subject to the requirements specified in OAC rule 3745-21-07(G) because no liquid organic material, as defined in OAC rule 3745-21-01(C)(3), enters the SMC press as a separate raw material.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

1. The maximum annual SMC usage for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed any of the following:
 - a. 2,000,000 lbs of preheated SMC;*
 - b. 56,600,000 lbs of non-preheated SMC;* and
 - c. 56,600,000 lbs of all SMC, combined (preheated and non-preheated).*

*The annual SMC usage restriction shall be based upon a rolling, 12-month summation of the monthly SMC input rates.
2. The maximum annual scrap generation for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed 56,600,000 lbs per rolling, 12-month period.
3. Raw scrap SMC shall be collected, at a minimum, every eight hours (i.e., at the end of each shift), weighed and placed in a closed container to minimize volatilization of additional styrene.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

1. In order to demonstrate compliance with the usage restrictions in condition A.II.1. and the allowable OC emission limitation of 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
 - a. the total mass of raw SMC used in all compression molding presses, non-preheated, in pounds;
 - b. the total mass of raw SMC preheated before use in all compression molding presses, in pounds;
 - c. the total mass of raw SMC used in all compression molding presses (a + b), in pounds;
 - d. the calculated OC emissions, in pounds, using the following equations:

OC emissions (preheated) = (lbs/month, from section 1.b) x (0.0035 lb OC/lb SMC)*

OC emissions (non-preheated) = (lbs/month, from section 1.a) x (0.002 lb OC/lb SMC)*

total OC emissions (tons/month) = [OC emissions (preheated) + OC emissions (non-preheated)] / 2000

*Emission factors were supplied by permittee and were based on emission testing.

- e. the rolling, 12-month summation of the monthly SMC usage rates, in pounds, for the non-preheated, preheated, and total (preheated and non-preheated) SMC usages, and the rolling, 12-month summation of the monthly OC emission rates, in tons.
2. In order to demonstrate compliance with the usage restrictions in condition A.II.2 and the allowable OC emission limitation of 28.3 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
 - a. the company identification of each type of scrap SMC generated;
 - b. the total mass of scrap SMC generated, in pounds;
 - c. the styrene content of each type of scrap SMC generated, in %, by weight;
 - d. the weight, in pounds, of each type of scrap SMC generated;
 - e. the calculated average styrene content for all the scrap SMC generated, in weight % (summation of 2.c x 2.d, divided by the summation of 2.d for all SMC material, and multiplied by 100%) ;
 - f. the total mass of OC emissions generated by all molding presses (b x e x 0.40 volatilization factor*), in pounds; and

*Emission factor supplied by permittee and was based on emission testing.
 - g. the rolling, 12-month summation of the SMC scrap generation, in pounds, and the rolling, 12-month summation of monthly OC emissions, in tons.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all exceedances the rolling, 12-month OC emission limitation of 58.1 tons (for SMC compression molding from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
2. The permittee shall submit deviation (excursion) reports that identify all exceedances of the rolling, 12-month OC emission limitation of 28.3 tons (for scrap generation from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
3. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC usage restrictions of 2,000,000 lbs of preheated SMC, 56,600,000 lbs of non-preheated SMC, and 56,600,000 lbs of all SMC combined (preheated and non-preheated) [from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined]. These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
4. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC scrap generation restriction of 56,600,000 lbs (from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
5. The permittee shall submit annual reports that specify the total OC emissions from SMC compression molding, the total OC emissions from scrap generation, the total SMC usage (preheated, non-preheated and combined)(in pounds), and the total scrap SMC generated (in pounds) for the previous calendar year. These reports shall be submitted by January 31 of each year, and shall cover the previous calendar year.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. Compliance with the emission limitation in Section A.I. of these terms and conditions shall be determined in accordance with the following method:
 - a. Emission Limitations:

2.10 lbs OC/hour and 6.0 tons OC/year (molding only)

Applicable Compliance Method:
Compliance with the hourly allowable OC emission limitation may be determined by multiplying the maximum hourly SMC usage rate (lbs/hr) by a worst-case emission factor of 0.0035 pounds of OC per pound of SMC.*

*Emission factor supplied by permittee and was based on emission testing.

Compliance with the annual emission limitation may be determined as follows:

- i. multiply the maximum annual usage rate of preheated SMC (2,000,000 lbs/year) by a worst-case emission factor of 0.0035 lb OC/lb of SMC for preheated materials;
- ii. multiply the maximum annual usage rate of non-preheated SMC (2,500,000 lbs/year) by a worst case emission factor of 0.002 lb OC/lb of SMC for non-preheated materials; and
- iii. sum i. and ii. and then divide by 2000.

- b. Emission Limitation:
OC emissions for sheet molding compound (SMC) usage shall not exceed 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).

Applicable Compliance Method:
Compliance shall be based on the record keeping requirements specified in section A.III.1. of this permit.

- c. Emission Limitation:
OC emissions for scrap generation shall not exceed 28.30 tons OC per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirements specified in section A.III.2. of this permit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: P013 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

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

- 1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
---	--------------------------------------	--

2. **Additional Terms and Conditions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: P014 Issuance type: Title V Preliminary Proposed Permit

A. State and Federally Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
compression sheet molding press #7	OAC rule 3745-31-05 (PTI #03-13557)	compression molding- 1.75 lbs organic compound (OC)/hour, 5.25 tons OC/year (See A.I.2.a and A.I.2.c.)
	OAC rule 3745-31-02(A) (PTI #03-13557)	combined limit of 58.1 tons OC/rolling, 12-month period (See A.I.2.b.)
		scrap generation- combined limit of 28.30 tons OC/rolling, 12-month period (See A.I.2.b.)

2. Additional Terms and Conditions

- a. The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-02(A) (2).
- b. The permittee has requested federally enforceable combined emission limitations for compression molding and scrap generation from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038. The federally enforceable emission limitations are based on sheet molding compound (SMC) usage restrictions (see A.II.1) and are being established for the purposes of maintaining the facility's status as a PSD "minor".
- c. The 1.75 lbs OC/hr and 5.25 tons OC/year emission limitations were established for PTI purposes to

reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and reporting requirements to ensure compliance with these limitations.

- d. This emissions unit is not subject to the requirements specified in OAC rule 3745-21-07(G) because no liquid organic material, as defined in OAC rule 3745-21-01(C)(3), enters the SMC press as a separate raw material.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. The maximum annual SMC usage for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed any of the following:
 - a. 2,000,000 lbs of preheated SMC;*
 - b. 56,600,000 lbs of non-preheated SMC;* and
 - c. 56,600,000 lbs of all SMC, combined (preheated and non-preheated).*

*The annual SMC usage restriction shall be based upon a rolling, 12-month summation of the monthly SMC input rates.
2. The maximum annual scrap generation for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed 56,600,000 lbs per rolling, 12-month period.
3. Raw scrap SMC shall be collected, at a minimum, every eight hours (i.e., at the end of each shift), weighed and placed in a closed container to minimize volatilization of additional styrene.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. In order to demonstrate compliance with the usage restrictions in condition A.II.1. and the allowable OC emission limitation of 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
 - a. the total mass of raw SMC used in all compression molding presses, non-preheated, in pounds;
 - b. the total mass of raw SMC preheated before use in all compression molding presses, in pounds;
 - c. the total mass of raw SMC used in all compression molding presses (a + b), in pounds;
 - d. the calculated OC emissions, in pounds, using the following equations;

$$\text{OC emissions (preheated)} = (\text{lbs/month, from section 1.b}) \times (0.0035 \text{ lb OC/lb SMC})^*$$

$$\text{OC emissions (non-preheated)} = (\text{lbs/month, from section 1.a}) \times (0.002 \text{ lb OC/lb SMC})^*$$

$$\text{total OC emissions (tons/month)} = [\text{OC emissions (preheated)} + \text{OC emissions (non-preheated)}] / 2000$$

*Emission factors were supplied by permittee and were based on emission testing.
 - e. the rolling, 12-month summation of the monthly SMC usage rates, in pounds, for the non-preheated, preheated, and total (preheated and non-preheated) SMC usages, and the rolling, 12-month summation of the monthly OC emission rates, in tons.
2. In order to demonstrate compliance with the usage restrictions in condition A.II.2 and the allowable OC emission limitation of 28.3 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
 - a. the company identification of each type of scrap SMC generated;
 - b. the total mass of scrap SMC generated, in pounds;
 - c. the styrene content of each type of scrap SMC generated, in %, by weight;
 - d. the weight, in pounds, of each type of scrap SMC generated;
 - e. the calculated average styrene content for all the scrap SMC generated, in weight % (summation of 2.c x

- 2.d, divided by the summation of 2.d for all SMC material, and multiplied by 100%);
- f. the total mass of OC emissions generated by all molding presses (b x e x 0.40 volatilization factor*), in pounds; and
- *Emission factor supplied by permittee and was based on emission testing.
- g. the rolling, 12-month summation of the SMC scrap generation, in pounds, and the rolling, 12-month summation of monthly OC emissions, in tons.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all exceedances the rolling, 12-month OC emission limitation of 58.1 tons (for SMC compression molding from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
2. The permittee shall submit deviation (excursion) reports that identify all exceedances of the rolling, 12-month OC emission limitation of 28.3 tons (for scrap generation from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
3. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC usage restrictions of 2,000,000 lbs of preheated SMC, 56,600,000 lbs of non-preheated SMC, and 56,600,000 lbs of all SMC combined (preheated and non-preheated) [from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined]. These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
4. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC scrap generation restriction of 56,600,000 lbs (from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
5. The permittee shall submit annual reports that specify the total OC emissions from SMC compression molding, the total OC emissions from scrap generation, the total SMC usage (preheated, non-preheated and combined)[in pounds], and the total scrap SMC generated (in pounds) for the previous calendar year. These reports shall be submitted by January 31 of each year, and shall cover the previous calendar year.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. Compliance with the emission limitation in Section A.I. of these terms and conditions shall be determined in accordance with the following method:
 - a. Emission Limitations:

1.75 lbs OC/hour and 5.75 tons OC/year (molding only)

Applicable Compliance Method:
Compliance with the hourly allowable OC emission limitation may be determined by multiplying the maximum hourly SMC usage rate (lbs/hr) by a worst-case emission factor of 0.0035 pounds of OC per pound of SMC.*

*Emission factor supplied by permittee and was based on emission testing.

Compliance with the annual emission limitation may be determined as follows:

 - i. multiply the maximum annual usage rate of preheated SMC (2,000,000 lbs/year) by a worst-case emission factor of 0.0035 lb OC/lb of SMC for preheated materials;
 - ii. multiply the maximum annual usage rate of non-preheated SMC (1,750,000 lbs/year) by a worst case emission factor of 0.002 lb OC/lb of SMC for non-preheated materials; and
 - iii. sum i. and ii. and then divide by 2000.
 - b. Emission Limitation:

OC emissions for sheet molding compound (SMC) usage shall not exceed 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).

Applicable Compliance Method:
Compliance shall be based on the record keeping requirements specified in section A.III.1. of this permit.

- c. Emission Limitation:
OC emissions for scrap generation shall not exceed 28.30 tons OC per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirements specified in section A.III.2. of this permit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 0388000002 Issuance type: Title V Preliminary Proposed Permit

[Go to the top of this document](#)

Facility ID: 0388000002 Emissions Unit ID: P014 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

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

- 1. None.

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

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

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: P015 Issuance type: Title V Preliminary Proposed Permit

A. State and Federally Enforceable Section

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

- 1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
compression sheet molding press #8	OAC rule 3745-31-05 (PTI #03-13557) OAC rule 3745-31-02(A) (PTI #03-13557)	compression molding- 2.10 lbs organic compound (OC)/hour, 6.0 tons OC/year (See A.I.2.a and A.I.2.c.) combined limit of 58.1 tons OC/rolling, 12-month period (See A.I.2.b.) scrap generation- combined limit of 28.30 tons OC/rolling, 12-month period (See A.I.2.b.)

2. **Additional Terms and Conditions**

- a. The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-02(A) (2).
- b. The permittee has requested federally enforceable combined emission limitations for compression molding and scrap generation from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038. The federally enforceable emission limitations are based on sheet molding compound (SMC) usage restrictions (see A.II.1) and are being established for the purposes of maintaining the facility's status as a PSD "minor".
- c. The 2.10 lbs OC/hr and 6.0 tons OC/year emission limitations were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and reporting requirements to ensure compliance with these limitations.
- d. This emissions unit is not subject to the requirements specified in OAC rule 3745-21-07(G) because no liquid organic material, as defined in OAC rule 3745-21-01(C)(3), enters the SMC press as a separate raw material.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

- 1. The maximum annual SMC usage for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed any of the following:
 - a. 2,000,000 lbs of preheated SMC;*
 - b. 56,600,000 lbs of non-preheated SMC;* and
 - c. 56,600,000 lbs of all SMC, combined (preheated and non-preheated).*

*The annual SMC usage restriction shall be based upon a rolling, 12-month summation of the monthly SMC input rates.
- 2. The maximum annual scrap generation for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed 56,600,000 lbs per rolling, 12-month period.
- 3. Raw scrap SMC shall be collected, at a minimum, every eight hours (i.e., at the end of each shift), weighed

and placed in a closed container to minimize volatilization of additional styrene.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. In order to demonstrate compliance with the usage restrictions in condition A.II.1. and the allowable OC emission limitation of 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
 - a. the total mass of raw SMC used in all compression molding presses, non-preheated, in pounds;
 - b. the total mass of raw SMC preheated before use in all compression molding presses, in pounds;
 - c. the total mass of raw SMC used in all compression molding presses (a + b), in pounds;
 - d. the calculated OC emissions, in pounds, using the following equations:

$$\text{OC emissions (preheated)} = (\text{lbs/month, from section 1.b}) \times (0.0035 \text{ lb OC/lb SMC})^*$$

$$\text{OC emissions (non-preheated)} = (\text{lbs/month, from section 1.a}) \times (0.002 \text{ lb OC/lb SMC})^*$$

$$\text{total OC emissions (tons/month)} = [\text{OC emissions (preheated)} + \text{OC emissions (non-preheated)}] / 2000$$

*Emission factors were supplied by permittee and were based on emission testing.
 - e. the rolling, 12-month summation of the monthly SMC usage rates, in pounds, for the non-preheated, preheated, and total (preheated and non-preheated) SMC usages, and the rolling, 12-month summation of the monthly OC emission rates, in tons.
2. In order to demonstrate compliance with the usage restrictions in condition A.II.2 and the allowable OC emission limitation of 28.3 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
 - a. the company identification of each type of scrap SMC generated;
 - b. the total mass of scrap SMC generated, in pounds;
 - c. the styrene content of each type of scrap SMC generated, in %, by weight;
 - d. the weight, in pounds, of each type of scrap SMC generated;
 - e. the calculated average styrene content for all the scrap SMC generated, in weight % (summation of 2.c x 2.d, divided by the summation of 2.d for all SMC material, and multiplied by 100%);
 - f. the total mass of OC emissions generated by all molding presses (b x e x 0.40 volatilization factor*), in pounds; and

*Emission factor supplied by permittee and was based on emission testing.
 - g. the rolling, 12-month summation of the SMC scrap generation, in pounds, and the rolling, 12-month summation of monthly OC emissions, in tons.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all exceedances the rolling, 12-month OC emission limitation of 58.1 tons (for SMC compression molding from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
2. The permittee shall submit deviation (excursion) reports that identify all exceedances of the rolling, 12-month OC emission limitation of 28.3 tons (for scrap generation from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.

3. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC usage restrictions of 2,000,000 lbs of preheated SMC, 56,600,000 lbs of non-preheated SMC, and 56,600,000 lbs of all SMC combined (preheated and non-preheated) [from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined]. These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
4. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC scrap generation restriction of 56,600,000 lbs (from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
5. The permittee shall submit annual reports that specify the total OC emissions from SMC compression molding, the total OC emissions from scrap generation, the total SMC usage (preheated, non-preheated and combined)[in pounds], and the total scrap SMC generated (in pounds) for the previous calendar year. These reports shall be submitted by January 31 of each year, and shall cover the previous calendar year.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

1. Compliance with the emission limitation in Section A.I. of these terms and conditions shall be determined in accordance with the following method:
 - a. Emission Limitations:
2.10 lbs OC/hour and 6.0 tons OC/year (molding only)

Applicable Compliance Method:
Compliance with the hourly allowable OC emission limitation may be determined by multiplying the maximum hourly SMC usage rate (lbs/hr) by a worst-case emission factor of 0.0035 pounds of OC per pound of SMC.*

*Emission factor supplied by permittee and was based on emission testing.

Compliance with the annual emission limitation may be determined as follows:

 - i. multiply the maximum annual usage rate of preheated SMC (2,000,000 lbs/year) by a worst-case emission factor of 0.0035 lb OC/lb of SMC for preheated materials;
 - ii. multiply the maximum annual usage rate of non-preheated SMC (2,500,000 lbs/year) by a worst case emission factor of 0.002 lb OC/lb of SMC for non-preheated materials; and
 - iii. sum i. and ii. and then divide by 2000.
 - b. Emission Limitation:
OC emissions for sheet molding compound (SMC) usage shall not exceed 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).

Applicable Compliance Method:
Compliance shall be based on the record keeping requirements specified in section A.III.1. of this permit.
 - c. Emission Limitation:
OC emissions for scrap generation shall not exceed 28.30 tons OC per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirements specified in section A.III.2. of this permit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: P015 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions		
1. None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: P016 Issuance type: Title V Preliminary Proposed Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall

not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
compression sheet molding press #9	OAC rule 3745-31-05 (PTI #03-13557)	compression molding- 1.61 lbs organic compound (OC)/hour, 4.95 tons OC/year (See A.I.2.a and A.I.2.c.)
	OAC rule 3745-31-02(A) (PTI #03-13557)	combined limit of 58.1 tons OC/rolling, 12-month period (See A.I.2.b.)
		scrap generation- combined limit of 28.30 tons OC/rolling, 12-month period (See A.I.2.b.)

2. Additional Terms and Conditions

- a. The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-02(A) (2).
- b. The permittee has requested federally enforceable combined emission limitations for compression molding and scrap generation from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038. The federally enforceable emission limitations are based on sheet molding compound (SMC) usage restrictions (see A.II.1) and are being established for the purposes of maintaining the facility's status as a PSD "minor".
- c. The 1.61 lbs OC/hr and 4.95 tons OC/year emission limitations were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and reporting requirements to ensure compliance with these limitations.
- d. This emissions unit is not subject to the requirements specified in OAC rule 3745-21-07(G) because no liquid organic material, as defined in OAC rule 3745-21-01(C)(3), enters the SMC press as a separate raw material.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. The maximum annual SMC usage for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed any of the following:
 - a. 2,000,000 lbs of preheated SMC;*
 - b. 56,600,000 lbs of non-preheated SMC;* and
 - c. 56,600,000 lbs of all SMC, combined (preheated and non-preheated).*

*The annual SMC usage restriction shall be based upon a rolling, 12-month summation of the monthly SMC input rates.
2. The maximum annual scrap generation for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed 56,600,000 lbs per rolling, 12-month period.
3. Raw scrap SMC shall be collected, at a minimum, every eight hours (i.e., at the end of each shift), weighed and placed in a closed container to minimize volatilization of additional styrene.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. In order to demonstrate compliance with the usage restrictions in condition A.II.1. and the allowable OC emission limitation of 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
 - a. the total mass of raw SMC used in all compression molding presses, non-preheated, in pounds;
 - b. the total mass of raw SMC preheated before use in all compression molding presses, in pounds;
 - c. the total mass of raw SMC used in all compression molding presses (a + b), in pounds;
 - d. the calculated OC emissions, in pounds, using the following equations:

$$\text{OC emissions (preheated)} = (\text{lbs/month, from section 1.b}) \times (0.0035 \text{ lb OC/lb SMC})^*$$

$$\text{OC emissions (non-preheated)} = (\text{lbs/month, from section 1.a}) \times (0.002 \text{ lb OC/lb SMC})^*$$

total OC emissions (tons/month) = [OC emissions (preheated) + OC emissions (non-preheated)] / 2000

*Emission factors were supplied by permittee and were based on emission testing.

- e. the rolling, 12-month summation of the monthly SMC usage rates, in pounds, for the non-preheated, preheated, and total (preheated and non-preheated) SMC usages, and the rolling, 12-month summation of the monthly OC emission rates, in tons.
2. In order to demonstrate compliance with the usage restrictions in condition A.II.2 and the allowable OC emission limitation of 28.3 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
 - a. the company identification of each type of scrap SMC generated;
 - b. the total mass of scrap SMC generated, in pounds;
 - c. the styrene content of each type of scrap SMC generated, in %, by weight;
 - d. the weight, in pounds, of each type of scrap SMC generated;
 - e. the calculated average styrene content for all the scrap SMC generated, in weight % (summation of 2.c x 2.d, divided by the summation of 2.d for all SMC material, and multiplied by 100%) ;
 - f. the total mass of OC emissions generated by all molding presses (b x e x 0.40 volatilization factor*), in pounds; and

*Emission factor supplied by permittee and was based on emission testing.
 - g. the rolling, 12-month summation of the SMC scrap generation, in pounds, and the rolling, 12-month summation of monthly OC emissions, in tons.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all exceedances the rolling, 12-month OC emission limitation of 58.1 tons (for SMC compression molding from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
2. The permittee shall submit deviation (excursion) reports that identify all exceedances of the rolling, 12-month OC emission limitation of 28.3 tons (for scrap generation from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
3. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC usage restrictions of 2,000,000 lbs of preheated SMC, 56,600,000 lbs of non-preheated SMC, and 56,600,000 lbs of all SMC combined (preheated and non-preheated) [from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined]. These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
4. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC scrap generation restriction of 56,600,000 lbs (from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
5. The permittee shall submit annual reports that specify the total OC emissions from SMC compression molding, the total OC emissions from scrap generation, the total SMC usage (preheated, non-preheated and combined)[in pounds], and the total scrap SMC generated (in pounds) for the previous calendar year. These reports shall be submitted by January 31 of each year, and shall cover the previous calendar year.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. Compliance with the emission limitation in Section A.I. of these terms and conditions shall be determined in accordance with the following method:
 - a. Emission Limitations:
1.61 lbs OC/hour and 4.95 tons OC/year (molding only)

Applicable Compliance Method:
 Compliance with the hourly allowable OC emission limitation may be determined by multiplying the maximum hourly SMC usage rate (lbs/hr) by a worst-case emission factor of 0.0035 pounds of OC per pound of SMC.*

*Emission factor supplied by permittee and was based on emission testing.

Compliance with the annual emission limitation may be determined as follows:

- i. multiply the maximum annual usage rate of preheated SMC (2,000,000 lbs/year) by a worst-case emission factor of 0.0035 lb OC/lb of SMC for preheated materials;
- ii. multiply the maximum annual usage rate of non-preheated SMC (1,450,000 lbs/year) by a worst case emission factor of 0.002 lb OC/lb of SMC for non-preheated materials; and
- iii. sum i. and ii. and then divide by 2000.

- b. Emission Limitation:
 OC emissions for sheet molding compound (SMC) usage shall not exceed 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).

Applicable Compliance Method:
 Compliance shall be based on the record keeping requirements specified in section A.III.1. of this permit.

- c. Emission Limitation:
 OC emissions for scrap generation shall not exceed 28.30 tons OC per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).

Applicable Compliance Method:
 Compliance shall be based upon the record keeping requirements specified in section A.III.2. of this permit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: P016 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

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

- 1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions		
1. None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: P017 Issuance type: Title V Preliminary Proposed Permit

A. State and Federally Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
compression sheet molding press #10	OAC rule 3745-31-05 (PTI #03-13557)	compression molding- 1.40 lbs organic compound (OC)/hour, 4.50 tons OC/year (See A.I.2.a and A.I.2.c.)
	OAC rule 3745-31-02(A) (PTI #03-13557)	combined limit of 58.1 tons OC/rolling, 12-month period (See A.I.2.b.)
		scrap generation- combined limit of 28.30 tons OC/rolling, 12-month period (See A.I.2.b.)

2. Additional Terms and Conditions

- a. The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-02(A) (2).
- b. The permittee has requested federally enforceable combined emission limitations for compression molding and scrap generation from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038. The federally enforceable emission limitations are based on sheet molding compound (SMC) usage restrictions (see A.II.1) and are being established for the purposes of maintaining the facility's status as a PSD "minor".
- c. The 1.40 lbs OC/hr and 4.50 tons OC/year emission limitations were established for PTI purposes to

reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and reporting requirements to ensure compliance with these limitations.

- d. This emissions unit is not subject to the requirements specified in OAC rule 3745-21-07(G) because no liquid organic material, as defined in OAC rule 3745-21-01(C)(3), enters the SMC press as a separate raw material.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. The maximum annual SMC usage for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed any of the following:
 - a. 2,000,000 lbs of preheated SMC;*
 - b. 56,600,000 lbs of non-preheated SMC;* and
 - c. 56,600,000 lbs of all SMC, combined (preheated and non-preheated).*

*The annual SMC usage restriction shall be based upon a rolling, 12-month summation of the monthly SMC input rates.
2. The maximum annual scrap generation for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed 56,600,000 lbs per rolling, 12-month period.
3. Raw scrap SMC shall be collected, at a minimum, every eight hours (i.e., at the end of each shift), weighed and placed in a closed container to minimize volatilization of additional styrene.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. In order to demonstrate compliance with the usage restrictions in condition A.II.1. and the allowable OC emission limitation of 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
 - a. the total mass of raw SMC used in all compression molding presses, non-preheated, in pounds;
 - b. the total mass of raw SMC preheated before use in all compression molding presses, in pounds;
 - c. the total mass of raw SMC used in all compression molding presses (a + b), in pounds;
 - d. the calculated OC emissions, in pounds, using the following equations;

$$\text{OC emissions (preheated)} = (\text{lbs/month, from section 1.b}) \times (0.0035 \text{ lb OC/lb SMC})^*$$

$$\text{OC emissions (non-preheated)} = (\text{lbs/month, from section 1.a}) \times (0.002 \text{ lb OC/lb SMC})^*$$

$$\text{total OC emissions (tons/month)} = [\text{OC emissions (preheated)} + \text{OC emissions (non-preheated)}] / 2000$$

*Emission factors were supplied by permittee and were based on emission testing.
 - e. the rolling, 12-month summation of the monthly SMC usage rates, in pounds, for the non-preheated, preheated, and total (preheated and non-preheated) SMC usages, and the rolling, 12-month summation of the monthly OC emission rates, in tons.
2. In order to demonstrate compliance with the usage restrictions in condition A.II.2 and the allowable OC emission limitation of 28.3 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
 - a. the company identification of each type of scrap SMC generated;
 - b. the total mass of scrap SMC generated, in pounds;
 - c. the styrene content of each type of scrap SMC generated, in %, by weight;
 - d. the weight, in pounds, of each type of scrap SMC generated;
 - e. the calculated average styrene content for all the scrap SMC generated, in weight % (summation of 2.c x

- 2.d, divided by the summation of 2.d for all SMC material, and multiplied by 100%);
- f. the total mass of OC emissions generated by all molding presses (b x e x 0.40 volatilization factor*), in pounds; and
- *Emission factor supplied by permittee and was based on emission testing.
- g. the rolling, 12-month summation of the SMC scrap generation, in pounds, and the rolling, 12-month summation of monthly OC emissions, in tons.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all exceedances the rolling, 12-month OC emission limitation of 58.1 tons (for SMC compression molding from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
2. The permittee shall submit deviation (excursion) reports that identify all exceedances of the rolling, 12-month OC emission limitation of 28.3 tons (for scrap generation from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
3. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC usage restrictions of 2,000,000 lbs of preheated SMC, 56,600,000 lbs of non-preheated SMC, and 56,600,000 lbs of all SMC combined (preheated and non-preheated) [from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined]. These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
4. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC scrap generation restriction of 56,600,000 lbs (from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
5. The permittee shall submit annual reports that specify the total OC emissions from SMC compression molding, the total OC emissions from scrap generation, the total SMC usage (preheated, non-preheated and combined)[in pounds], and the total scrap SMC generated (in pounds) for the previous calendar year. These reports shall be submitted by January 31 of each year, and shall cover the previous calendar year.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. Compliance with the emission limitation in Section A.I. of these terms and conditions shall be determined in accordance with the following method:
 - a. Emission Limitations:

1.40 lbs OC/hour and 4.50 tons OC/year (molding only)

Applicable Compliance Method:
Compliance with the hourly allowable OC emission limitation may be determined by multiplying the maximum hourly SMC usage rate (lbs/hr) by a worst-case emission factor of 0.0035 pounds of OC per pound of SMC.*

*Emission factor supplied by permittee and was based on emission testing.

Compliance with the annual emission limitation may be determined as follows:

 - i. multiply the maximum annual usage rate of preheated SMC (2,000,000 lbs/year) by a worst-case emission factor of 0.0035 lb OC/lb of SMC for preheated materials;
 - ii. multiply the maximum annual usage rate of non-preheated SMC (1,000,000 lbs/year) by a worst case emission factor of 0.002 lb OC/lb of SMC for non-preheated materials; and
 - iii. sum i. and ii. and then divide by 2000.
 - b. Emission Limitation:

OC emissions for sheet molding compound (SMC) usage shall not exceed 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).

Applicable Compliance Method:
Compliance shall be based on the record keeping requirements specified in section A.III.1. of this permit.

- c. Emission Limitation:
OC emissions for scrap generation shall not exceed 28.30 tons OC per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirements specified in section A.III.2. of this permit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: P017 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

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

- 1. None.

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

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

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: P018 Issuance type: Title V Preliminary Proposed Permit

A. **State and Federally Enforceable Section**

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

1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
compression sheet molding press #11	OAC rule 3745-31-05 (PTI #03-13557)	compression molding- 1.54 lbs organic compound (OC)/hour, 4.80 tons OC/year (See A.1.2.a and A.1.2.c.)
	OAC rule 3745-31-02(A) (PTI #03-13557)	combined limit of 58.1 tons OC/rolling, 12-month period (See A.1.2.b.) scrap generation- combined limit of 28.30 tons OC/rolling, 12-month period (See A.1.2.b.)

2. **Additional Terms and Conditions**

- a. The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-02(A) (2).
- b. The permittee has requested federally enforceable combined emission limitations for compression molding and scrap generation from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038. The federally enforceable emission limitations are based on sheet molding compound (SMC) usage restrictions (see A.II.1) and are being established for the purposes of maintaining the facility's status as a PSD "minor".
- c. The 1.54 lbs OC/hr and 4.80 tons OC/year emission limitations were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and reporting requirements to ensure compliance with these limitations.
- d. This emissions unit is not subject to the requirements specified in OAC rule 3745-21-07(G) because no liquid organic material, as defined in OAC rule 3745-21-01(C)(3), enters the SMC press as a separate raw material.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

II. **Operational Restrictions**

1. The maximum annual SMC usage for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed any of the following:
 - a. 2,000,000 lbs of preheated SMC;*
 - b. 56,600,000 lbs of non-preheated SMC;* and
 - c. 56,600,000 lbs of all SMC, combined (preheated and non-preheated).*

*The annual SMC usage restriction shall be based upon a rolling, 12-month summation of the monthly SMC input rates.
2. The maximum annual scrap generation for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed 56,600,000 lbs per rolling, 12-month period.

3. Raw scrap SMC shall be collected, at a minimum, every eight hours (i.e., at the end of each shift), weighed and placed in a closed container to minimize volatilization of additional styrene.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. In order to demonstrate compliance with the usage restrictions in condition A.II.1. and the allowable OC emission limitation of 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
 - a. the total mass of raw SMC used in all compression molding presses, non-preheated, in pounds;
 - b. the total mass of raw SMC preheated before use in all compression molding presses, in pounds;
 - c. the total mass of raw SMC used in all compression molding presses (a + b), in pounds;
 - d. the calculated OC emissions, in pounds, using the following equations:

$$\text{OC emissions (preheated)} = (\text{lbs/month, from section 1.b}) \times (0.0035 \text{ lb OC/lb SMC})^*$$

$$\text{OC emissions (non-preheated)} = (\text{lbs/month, from section 1.a}) \times (0.002 \text{ lb OC/lb SMC})^*$$

$$\text{total OC emissions (tons/month)} = [\text{OC emissions (preheated)} + \text{OC emissions (non-preheated)}] / 2000$$

*Emission factors were supplied by permittee and were based on emission testing.
 - e. the rolling, 12-month summation of the monthly SMC usage rates, in pounds, for the non-preheated, preheated, and total (preheated and non-preheated) SMC usages, and the rolling, 12-month summation of the monthly OC emission rates, in tons.
2. In order to demonstrate compliance with the usage restrictions in condition A.II.2 and the allowable OC emission limitation of 28.3 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
 - a. the company identification of each type of scrap SMC generated;
 - b. the total mass of scrap SMC generated, in pounds;
 - c. the styrene content of each type of scrap SMC generated, in %, by weight;
 - d. the weight, in pounds, of each type of scrap SMC generated;
 - e. the calculated average styrene content for all the scrap SMC generated, in weight % (summation of 2.c x 2.d, divided by the summation of 2.d for all SMC material, and multiplied by 100%) ;
 - f. the total mass of OC emissions generated by all molding presses (b x e x 0.40 volatilization factor*), in pounds; and

*Emission factor supplied by permittee and was based on emission testing.
 - g. the rolling, 12-month summation of the SMC scrap generation, in pounds, and the rolling, 12-month summation of monthly OC emissions, in tons.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all exceedances the rolling, 12-month OC emission limitation of 58.1 tons (for SMC compression molding from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
2. The permittee shall submit deviation (excursion) reports that identify all exceedances of the rolling, 12-month OC emission limitation of 28.3 tons (for scrap generation from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and

Conditions of this permit.

3. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC usage restrictions of 2,000,000 lbs of preheated SMC, 56,600,000 lbs of non-preheated SMC, and 56,600,000 lbs of all SMC combined (preheated and non-preheated) [from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined]. These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
4. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC scrap generation restriction of 56,600,000 lbs (from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
5. The permittee shall submit annual reports that specify the total OC emissions from SMC compression molding, the total OC emissions from scrap generation, the total SMC usage (preheated, non-preheated and combined)[in pounds], and the total scrap SMC generated (in pounds) for the previous calendar year. These reports shall be submitted by January 31 of each year, and shall cover the previous calendar year.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

1. Compliance with the emission limitation in Section A.I. of these terms and conditions shall be determined in accordance with the following method:
 - a. Emission Limitations:

1.54 lbs OC/hour and 4.80 tons OC/year (molding only)

Applicable Compliance Method:
Compliance with the hourly allowable OC emission limitation may be determined by multiplying the maximum hourly SMC usage rate (lbs/hr) by a worst-case emission factor of 0.0035 pounds of OC per pound of SMC.*

*Emission factor supplied by permittee and was based on emission testing.

Compliance with the annual emission limitation may be determined as follows:

 - i. multiply the maximum annual usage rate of preheated SMC (2,000,000 lbs/year) by a worst-case emission factor of 0.0035 lb OC/lb of SMC for preheated materials;
 - ii. multiply the maximum annual usage rate of non-preheated SMC (1,300,000 lbs/year) by a worst case emission factor of 0.002 lb OC/lb of SMC for non-preheated materials; and
 - iii. sum i. and ii. and then divide by 2000.
 - b. Emission Limitation:

OC emissions for sheet molding compound (SMC) usage shall not exceed 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).

Applicable Compliance Method:
Compliance shall be based on the record keeping requirements specified in section A.III.1. of this permit.
 - c. Emission Limitation:

OC emissions for scrap generation shall not exceed 28.30 tons OC per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirements specified in section A.III.2. of this permit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: P018 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions		
1. None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: P019 Issuance type: Title V Preliminary Proposed Permit

A. State and Federally Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
compression sheet molding press #12	OAC rule 3745-31-05 (PTI #03-13557)	compression molding- 2.87 lbs organic compound (OC)/hour, 7.65 tons OC/year (See A.I.2.a and A.I.2.c.)
	OAC rule 3745-31-02(A) (PTI #03-13557)	combined limit of 58.1 tons OC/rolling, 12-month period (See A.I.2.b.)
		scrap generation- combined limit of 28.30 tons OC/rolling, 12-month period (See A.I.2.b.)

2. **Additional Terms and Conditions**

- a. The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-02(A) (2).
- b. The permittee has requested federally enforceable combined emission limitations for compression molding and scrap generation from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038. The federally enforceable emission limitations are based on sheet molding compound (SMC) usage restrictions (see A.II.1) and are being established for the purposes of maintaining the facility's status as a PSD "minor".
- c. The 2.87 lbs OC/hr and 7.65 tons OC/year emission limitations were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and reporting requirements to ensure compliance with these limitations.
- d. This emissions unit is not subject to the requirements specified in OAC rule 3745-21-07(G) because no liquid organic material, as defined in OAC rule 3745-21-01(C)(3), enters the SMC press as a separate raw material.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

1. The maximum annual SMC usage for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed any of the following:
 - a. 2,000,000 lbs of preheated SMC;*
 - b. 56,600,000 lbs of non-preheated SMC;* and
 - c. 56,600,000 lbs of all SMC, combined (preheated and non-preheated).*

*The annual SMC usage restriction shall be based upon a rolling, 12-month summation of the monthly SMC input rates.
2. The maximum annual scrap generation for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed 56,600,000 lbs per rolling, 12-month period.
3. Raw scrap SMC shall be collected, at a minimum, every eight hours (i.e., at the end of each shift), weighed and placed in a closed container to minimize volatilization of additional styrene.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

1. In order to demonstrate compliance with the usage restrictions in condition A.II.1. and the allowable OC emission limitation of 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
 - a. the total mass of raw SMC used in all compression molding presses, non-preheated, in pounds;
 - b. the total mass of raw SMC preheated before use in all compression molding presses, in pounds;
 - c. the total mass of raw SMC used in all compression molding presses (a + b), in pounds;
 - d. the calculated OC emissions, in pounds, using the following equations:

$$\text{OC emissions (preheated)} = (\text{lbs/month, from section 1.b}) \times (0.0035 \text{ lb OC/lb SMC})^*$$

OC emissions (non-preheated) = (lbs/month, from section 1.a) x (0.002 lb OC/lb SMC)*

total OC emissions (tons/month) = [OC emissions (preheated) + OC emissions (non-preheated)] / 2000

*Emission factors were supplied by permittee and were based on emission testing.

- e. the rolling, 12-month summation of the monthly SMC usage rates, in pounds, for the non-preheated, preheated, and total (preheated and non-preheated) SMC usages, and the rolling, 12-month summation of the monthly OC emission rates, in tons.
2. In order to demonstrate compliance with the usage restrictions in condition A.II.2 and the allowable OC emission limitation of 28.3 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
 - a. the company identification of each type of scrap SMC generated;
 - b. the total mass of scrap SMC generated, in pounds;
 - c. the styrene content of each type of scrap SMC generated, in %, by weight;
 - d. the weight, in pounds, of each type of scrap SMC generated;
 - e. the calculated average styrene content for all the scrap SMC generated, in weight % (summation of 2.c x 2.d, divided by the summation of 2.d for all SMC material, and multiplied by 100%) ;
 - f. the total mass of OC emissions generated by all molding presses (b x e x 0.40 volatilization factor*), in pounds; and

*Emission factor supplied by permittee and was based on emission testing.
 - g. the rolling, 12-month summation of the SMC scrap generation, in pounds, and the rolling, 12-month summation of monthly OC emissions, in tons.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all exceedances the rolling, 12-month OC emission limitation of 58.1 tons (for SMC compression molding from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
2. The permittee shall submit deviation (excursion) reports that identify all exceedances of the rolling, 12-month OC emission limitation of 28.3 tons (for scrap generation from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
3. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC usage restrictions of 2,000,000 lbs of preheated SMC, 56,600,000 lbs of non-preheated SMC, and 56,600,000 lbs of all SMC combined (preheated and non-preheated) [from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined]. These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
4. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC scrap generation restriction of 56,600,000 lbs (from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
5. The permittee shall submit annual reports that specify the total OC emissions from SMC compression molding, the total OC emissions from scrap generation, the total SMC usage (preheated, non-preheated and combined)[in pounds], and the total scrap SMC generated (in pounds) for the previous calendar year. These reports shall be submitted by January 31 of each year, and shall cover the previous calendar year.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

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

- a. Emission Limitations:
2.87 lbs OC/hour and 7.65 tons OC/year (molding only)

Applicable Compliance Method:
Compliance with the hourly allowable OC emission limitation may be determined by multiplying the maximum hourly SMC usage rate (lbs/hr) by a worst-case emission factor of 0.0035 pounds of OC per pound of SMC.*

*Emission factor supplied by permittee and was based on emission testing.

Compliance with the annual emission limitation may be determined as follows:

i. multiply the maximum annual usage rate of preheated SMC (2,000,000 lbs/year) by a worst-case emission factor of 0.0035 lb OC/lb of SMC for preheated materials;

ii. multiply the maximum annual usage rate of non-preheated SMC (4,150,000 lbs/year) by a worst case emission factor of 0.002 lb OC/lb of SMC for non-preheated materials; and

iii. sum i. and ii. and then divide by 2000.
- b. Emission Limitation:
OC emissions for sheet molding compound (SMC) usage shall not exceed 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).

Applicable Compliance Method:
Compliance shall be based on the record keeping requirements specified in section A.III.1. of this permit.
- c. Emission Limitation:
OC emissions for scrap generation shall not exceed 28.30 tons OC per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirements specified in section A.III.2. of this permit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: P019 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

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

- 1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
---	--------------------------------------	--

2. **Additional Terms and Conditions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: P020 Issuance type: Title V Preliminary Proposed Permit

A. State and Federally Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
compression sheet molding press #14	OAC rule 3745-31-05 (PTI #03-13557) OAC rule 3745-31-02(A) (PTI #03-13557)	compression molding- 2.10 lbs organic compound (OC)/hour, 6.0 tons OC/year (See A.I.2.a and A.I.2.c.) combined limit of 58.1 tons OC/rolling, 12-month period (See A.I.2.b.) scrap generation- combined limit of 28.30 tons OC/rolling, 12-month period (See A.I.2.b.)

2. Additional Terms and Conditions

- a. The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-02(A) (2).
- b. The permittee has requested federally enforceable combined emission limitations for compression molding and scrap generation from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038. The federally enforceable emission limitations are based on sheet molding compound (SMC) usage restrictions (see A.II.1) and are being established for the purposes of maintaining the facility's status as a PSD "minor".
- c. The 2.10 lbs OC/hr and 6.0 tons OC/year emission limitations were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record

keeping and reporting requirements to ensure compliance with these limitations.

- d. This emissions unit is not subject to the requirements specified in OAC rule 3745-21-07(G) because no liquid organic material, as defined in OAC rule 3745-21-01(C)(3), enters the SMC press as a separate raw material.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. The maximum annual SMC usage for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed any of the following:
 - a. 2,000,000 lbs of preheated SMC;*
 - b. 56,600,000 lbs of non-preheated SMC;* and
 - c. 56,600,000 lbs of all SMC, combined (preheated and non-preheated).*

*The annual SMC usage restriction shall be based upon a rolling, 12-month summation of the monthly SMC input rates.
2. The maximum annual scrap generation for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed 56,600,000 lbs per rolling, 12-month period.
3. Raw scrap SMC shall be collected, at a minimum, every eight hours (i.e., at the end of each shift), weighed and placed in a closed container to minimize volatilization of additional styrene.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. In order to demonstrate compliance with the usage restrictions in condition A.II.1. and the allowable OC emission limitation of 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
 - a. the total mass of raw SMC used in all compression molding presses, non-preheated, in pounds;
 - b. the total mass of raw SMC preheated before use in all compression molding presses, in pounds;
 - c. the total mass of raw SMC used in all compression molding presses (a + b), in pounds;
 - d. the calculated OC emissions, in pounds, using the following equations;

$$\text{OC emissions (preheated)} = (\text{lbs/month, from section 1.b}) \times (0.0035 \text{ lb OC/lb SMC})^*$$

$$\text{OC emissions (non-preheated)} = (\text{lbs/month, from section 1.a}) \times (0.002 \text{ lb OC/lb SMC})^*$$

$$\text{total OC emissions (tons/month)} = [\text{OC emissions (preheated)} + \text{OC emissions (non-preheated)}] / 2000$$

*Emission factors were supplied by permittee and were based on emission testing.
 - e. the rolling, 12-month summation of the monthly SMC usage rates, in pounds, for the non-preheated, preheated, and total (preheated and non-preheated) SMC usages, and the rolling, 12-month summation of the monthly OC emission rates, in tons.
2. In order to demonstrate compliance with the usage restrictions in condition A.II.2 and the allowable OC emission limitation of 28.3 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
 - a. the company identification of each type of scrap SMC generated;
 - b. the total mass of scrap SMC generated, in pounds;
 - c. the styrene content of each type of scrap SMC generated, in %, by weight;
 - d. the weight, in pounds, of each type of scrap SMC generated;
 - e. the calculated average styrene content for all the scrap SMC generated, in weight % (summation of 2.c x 2.d, divided by the summation of 2.d for all SMC material, and multiplied by 100%) ;

- f. the total mass of OC emissions generated by all molding presses (b x e x 0.40 volatilization factor*), in pounds; and
- *Emission factor supplied by permittee and was based on emission testing.
- g. the rolling, 12-month summation of the SMC scrap generation, in pounds, and the rolling, 12-month summation of monthly OC emissions, in tons.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all exceedances the rolling, 12-month OC emission limitation of 58.1 tons (for SMC compression molding from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
2. The permittee shall submit deviation (excursion) reports that identify all exceedances of the rolling, 12-month OC emission limitation of 28.3 tons (for scrap generation from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
3. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC usage restrictions of 2,000,000 lbs of preheated SMC, 56,600,000 lbs of non-preheated SMC, and 56,600,000 lbs of all SMC combined (preheated and non-preheated) [from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined]. These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
4. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC scrap generation restriction of 56,600,000 lbs (from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
5. The permittee shall submit annual reports that specify the total OC emissions from SMC compression molding, the total OC emissions from scrap generation, the total SMC usage (preheated, non-preheated and combined)[in pounds], and the total scrap SMC generated (in pounds) for the previous calendar year. These reports shall be submitted by January 31 of each year, and shall cover the previous calendar year.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. Compliance with the emission limitation in Section A.I. of these terms and conditions shall be determined in accordance with the following method:
 - a. Emission Limitations:

2.10 lbs OC/hour and 6.0 tons OC/year (molding only)

Applicable Compliance Method:
Compliance with the hourly allowable OC emission limitation may be determined by multiplying the maximum hourly SMC usage rate (lbs/hr) by a worst-case emission factor of 0.0035 pounds of OC per pound of SMC.*

*Emission factor supplied by permittee and was based on emission testing.

Compliance with the annual emission limitation may be determined as follows:

 - i. multiply the maximum annual usage rate of preheated SMC (2,000,000 lbs/year) by a worst-case emission factor of 0.0035 lb OC/lb of SMC for preheated materials;
 - ii. multiply the maximum annual usage rate of non-preheated SMC (2,500,000 lbs/year) by a worst case emission factor of 0.002 lb OC/lb of SMC for non-preheated materials; and
 - iii. sum i. and ii. and then divide by 2000.
 - b. Emission Limitation:

OC emissions for sheet molding compound (SMC) usage shall not exceed 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).

Applicable Compliance Method:
Compliance shall be based on the record keeping requirements specified in section A.III.1. of this permit.
 - c. Emission Limitation:

OC emissions for scrap generation shall not exceed 28.30 tons OC per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirements specified in section A.III.2. of this permit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: P020 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

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

- 1. None.

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

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

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: P021 Issuance type: Title V Preliminary Proposed Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
compression sheet molding press #15	OAC rule 3745-31-05 (PTI #03-13557) OAC rule 3745-31-02(A) (PTI #03-13557)	compression molding- 2.10 lbs organic compound (OC)/hour, 6.0 tons OC/year (See A.I.2.a and A.I.2.c.) combined limit of 58.1 tons OC/rolling, 12-month period (See A.I.2.b.) scrap generation- combined limit of 28.30 tons OC/rolling, 12-month period (See A.I.2.b.)

2. Additional Terms and Conditions

- a. The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-02(A) (2).
- b. The permittee has requested federally enforceable combined emission limitations for compression molding and scrap generation from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038. The federally enforceable emission limitations are based on sheet molding compound (SMC) usage restrictions (see A.II.1) and are being established for the purposes of maintaining the facility's status as a PSD "minor".
- c. The 2.10 lbs OC/hr and 6.0 tons OC/year emission limitations were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and reporting requirements to ensure compliance with these limitations.
- d. This emissions unit is not subject to the requirements specified in OAC rule 3745-21-07(G) because no liquid organic material, as defined in OAC rule 3745-21-01(C)(3), enters the SMC press as a separate raw material.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. The maximum annual SMC usage for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed any of the following:
 - a. 2,000,000 lbs of preheated SMC;*
 - b. 56,600,000 lbs of non-preheated SMC;* and
 - c. 56,600,000 lbs of all SMC, combined (preheated and non-preheated).*

*The annual SMC usage restriction shall be based upon a rolling, 12-month summation of the monthly SMC input rates.
2. The maximum annual scrap generation for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed 56,600,000 lbs per rolling, 12-month period.
3. Raw scrap SMC shall be collected, at a minimum, every eight hours (i.e., at the end of each shift), weighed and placed in a closed container to minimize volatilization of additional styrene.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. In order to demonstrate compliance with the usage restrictions in condition A.II.1. and the allowable OC emission limitation of 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
 - a. the total mass of raw SMC used in all compression molding presses, non-preheated, in pounds;
 - b. the total mass of raw SMC preheated before use in all compression molding presses, in pounds;
 - c. the total mass of raw SMC used in all compression molding presses (a + b), in pounds;
 - d. the calculated OC emissions, in pounds, using the following equations;

$$\text{OC emissions (preheated)} = (\text{lbs/month, from section 1.b}) \times (0.0035 \text{ lb OC/lb SMC})^*$$

$$\text{OC emissions (non-preheated)} = (\text{lbs/month, from section 1.a}) \times (0.002 \text{ lb OC/lb SMC})^*$$

$$\text{total OC emissions (tons/month)} = [\text{OC emissions (preheated)} + \text{OC emissions (non-preheated)}] / 2000$$

*Emission factors were supplied by permittee and were based on emission testing.
 - e. the rolling, 12-month summation of the monthly SMC usage rates, in pounds, for the non-preheated, preheated, and total (preheated and non-preheated) SMC usages, and the rolling, 12-month summation of the monthly OC emission rates, in tons.
2. In order to demonstrate compliance with the usage restrictions in condition A.II.2 and the allowable OC emission limitation of 28.3 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
 - a. the company identification of each type of scrap SMC generated;
 - b. the total mass of scrap SMC generated, in pounds;
 - c. the styrene content of each type of scrap SMC generated, in %, by weight;
 - d. the weight, in pounds, of each type of scrap SMC generated;
 - e. the calculated average styrene content for all the scrap SMC generated, in weight % (summation of 2.c x 2.d, divided by the summation of 2.d for all SMC material, and multiplied by 100%);
 - f. the total mass of OC emissions generated by all molding presses (b x e x 0.40 volatilization factor*), in pounds; and

*Emission factor supplied by permittee and was based on emission testing.
 - g. the rolling, 12-month summation of the SMC scrap generation, in pounds, and the rolling, 12-month summation of monthly OC emissions, in tons.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all exceedances the rolling, 12-month OC emission limitation of 58.1 tons (for SMC compression molding from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
2. The permittee shall submit deviation (excursion) reports that identify all exceedances of the rolling, 12-month OC emission limitation of 28.3 tons (for scrap generation from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
3. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC usage restrictions of 2,000,000 lbs of preheated SMC, 56,600,000 lbs of non-

preheated SMC, and 56,600,000 lbs of all SMC combined (preheated and non-preheated) [from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined]. These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.

4. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC scrap generation restriction of 56,600,000 lbs (from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
5. The permittee shall submit annual reports that specify the total OC emissions from SMC compression molding, the total OC emissions from scrap generation, the total SMC usage (preheated, non-preheated and combined) (in pounds), and the total scrap SMC generated (in pounds) for the previous calendar year. These reports shall be submitted by January 31 of each year, and shall cover the previous calendar year.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

1. Compliance with the emission limitation in Section A.I. of these terms and conditions shall be determined in accordance with the following method:
 - a. Emission Limitations:

2.10 lbs OC/hour and 6.0 tons OC/year (molding only)

Applicable Compliance Method:
Compliance with the hourly allowable OC emission limitation may be determined by multiplying the maximum hourly SMC usage rate (lbs/hr) by a worst-case emission factor of 0.0035 pounds of OC per pound of SMC.*

*Emission factor supplied by permittee and was based on emission testing.

Compliance with the annual emission limitation may be determined as follows:

 - i. multiply the maximum annual usage rate of preheated SMC (2,000,000 lbs/year) by a worst-case emission factor of 0.0035 lb OC/lb of SMC for preheated materials;
 - ii. multiply the maximum annual usage rate of non-preheated SMC (2,500,000 lbs/year) by a worst case emission factor of 0.002 lb OC/lb of SMC for non-preheated materials; and
 - iii. sum i. and ii. and then divide by 2000.
 - b. Emission Limitation:

OC emissions for sheet molding compound (SMC) usage shall not exceed 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).

Applicable Compliance Method:
Compliance shall be based on the record keeping requirements specified in section A.III.1. of this permit.
 - c. Emission Limitation:

OC emissions for scrap generation shall not exceed 28.30 tons OC per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirements specified in section A.III.2. of this permit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: P021 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under

state law only.

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
---	--------------------------------------	--

2. Additional Terms and Conditions

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: P022 Issuance type: Title V Preliminary Proposed Permit

A. State and Federally Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
compression sheet molding press #21	OAC rule 3745-31-05 (PTI #03-13557)	compression molding- 1.05 lbs organic compound (OC)/hour, 3.75 tons OC/year (See A.I.2.a and A.I.2.c.)
	OAC rule 3745-31-02(A) (PTI #03-13557)	combined limit of 58.1 tons OC/rolling, 12-month period (See A.I.2.b.)
		scrap generation- combined limit of 28.30 tons OC/rolling, 12-month period (See A.I.2.b.)

2. **Additional Terms and Conditions**

- The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-02(A) (2).
- The permittee has requested federally enforceable combined emission limitations for compression molding and scrap generation from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038. The federally enforceable emission limitations are based on sheet molding compound (SMC) usage restrictions (see A.II.1) and are being established for the purposes of maintaining the facility's status as a PSD "minor".
- The 1.05 lbs OC/hr and 3.75 tons OC/year emission limitations were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and reporting requirements to ensure compliance with these limitations.
- This emissions unit is not subject to the requirements specified in OAC rule 3745-21-07(G) because no liquid organic material, as defined in OAC rule 3745-21-01(C)(3), enters the SMC press as a separate raw material.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

- The maximum annual SMC usage for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed any of the following:
 - 2,000,000 lbs of preheated SMC;*
 - 56,600,000 lbs of non-preheated SMC;* and
 - 56,600,000 lbs of all SMC, combined (preheated and non-preheated).*

*The annual SMC usage restriction shall be based upon a rolling, 12-month summation of the monthly SMC input rates.
- The maximum annual scrap generation for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed 56,600,000 lbs per rolling, 12-month period.
- Raw scrap SMC shall be collected, at a minimum, every eight hours (i.e., at the end of each shift), weighed and placed in a closed container to minimize volatilization of additional styrene.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

- In order to demonstrate compliance with the usage restrictions in condition A.II.1. and the allowable OC emission limitation of 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
 - the total mass of raw SMC used in all compression molding presses, non-preheated, in pounds;
 - the total mass of raw SMC preheated before use in all compression molding presses, in pounds;
 - the total mass of raw SMC used in all compression molding presses (a + b), in pounds;
 - the calculated OC emissions, in pounds, using the following equations:

$$\text{OC emissions (preheated)} = (\text{lbs/month, from section 1.b}) \times (0.0035 \text{ lb OC/lb SMC})^*$$

$$\text{OC emissions (non-preheated)} = (\text{lbs/month, from section 1.a}) \times (0.002 \text{ lb OC/lb SMC})^*$$

$$\text{total OC emissions (tons/month)} = [\text{OC emissions (preheated)} + \text{OC emissions (non-preheated)}] / 2000$$

*Emission factors were supplied by permittee and were based on emission testing.

- e. the rolling, 12-month summation of the monthly SMC usage rates, in pounds, for the non-preheated, preheated, and total (preheated and non-preheated) SMC usages, and the rolling, 12-month summation of the monthly OC emission rates, in tons.
2. In order to demonstrate compliance with the usage restrictions in condition A.II.2 and the allowable OC emission limitation of 28.3 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
 - a. the company identification of each type of scrap SMC generated;
 - b. the total mass of scrap SMC generated, in pounds;
 - c. the styrene content of each type of scrap SMC generated, in %, by weight;
 - d. the weight, in pounds, of each type of scrap SMC generated;
 - e. the calculated average styrene content for all the scrap SMC generated, in weight % (summation of 2.c x 2.d, divided by the summation of 2.d for all SMC material, and multiplied by 100%);
 - f. the total mass of OC emissions generated by all molding presses (b x e x 0.40 volatilization factor*), in pounds; and

*Emission factor supplied by permittee and was based on emission testing.
 - g. the rolling, 12-month summation of the SMC scrap generation, in pounds, and the rolling, 12-month summation of monthly OC emissions, in tons.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all exceedances the rolling, 12-month OC emission limitation of 58.1 tons (for SMC compression molding from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
2. The permittee shall submit deviation (excursion) reports that identify all exceedances of the rolling, 12-month OC emission limitation of 28.3 tons (for scrap generation from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
3. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC usage restrictions of 2,000,000 lbs of preheated SMC, 56,600,000 lbs of non-preheated SMC, and 56,600,000 lbs of all SMC combined (preheated and non-preheated) [from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined]. These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
4. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC scrap generation restriction of 56,600,000 lbs (from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
5. The permittee shall submit annual reports that specify the total OC emissions from SMC compression molding, the total OC emissions from scrap generation, the total SMC usage (preheated, non-preheated and combined) [in pounds], and the total scrap SMC generated (in pounds) for the previous calendar year. These reports shall be submitted by January 31 of each year, and shall cover the previous calendar year.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. Compliance with the emission limitation in Section A.I. of these terms and conditions shall be determined in accordance with the following method:
 - a. Emission Limitations:
1.05 lbs OC/hour and 3.75 tons OC/year (molding only)

Applicable Compliance Method:
Compliance with the hourly allowable OC emission limitation may be determined by multiplying the

maximum hourly SMC usage rate (lbs/hr) by a worst-case emission factor of 0.0035 pounds of OC per pound of SMC.*

*Emission factor supplied by permittee and was based on emission testing.

Compliance with the annual emission limitation may be determined as follows:

- i. multiply the maximum annual usage rate of preheated SMC (2,000,000 lbs/year) by a worst-case emission factor of 0.0035 lb OC/lb of SMC for preheated materials;
 - ii. multiply the maximum annual usage rate of non-preheated SMC (250,000 lbs/year) by a worst case emission factor of 0.002 lb OC/lb of SMC for non-preheated materials; and
 - iii. sum i. and ii. and then divide by 2000.
- b. Emission Limitation:
 OC emissions for sheet molding compound (SMC) usage shall not exceed 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).
- Applicable Compliance Method:
 Compliance shall be based on the record keeping requirements specified in section A.III.1. of this permit.
- c. Emission Limitation:
 OC emissions for scrap generation shall not exceed 28.30 tons OC per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).
- Applicable Compliance Method:
 Compliance shall be based upon the record keeping requirements specified in section A.III.2. of this permit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: P022 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

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

- 1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
---	--------------------------------------	--

2. **Additional Terms and Conditions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: P024 Issuance type: Title V Preliminary Proposed Permit

A. State and Federally Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
compression sheet molding press #44	OAC rule 3745-31-05 (PTI #03-13557)	compression molding- 0.35 lb organic compound (OC)/hour, 1.31 tons OC/year (See A.I.2.a and A.I.2.c.)
	OAC rule 3745-31-02(A) (PTI #03-13557)	combined limit of 58.1 tons OC/rolling, 12-month period (See A.I.2.b.) scrap generation- combined limit of 28.30 tons OC/rolling, 12-month period (See A.I.2.b.)

2. Additional Terms and Conditions

- a. The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-02(A) (2).
- b. The permittee has requested federally enforceable combined emission limitations for compression molding and scrap generation from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038. The federally enforceable emission limitations are based on sheet molding compound (SMC) usage restrictions (see A.II.1) and are being established for the purposes of maintaining the facility's status as a PSD "minor".
- c. The 0.35 lb OC/hr and 1.31 tons OC/year emission limitations were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and reporting requirements to ensure compliance with these limitations.

- d. This emissions unit is not subject to the requirements specified in OAC rule 3745-21-07(G) because no liquid organic material, as defined in OAC rule 3745-21-01(C)(3), enters the SMC press as a separate raw material.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. The maximum annual SMC usage for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed any of the following:
 - a. 2,000,000 lbs of preheated SMC;*
 - b. 56,600,000 lbs of non-preheated SMC;* and
 - c. 56,600,000 lbs of all SMC, combined (preheated and non-preheated).*

*The annual SMC usage restriction shall be based upon a rolling, 12-month summation of the monthly SMC input rates.
2. The maximum annual scrap generation for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed 56,600,000 lbs per rolling, 12-month period.
3. Raw scrap SMC shall be collected, at a minimum, every eight hours (i.e., at the end of each shift), weighed and placed in a closed container to minimize volatilization of additional styrene.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. In order to demonstrate compliance with the usage restrictions in condition A.II.1. and the allowable OC emission limitation of 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
 - a. the total mass of raw SMC used in all compression molding presses, non-preheated, in pounds;
 - b. the total mass of raw SMC preheated before use in all compression molding presses, in pounds;
 - c. the total mass of raw SMC used in all compression molding presses (a + b), in pounds;
 - d. the calculated OC emissions, in pounds, using the following equations:

$$\text{OC emissions (preheated)} = (\text{lbs/month, from section 1.b}) \times (0.0035 \text{ lb OC/lb SMC})^*$$

$$\text{OC emissions (non-preheated)} = (\text{lbs/month, from section 1.a}) \times (0.002 \text{ lb OC/lb SMC})^*$$

$$\text{total OC emissions (tons/month)} = [\text{OC emissions (preheated)} + \text{OC emissions (non-preheated)}] / 2000$$

*Emission factors were supplied by permittee and were based on emission testing.
 - e. the rolling, 12-month summation of the monthly SMC usage rates, in pounds, for the non-preheated, preheated, and total (preheated and non-preheated) SMC usages, and the rolling, 12-month summation of the monthly OC emission rates, in tons.
2. In order to demonstrate compliance with the usage restrictions in condition A.II.2 and the allowable OC emission limitation of 28.3 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
 - a. the company identification of each type of scrap SMC generated;
 - b. the total mass of scrap SMC generated, in pounds;
 - c. the styrene content of each type of scrap SMC generated, in %, by weight;
 - d. the weight, in pounds, of each type of scrap SMC generated;
 - e. the calculated average styrene content for all the scrap SMC generated, in weight % (summation of 2.c x 2.d, divided by the summation of 2.d for all SMC material, and multiplied by 100%);

- f. the total mass of OC emissions generated by all molding presses (b x e x 0.40 volatilization factor*), in pounds; and
- *Emission factor supplied by permittee and was based on emission testing.
- g. the rolling, 12-month summation of the SMC scrap generation, in pounds, and the rolling, 12-month summation of monthly OC emissions, in tons.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all exceedances the rolling, 12-month OC emission limitation of 58.1 tons (for SMC compression molding from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
2. The permittee shall submit deviation (excursion) reports that identify all exceedances of the rolling, 12-month OC emission limitation of 28.3 tons (for scrap generation from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
3. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC usage restrictions of 2,000,000 lbs of preheated SMC, 56,600,000 lbs of non-preheated SMC, and 56,600,000 lbs of all SMC combined (preheated and non-preheated) [from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined]. These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
4. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC scrap generation restriction of 56,600,000 lbs (from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
5. The permittee shall submit annual reports that specify the total OC emissions from SMC compression molding, the total OC emissions from scrap generation, the total SMC usage (preheated, non-preheated and combined)[in pounds], and the total scrap SMC generated (in pounds) for the previous calendar year. These reports shall be submitted by January 31 of each year, and shall cover the previous calendar year.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. Compliance with the emission limitation in Section A.I. of these terms and conditions shall be determined in accordance with the following method:
 - a. Emission Limitations:
0.35 lb OC/hour and 1.31 tons OC/year (molding only)
 - Applicable Compliance Method:
Compliance with the hourly allowable OC emission limitation may be determined by multiplying the maximum hourly SMC usage rate (lbs/hr) by a worst-case emission factor of 0.0035 pounds of OC per pound of SMC.*
 - *Emission factor supplied by permittee and was based on emission testing.
 - Compliance with the annual emission limitation may be determined as follows:
 - i. multiply the maximum annual usage rate of preheated SMC (750,000 lbs/year) by a worst-case emission factor of 0.0035 lb OC/lb of SMC for preheated materials; and
 - iii. divide i by 2000.
 - b. Emission Limitation:
OC emissions for sheet molding compound (SMC) usage shall not exceed 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).
 - Applicable Compliance Method:
Compliance shall be based on the record keeping requirements specified in section A.III.1. of this permit.
 - c. Emission Limitation:
OC emissions for scrap generation shall not exceed 28.30 tons OC per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).

Applicable Compliance Method:
 Compliance shall be based upon the record keeping requirements specified in section A.III.2. of this permit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: P024 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

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

- 1. None.

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

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

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 0388000002 Issuance type: Title V Preliminary Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 0388000002 Emissions Unit ID: P025 Issuance type: Title V Preliminary Proposed Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
compression sheet molding press #20	OAC rule 3745-31-05 (PTI #03-13557)	compression molding- 0.35 lb organic compound (OC)/hour, 1.31 tons OC/year (See A.I.2.a and A.I.2.c.)
	OAC rule 3745-31-02(A) (PTI #03-13557)	combined limit of 58.1 tons OC/rolling, 12-month period (See A.I.2.b.)
		scrap generation- combined limit of 28.30 tons OC/rolling, 12-month period (See A.I.2.b.)

2. Additional Terms and Conditions

- a. The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-02(A) (2).
- b. The permittee has requested federally enforceable combined emission limitations for compression molding and scrap generation from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038. The federally enforceable emission limitations are based on sheet molding compound (SMC) usage restrictions (see A.II.1) and are being established for the purposes of maintaining the facility's status as a PSD "minor".
- c. The 0.35 lb OC/hr and 1.31 tons OC/year emission limitations were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and reporting requirements to ensure compliance with these limitations.
- d. This emissions unit is not subject to the requirements specified in OAC rule 3745-21-07(G) because no liquid organic material, as defined in OAC rule 3745-21-01(C)(3), enters the SMC press as a separate raw material.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. The maximum annual SMC usage for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed any of the following:
 - a. 2,000,000 lbs of preheated SMC;*
 - b. 56,600,000 lbs of non-preheated SMC;* and
 - c. 56,600,000 lbs of all SMC, combined (preheated and non-preheated).*

*The annual SMC usage restriction shall be based upon a rolling, 12-month summation of the monthly SMC input rates.
2. The maximum annual scrap generation for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed 56,600,000 lbs per rolling, 12-month period.
3. Raw scrap SMC shall be collected, at a minimum, every eight hours (i.e., at the end of each shift), weighed and placed in a closed container to minimize volatilization of additional styrene.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

1. In order to demonstrate compliance with the usage restrictions in condition A.II.1. and the allowable OC emission limitation of 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
 - a. the total mass of raw SMC used in all compression molding presses, non-preheated, in pounds;
 - b. the total mass of raw SMC preheated before use in all compression molding presses, in pounds;
 - c. the total mass of raw SMC used in all compression molding presses (a + b), in pounds;
 - d. the calculated OC emissions, in pounds, using the following equations;

OC emissions (preheated) = (lbs/month, from section 1.b) x (0.0035 lb OC/lb SMC)*

OC emissions (non-preheated) = (lbs/month, from section 1.a) x (0.002 lb OC/lb SMC)*

total OC emissions (tons/month) = [OC emissions (preheated) + OC emissions (non-preheated)] / 2000

*Emission factors were supplied by permittee and were based on emission testing.
 - e. the rolling, 12-month summation of the monthly SMC usage rates, in pounds, for the non-preheated, preheated, and total (preheated and non-preheated) SMC usages, and the rolling, 12-month summation of the monthly OC emission rates, in tons.
2. In order to demonstrate compliance with the usage restrictions in condition A.II.2 and the allowable OC emission limitation of 28.3 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
 - a. the company identification of each type of scrap SMC generated;
 - b. the total mass of scrap SMC generated, in pounds;
 - c. the styrene content of each type of scrap SMC generated, in %, by weight;
 - d. the weight, in pounds, of each type of scrap SMC generated;
 - e. the calculated average styrene content for all the scrap SMC generated, in weight % (summation of 2.c x 2.d, divided by the summation of 2.d for all SMC material, and multiplied by 100%) ;
 - f. the total mass of OC emissions generated by all molding presses (b x e x 0.40 volatilization factor*), in pounds; and

*Emission factor supplied by permittee and was based on emission testing.
 - g. the rolling, 12-month summation of the SMC scrap generation, in pounds, and the rolling, 12-month summation of monthly OC emissions, in tons.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify all exceedances the rolling, 12-month OC emission limitation of 58.1 tons (for SMC compression molding from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
2. The permittee shall submit deviation (excursion) reports that identify all exceedances of the rolling, 12-month OC emission limitation of 28.3 tons (for scrap generation from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
3. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC usage restrictions of 2,000,000 lbs of preheated SMC, 56,600,000 lbs of non-preheated SMC, and 56,600,000 lbs of all SMC combined (preheated and non-preheated) [from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022,

P024, P025, P033, P034, P035, P036, P037 and P038, combined]. These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.

4. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC scrap generation restriction of 56,600,000 lbs (from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
5. The permittee shall submit annual reports that specify the total OC emissions from SMC compression molding, the total OC emissions from scrap generation, the total SMC usage (preheated, non-preheated and combined)(in pounds), and the total scrap SMC generated (in pounds) for the previous calendar year. These reports shall be submitted by January 31 of each year, and shall cover the previous calendar year.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. Compliance with the emission limitation in Section A.I. of these terms and conditions shall be determined in accordance with the following method:
 - a. Emission Limitations:
0.35 lb OC/hour and 1.31 tons OC/year (molding only)

Applicable Compliance Method:
Compliance with the hourly allowable OC emission limitation may be determined by multiplying the maximum hourly SMC usage rate (lbs/hr) by a worst-case emission factor of 0.0035 pounds of OC per pound of SMC.*

*Emission factor supplied by permittee and was based on emission testing.

Compliance with the annual emission limitation may be determined as follows:

 - i. multiply the maximum annual usage rate of preheated SMC (750,000 lbs/year) by a worst-case emission factor of 0.0035 lb OC/lb of SMC for preheated materials; and
 - iii. divide i by 2000.
 - b. Emission Limitation:
OC emissions for sheet molding compound (SMC) usage shall not exceed 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).

Applicable Compliance Method:
Compliance shall be based on the record keeping requirements specified in section A.III.1. of this permit.
 - c. Emission Limitation:
OC emissions for scrap generation shall not exceed 28.30 tons OC per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirements specified in section A.III.2. of this permit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: P025 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

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

1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions		
1. None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: P033 Issuance type: Title V Preliminary Proposed Permit

A. **State and Federally Enforceable Section**

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

1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
compression sheet molding press #18	OAC rule 3745-31-05	compression molding- 1.75 lbs organic compound

(PTI #03-13557)

(OC)/hour, 5.25 tons OC/year (See A.I.2.a and A.I.2.c.)

OAC rule 3745-31-02(A)
(PTI #03-13557)combined limit of 58.1 tons OC/rolling, 12-month period (See A.I.2.b.)
scrap generation- combined limit of 28.30 tons OC/rolling, 12-month period (See A.I.2.b.)**2. Additional Terms and Conditions**

- a. The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-02(A) (2).
- b. The permittee has requested federally enforceable combined emission limitations for compression molding and scrap generation from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038. The federally enforceable emission limitations are based on sheet molding compound (SMC) usage restrictions (see A.II.1) and are being established for the purposes of maintaining the facility's status as a PSD "minor".
- c. The 1.75 lbs OC/hr and 5.25 tons OC/year emission limitations were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and reporting requirements to ensure compliance with these limitations.
- d. This emissions unit is not subject to the requirements specified in OAC rule 3745-21-07(G) because no liquid organic material, as defined in OAC rule 3745-21-01(C)(3), enters the SMC press as a separate raw material.

[Go to the top of this document](#)[Go to the top of Part III for this Emissions Unit](#)*****THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.*******II. Operational Restrictions**

1. The maximum annual SMC usage for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed any of the following:
 - a. 2,000,000 lbs of preheated SMC;*
 - b. 56,600,000 lbs of non-preheated SMC;* and
 - c. 56,600,000 lbs of all SMC, combined (preheated and non-preheated).*

*The annual SMC usage restriction shall be based upon a rolling, 12-month summation of the monthly SMC input rates.
2. The maximum annual scrap generation for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed 56,600,000 lbs per rolling, 12-month period.
3. Raw scrap SMC shall be collected, at a minimum, every eight hours (i.e., at the end of each shift), weighed and placed in a closed container to minimize volatilization of additional styrene.

[Go to the top of this document](#)[Go to the top of Part III for this Emissions Unit](#)*****THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.*******III. Monitoring and/or Record Keeping Requirements**

1. In order to demonstrate compliance with the usage restrictions in condition A.II.1. and the allowable OC emission limitation of 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
 - a. the total mass of raw SMC used in all compression molding presses, non-preheated, in pounds;
 - b. the total mass of raw SMC preheated before use in all compression molding presses, in pounds;
 - c. the total mass of raw SMC used in all compression molding presses (a + b), in pounds;
 - d. the calculated OC emissions, in pounds, using the following equations:

$$\text{OC emissions (preheated)} = (\text{lbs/month, from section 1.b}) \times (0.0035 \text{ lb OC/lb SMC})^*$$

$$\text{OC emissions (non-preheated)} = (\text{lbs/month, from section 1.a}) \times (0.002 \text{ lb OC/lb SMC})^*$$

$$\text{total OC emissions (tons/month)} = [\text{OC emissions (preheated)} + \text{OC emissions (non-preheated)}] / 2000$$

*Emission factors were supplied by permittee and were based on emission testing.
 - e. the rolling, 12-month summation of the monthly SMC usage rates, in pounds, for the non-preheated,

- preheated, and total (preheated and non-preheated) SMC usages, and the rolling, 12-month summation of the monthly OC emission rates, in tons.
2. In order to demonstrate compliance with the usage restrictions in condition A.II.2 and the allowable OC emission limitation of 28.3 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
 - a. the company identification of each type of scrap SMC generated;
 - b. the total mass of scrap SMC generated, in pounds;
 - c. the styrene content of each type of scrap SMC generated, in %, by weight;
 - d. the weight, in pounds, of each type of scrap SMC generated;
 - e. the calculated average styrene content for all the scrap SMC generated, in weight % (summation of 2.c x 2.d, divided by the summation of 2.d for all SMC material, and multiplied by 100%) ;
 - f. the total mass of OC emissions generated by all molding presses (b x e x 0.40 volatilization factor*), in pounds; and

*Emission factor supplied by permittee and was based on emission testing.
 - g. the rolling, 12-month summation of the SMC scrap generation, in pounds, and the rolling, 12-month summation of monthly OC emissions, in tons.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all exceedances the rolling, 12-month OC emission limitation of 58.1 tons (for SMC compression molding from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
2. The permittee shall submit deviation (excursion) reports that identify all exceedances of the rolling, 12-month OC emission limitation of 28.3 tons (for scrap generation from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
3. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC usage restrictions of 2,000,000 lbs of preheated SMC, 56,600,000 lbs of non-preheated SMC, and 56,600,000 lbs of all SMC combined (preheated and non-preheated) [from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined]. These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
4. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC scrap generation restriction of 56,600,000 lbs (from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
5. The permittee shall submit annual reports that specify the total OC emissions from SMC compression molding, the total OC emissions from scrap generation, the total SMC usage (preheated, non-preheated and combined)[in pounds], and the total scrap SMC generated (in pounds) for the previous calendar year. These reports shall be submitted by January 31 of each year, and shall cover the previous calendar year.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. Compliance with the emission limitation in Section A.I. of these terms and conditions shall be determined in accordance with the following method:
 - a. Emission Limitations:
1.75 lbs OC/hour and 5.75 tons OC/year (molding only)

Applicable Compliance Method:
Compliance with the hourly allowable OC emission limitation may be determined by multiplying the maximum hourly SMC usage rate (lbs/hr) by a worst-case emission factor of 0.0035 pounds of OC per pound of SMC.*

*Emission factor supplied by permittee and was based on emission testing.

Compliance with the annual emission limitation may be determined as follows:

- i. multiply the maximum annual usage rate of preheated SMC (2,000,000 lbs/year) by a worst-case emission factor of 0.0035 lb OC/lb of SMC for preheated materials;
- ii. multiply the maximum annual usage rate of non-preheated SMC (1,750,000 lbs/year) by a worst case emission factor of 0.002 lb OC/lb of SMC for non-preheated materials; and
- iii. sum i. and ii. and then divide by 2000.

b. Emission Limitation:

OC emissions for sheet molding compound (SMC) usage shall not exceed 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).

Applicable Compliance Method:

Compliance shall be based on the record keeping requirements specified in section A.III.1. of this permit.

c. Emission Limitation:

OC emissions for scrap generation shall not exceed 28.30 tons OC per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements specified in section A.III.2. of this permit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 0388000002 Issuance type: Title V Preliminary Proposed Permit

[Go to the top of this document](#)

Facility ID: 0388000002 Emissions Unit ID: P033 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

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

1. None.

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

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

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: P034 Issuance type: Title V Preliminary Proposed Permit

A. State and Federally Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
compression sheet molding press #19	OAC rule 3745-31-05 (PTI #03-13557)	compression molding- 1.75 lbs organic compound (OC)/hour, 5.25 tons OC/year (See A.I.2.a and A.I.2.c.)
	OAC rule 3745-31-02(A) (PTI #03-13557)	combined limit of 58.1 tons OC/rolling, 12-month period (See A.I.2.b.)
		scrap generation- combined limit of 28.30 tons OC/rolling, 12-month period (See A.I.2.b.)

2. Additional Terms and Conditions

- a. The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-02(A) (2).
- b. The permittee has requested federally enforceable combined emission limitations for compression molding and scrap generation from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038. The federally enforceable emission limitations are based on sheet molding compound (SMC) usage restrictions (see A.II.1) and are being established for the purposes of maintaining the facility's status as a PSD "minor".
- c. The 1.75 lbs OC/hr and 5.25 tons OC/year emission limitations were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and reporting requirements to ensure compliance with these limitations.
- d. This emissions unit is not subject to the requirements specified in OAC rule 3745-21-07(G) because no liquid organic material, as defined in OAC rule 3745-21-01(C)(3), enters the SMC press as a separate raw material.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. The maximum annual SMC usage for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed any of the following:
 - a. 2,000,000 lbs of preheated SMC;*
 - b. 56,600,000 lbs of non-preheated SMC;* and
 - c. 56,600,000 lbs of all SMC, combined (preheated and non-preheated).*

*The annual SMC usage restriction shall be based upon a rolling, 12-month summation of the monthly SMC input rates.
2. The maximum annual scrap generation for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed 56,600,000 lbs per rolling, 12-month period.
3. Raw scrap SMC shall be collected, at a minimum, every eight hours (i.e., at the end of each shift), weighed and placed in a closed container to minimize volatilization of additional styrene.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. In order to demonstrate compliance with the usage restrictions in condition A.II.1. and the allowable OC emission limitation of 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
 - a. the total mass of raw SMC used in all compression molding presses, non-preheated, in pounds;
 - b. the total mass of raw SMC preheated before use in all compression molding presses, in pounds;
 - c. the total mass of raw SMC used in all compression molding presses (a + b), in pounds;
 - d. the calculated OC emissions, in pounds, using the following equations;

$$\text{OC emissions (preheated)} = (\text{lbs/month, from section 1.b}) \times (0.0035 \text{ lb OC/lb SMC})^*$$

$$\text{OC emissions (non-preheated)} = (\text{lbs/month, from section 1.a}) \times (0.002 \text{ lb OC/lb SMC})^*$$

$$\text{total OC emissions (tons/month)} = [\text{OC emissions (preheated)} + \text{OC emissions (non-preheated)}] / 2000$$

*Emission factors were supplied by permittee and were based on emission testing.
 - e. the rolling, 12-month summation of the monthly SMC usage rates, in pounds, for the non-preheated, preheated, and total (preheated and non-preheated) SMC usages, and the rolling, 12-month summation of the monthly OC emission rates, in tons.
2. In order to demonstrate compliance with the usage restrictions in condition A.II.2 and the allowable OC emission limitation of 28.3 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
 - a. the company identification of each type of scrap SMC generated;
 - b. the total mass of scrap SMC generated, in pounds;
 - c. the styrene content of each type of scrap SMC generated, in %, by weight;
 - d. the weight, in pounds, of each type of scrap SMC generated;
 - e. the calculated average styrene content for all the scrap SMC generated, in weight % (summation of 2.c x 2.d, divided by the summation of 2.d for all SMC material, and multiplied by 100%);
 - f. the total mass of OC emissions generated by all molding presses (b x e x 0.40 volatilization factor*), in pounds; and

*Emission factor supplied by permittee and was based on emission testing.

- g. the rolling, 12-month summation of the SMC scrap generation, in pounds, and the rolling, 12-month summation of monthly OC emissions, in tons.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all exceedances the rolling, 12-month OC emission limitation of 58.1 tons (for SMC compression molding from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
2. The permittee shall submit deviation (excursion) reports that identify all exceedances of the rolling, 12-month OC emission limitation of 28.3 tons (for scrap generation from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
3. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC usage restrictions of 2,000,000 lbs of preheated SMC, 56,600,000 lbs of non-preheated SMC, and 56,600,000 lbs of all SMC combined (preheated and non-preheated) [from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined]. These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
4. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC scrap generation restriction of 56,600,000 lbs (from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
5. The permittee shall submit annual reports that specify the total OC emissions from SMC compression molding, the total OC emissions from scrap generation, the total SMC usage (preheated, non-preheated and combined) [in pounds], and the total scrap SMC generated (in pounds) for the previous calendar year. These reports shall be submitted by January 31 of each year, and shall cover the previous calendar year.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. Compliance with the emission limitation in Section A.I. of these terms and conditions shall be determined in accordance with the following method:
 - a. Emission Limitations:

1.75 lbs OC/hour and 5.75 tons OC/year (molding only)

Applicable Compliance Method:
Compliance with the hourly allowable OC emission limitation may be determined by multiplying the maximum hourly SMC usage rate (lbs/hr) by a worst-case emission factor of 0.0035 pounds of OC per pound of SMC.*

*Emission factor supplied by permittee and was based on emission testing.

Compliance with the annual emission limitation may be determined as follows:

 - i. multiply the maximum annual usage rate of preheated SMC (2,000,000 lbs/year) by a worst-case emission factor of 0.0035 lb OC/lb of SMC for preheated materials;
 - ii. multiply the maximum annual usage rate of non-preheated SMC (1,750,000 lbs/year) by a worst case emission factor of 0.002 lb OC/lb of SMC for non-preheated materials; and
 - iii. sum i. and ii. and then divide by 2000.
 - b. Emission Limitation:

OC emissions for sheet molding compound (SMC) usage shall not exceed 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).

Applicable Compliance Method:
Compliance shall be based on the record keeping requirements specified in section A.III.1. of this permit.
 - c. Emission Limitation:

OC emissions for scrap generation shall not exceed 28.30 tons OC per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirements specified in section A.III.2. of this

permit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 0388000002 Issuance type: Title V Preliminary Proposed Permit

[Go to the top of this document](#)

Facility ID: 0388000002 Emissions Unit ID: P034 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

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

1. None.

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

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

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 0388000002 Issuance type: Title V Preliminary Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: P035 Issuance type: Title V Preliminary Proposed Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
compression sheet molding press #23	OAC rule 3745-31-05 (PTI #03-13557)	compression molding- 0.88 lb organic compound (OC)/hour, 3.28 tons OC/year (See A.I.2.a and A.I.2.c.)
	OAC rule 3745-31-05(D) (PTI 03-13557)	combined limit of 58.1 tons OC/rolling, 12-month period (See A.I.2.b.)
	40 CFR, Part 63, Subpart 112(g)	scrap generation- combined limit of 28.30 tons OC/rolling, 12-month period (See A.I.2.b.) See A.II.4.

2. Additional Terms and Conditions

- a. The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) and 40 CFR, Part 63, Subpart 112(g).
- b. The permittee has requested federally enforceable combined emission limitations for compression molding and scrap generation from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038. The federally enforceable emission limitations are based on sheet molding compound (SMC) usage restrictions (see A.II.1) and are being established for the purposes of maintaining the facility's status as a PSD "minor".
- c. The 0.88 lb OC/hr and 3.28 tons OC/year emission limitations were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and reporting requirements to ensure compliance with these limitations.
- d. This emissions unit is not subject to the requirements specified in OAC rule 3745-21-07(G) because no liquid organic material, as defined in OAC rule 3745-21-01(C)(3), enters the SMC press as a separate raw material.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

*****THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.*****

II. Operational Restrictions

1. The maximum annual SMC usage for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed any of the following:
 - a. 2,000,000 lbs of preheated SMC;*
 - b. 56,600,000 lbs of non-preheated SMC;* and
 - c. 56,600,000 lbs of all SMC, combined (preheated and non-preheated).*

*The annual SMC usage restriction shall be based upon a rolling, 12-month summation of the monthly SMC input rates.
2. The maximum annual scrap generation for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed 56,600,000 lbs per rolling, 12-month period.
3. Raw scrap SMC shall be collected, at a minimum, every eight hours (i.e., at the end of each shift), weighed and placed in a closed container to minimize volatilization of additional styrene.
4. The permittee shall keep uncovered, unwrapped, or exposed only 1 (one) SMC charge per mold per cycle per compression molding machine (press).

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. In order to demonstrate compliance with the usage restrictions in condition A.II.1. and the allowable OC emission limitation of 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
 - a. the total mass of raw SMC used in all compression molding presses, non-preheated, in pounds;
 - b. the total mass of raw SMC preheated before use in all compression molding presses, in pounds;
 - c. the total mass of raw SMC used in all compression molding presses (a + b), in pounds;
 - d. the calculated OC emissions, in pounds, using the following equations;

$$\text{OC emissions (preheated)} = (\text{lbs/month, from section 1.b}) \times (0.0035 \text{ lb OC/lb SMC})^*$$

$$\text{OC emissions (non-preheated)} = (\text{lbs/month, from section 1.a}) \times (0.002 \text{ lb OC/lb SMC})^*$$

$$\text{total OC emissions (tons/month)} = [\text{OC emissions (preheated)} + \text{OC emissions (non-preheated)}] / 2000$$

*Emission factors were supplied by permittee and were based on emission testing.
 - e. the rolling, 12-month summation of the monthly SMC usage rates in pounds, for non-preheated, preheated, and total (preheated and non-preheated) SMC usage and the rolling, 12-month summation of the monthly OC emission rates, in tons.
2. In order to demonstrate compliance with the usage restrictions in condition A.II.2 and the allowable OC emission limitation of 28.3 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
 - a. the company identification of each type of scrap SMC generated;
 - b. the total mass of scrap SMC generated, in pounds;
 - c. the styrene content of each type of scrap SMC generated, in %, by weight;
 - d. the weight, in pounds, of each type of scrap SMC generated;
 - e. the calculated average styrene content for all the scrap SMC generated, in weight % (summation of 2.c x 2.d, divided by the summation of 2.d for all SMC material, and multiplied by 100%);
 - f. the total mass of OC emissions generated by all molding presses (b x e x 0.40 volatilization factor*), in pounds; and
 - g. the rolling, 12-month summation of the SMC scrap generation, in pounds, and the rolling, 12-month summation of monthly OC emissions, in tons.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all exceedances the rolling, 12-month OC emission limitation of 58.1 tons (for SMC compression molding from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
2. The permittee shall submit deviation (excursion) reports that identify all exceedances of the rolling, 12-month OC emission limitation of 28.3 tons (for scrap generation from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
3. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC usage restrictions of 2,000,000 lbs of preheated SMC, 56,600,000 lbs of non-preheated SMC, and 56,600,000 lbs of all SMC combined (preheated and non-preheated) [from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022,

P024, P025, P033, P034, P035, P036, P037 and P038, combined]. These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.

4. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC scrap generation restriction of 56,600,000 lbs (from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
5. The permittee shall submit annual reports that specify the total OC emissions from SMC compression molding, the total OC emissions from scrap generation, the total SMC usage (preheated, non-preheated and combined)(in pounds), and the total scrap SMC generated (in pounds) for the previous calendar year. These reports shall be submitted by January 31 of each year, and shall cover the previous calendar year.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

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

- a. Emission Limitations:
0.88 lb OC/hour and 3.28 tons OC/year (molding only)

Applicable Compliance Method:

Compliance with the hourly allowable OC emission limitation may be determined by multiplying the maximum hourly SMC usage rate (lbs/hr) by a worst case emission factor of 0.0035 pounds of OC per pound of SMC.*

*Emission factor supplied by permittee and was based on emission testing.

Compliance with the annual emission limitation may be determined as follows:

i. multiply the maximum annual usage rate of preheated SMC (1,875,000 lbs/year) by a worst-case emission factor of 0.0035 lbs OC/lb of SMC for preheated materials; and

ii. divide i by 2000.

- b. Emission Limitation:
OC emissions for sheet molding compound (SMC) usage shall not exceed 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).

Applicable Compliance Method:

Compliance shall be based on the record keeping requirements specified in section A.III.1. of this permit.

- c. Emission Limitation:
OC emissions for scrap generation shall not exceed 28.30 tons OC per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements specified in section A.III.2. of this permit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: P035 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

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

1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
compression sheet molding press #23	none	none
2. Additional Terms and Conditions		
1. None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

1. The permit to install for this emissions units P035, P036, P037, and P038 was evaluated based on the actual materials (SMC material usage and scrap material generation) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: styrene
 TLV: 85.20 mg/m3
 Emissions Rate: 6.21 lbs/hr*
 Modeled Ground Level Concentration: 51.52 ug/m3
 Maximum Acceptable Ground Level Concentration: 2029 ug/m3

*Maximum hourly emission rate was calculated by using the maximum pounds of OC per hour from each press plus the average pounds of OC per hour from scrap sheet molding compound.

2. Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:
- changes in the composition of the materials used (coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
 - changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
 - physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).
- If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.
3. The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"
- a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
 - documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
 - where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: P036 Issuance type: Title V Preliminary Proposed Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
compression sheet molding press #40	OAC rule 3745-31-05 (PTI #03-13557)	compression molding- 1.75 lb organic compound (OC)/hour, 5.25 tons OC/year (See A.I.2.a and A.I.2.c.)
	OAC rule 3745-31-05(D) (PTI 03-13557)	combined limit of 58.1 tons OC/rolling, 12-month period (See A.I.2.b.)
	40 CFR, Part 63, Subpart 112(g)	scrap generation- combined limit of 28.30 tons OC/rolling, 12-month period (See A.I.2.b.) See A.II.4.

2. Additional Terms and Conditions

- a. The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) and 40 CFR, Part 63, Subpart 112(g).
- b. The permittee has requested federally enforceable combined emission limitations for compression molding and scrap generation from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038. The federally enforceable emission limitations are based on sheet molding compound (SMC) usage restrictions (see A.II.1) and are being established for the purposes of maintaining the facility's status as a PSD "minor".
- c. The 1.75 lbs OC/hr and 5.25 tons OC/year emission limitations were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and reporting requirements to ensure compliance with these limitations.
- d. This emissions unit is not subject to the requirements specified in OAC rule 3745-21-07(G) because no liquid organic material, as defined in OAC rule 3745-21-01(C)(3), enters the SMC press as a separate raw material.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

1. The maximum annual SMC usage for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed any of the following:
 - a. 2,000,000 lbs of preheated SMC;*
 - b. 56,600,000 lbs of non-preheated SMC;* and
 - c. 56,600,000 lbs of all SMC, combined (preheated and non-preheated).*

*The annual SMC usage restriction shall be based upon a rolling, 12-month summation of the monthly SMC input rates.
2. The maximum annual scrap generation for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed 56,600,000 lbs per rolling, 12-month period.
3. Raw scrap SMC shall be collected, at a minimum, every eight hours (i.e., at the end of each shift), weighed and placed in a closed container to minimize volatilization of additional styrene.
4. The permittee shall keep uncovered, unwrapped, or exposed only 1 (one) SMC charge per mold per cycle per compression molding machine (press).

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

1. In order to demonstrate compliance with the usage restrictions in condition A.II.1. and the allowable OC emission limitation of 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
 - a. the total mass of raw SMC used in all compression molding presses, non-preheated, in pounds;
 - b. the total mass of raw SMC preheated before use in all compression molding presses, in pounds;
 - c. the total mass of raw SMC used in all compression molding presses (a + b), in pounds;
 - d. the calculated OC emissions, in pounds, using the following equations:

OC emissions (preheated) = (lbs/month, from section 1.b) x (0.0035 lb OC/lb SMC)*

OC emissions (non-preheated) = (lbs/month, from section 1.a) x (0.002 lb OC/lb SMC)*

total OC emissions (tons/month) = [OC emissions (preheated) + OC emissions (non-preheated)] / 2000

*Emission factors were supplied by permittee and were based on emission testing.
 - e. the rolling, 12-month summation of the monthly SMC usage rates in pounds, for non-preheated, preheated, and total (preheated and non-preheated) SMC usage and the rolling, 12-month summation of the monthly OC emission rates, in tons.
2. In order to demonstrate compliance with the usage restrictions in condition A.II.2 and the allowable OC emission limitation of 28.3 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
 - a. the company identification of each type of scrap SMC generated;
 - b. the total mass of scrap SMC generated, in pounds;
 - c. the styrene content of each type of scrap SMC generated, in %, by weight;
 - d. the weight, in pounds, of each type of scrap SMC generated;
 - e. the calculated average styrene content for all the scrap SMC generated, in weight % (summation of 2.c x 2.d, divided by the summation of 2.d for all SMC material, and multiplied by 100%);
 - f. the total mass of OC emissions generated by all molding presses (b x e x 0.40 volatilization factor*), in pounds; and

- g. the rolling, 12-month summation of the SMC scrap generation, in pounds, and the rolling, 12-month summation of monthly OC emissions, in tons.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all exceedances the rolling, 12-month OC emission limitation of 58.1 tons (for SMC compression molding from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
2. The permittee shall submit deviation (excursion) reports that identify all exceedances of the rolling, 12-month OC emission limitation of 28.3 tons (for scrap generation from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
3. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC usage restrictions of 2,000,000 lbs of preheated SMC, 56,600,000 lbs of non-preheated SMC, and 56,600,000 lbs of all SMC combined (preheated and non-preheated) [from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined]. These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
4. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC scrap generation restriction of 56,600,000 lbs (from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
5. The permittee shall submit annual reports that specify the total OC emissions from SMC compression molding, the total OC emissions from scrap generation, the total SMC usage (preheated, non-preheated and combined) [in pounds], and the total scrap SMC generated (in pounds) for the previous calendar year. These reports shall be submitted by January 31 of each year, and shall cover the previous calendar year.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. Compliance with the emission limitation in Section A.I. of these terms and conditions shall be determined in accordance with the following method:
 - a. Emission Limitations:

1.75 lb OC/hour and 5.25 tons OC/year (molding only)

Applicable Compliance Method:
Compliance with the hourly allowable OC emission limitation may be determined by multiplying the maximum hourly SMC usage rate (lbs/hr) by a worst case emission factor of 0.0035 pounds of OC per pound of SMC.*

*Emission factor supplied by permittee and was based on emission testing.

Compliance with the annual emission limitation may be determined as follows:

 - i. multiply the maximum annual usage rate of preheated SMC (2,000,000 lbs/year) by a worst case emission factor of 0.0035 lbs OC/lb of SMC for preheated materials;
 - ii. multiply the maximum annual usage rate of non-preheated SMC (1,750,000 lbs/year) by a worst case emission factor of 0.002 lb OC/lb of SMC for non-preheated materials; and
 - iii. sum i. and ii. and then divide by 2000.
 - b. Emission Limitation:

OC emissions for sheet molding compound (SMC) usage shall not exceed 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).

Applicable Compliance Method:
Compliance shall be based on the record keeping requirements specified in section A.III.1. of this permit.
 - c. Emission Limitation:

OC emissions for scrap generation shall not exceed 28.30 tons OC per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirements specified in section A.III.2. of this permit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 0388000002 Issuance type: Title V Preliminary Proposed Permit

[Go to the top of this document](#)

Facility ID: 0388000002 Emissions Unit ID: P036 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

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

1. None.

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

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

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	compression sheet molding press #40	none	none
2.	Additional Terms and Conditions		
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

1. The permit to install for this emissions units P035, P036, P037, and P038 was evaluated based on the actual materials (SMC material usage and scrap material generation) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: styrene
 TLV: 85.20 mg/m3
 Emissions Rate: 6.21 lbs/hr*
 Modeled Ground Level Concentration: 51.52 ug/m3
 Maximum Acceptable Ground Level Concentration: 2029 ug/m3

*Maximum hourly emission rate was calculated by using the maximum pounds of OC per hour from each press plus the average pounds of OC per hour from scrap sheet molding compound.

2. Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be still satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

- a. changes in the composition of the materials used (coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;

b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and

c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

3. The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"

a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);

b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and

c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: P037 Issuance type: Title V Preliminary Proposed Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
compression sheet molding press #42	OAC rule 3745-31-05 (PTI #03-13557)	compression molding- 1.75 lb organic compound (OC)/hour, 5.25 tons OC/year (See A.1.2.a and A.1.2.c.)
	OAC rule 3745-31-05(D) (PTI 03-13557)	combined limit of 58.1 tons OC/rolling, 12-month period (See A.1.2.b.) scrap generation- combined limit of 28.30 tons

OC/rolling, 12-month period (See A.I.2.b.)
See A.II.4.
40 CFR, Part 63, Subpart 112(g)

2. **Additional Terms and Conditions**

- a. The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) and 40 CFR, Part 63, Subpart 112(g).
- b. The permittee has requested federally enforceable combined emission limitations for compression molding and scrap generation from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038. The federally enforceable emission limitations are based on sheet molding compound (SMC) usage restrictions (see A.II.1) and are being established for the purposes of maintaining the facility's status as a PSD "minor".
- c. The 1.75 lbs OC/hr and 5.25 tons OC/year emission limitations were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and reporting requirements to ensure compliance with these limitations.
- d. This emissions unit is not subject to the requirements specified in OAC rule 3745-21-07(G) because no liquid organic material, as defined in OAC rule 3745-21-01(C)(3), enters the SMC press as a separate raw material.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

1. The maximum annual SMC usage for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed any of the following:
 - a. 2,000,000 lbs of preheated SMC;*
 - b. 56,600,000 lbs of non-preheated SMC;* and
 - c. 56,600,000 lbs of all SMC, combined (preheated and non-preheated).*

*The annual SMC usage restriction shall be based upon a rolling, 12-month summation of the monthly SMC input rates.
2. The maximum annual scrap generation for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed 56,600,000 lbs per rolling, 12-month period.
3. Raw scrap SMC shall be collected, at a minimum, every eight hours (i.e., at the end of each shift), weighed and placed in a closed container to minimize volatilization of additional styrene.
4. The permittee shall keep uncovered, unwrapped, or exposed only 1 (one) SMC charge per mold per cycle per compression molding machine (press).

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

1. In order to demonstrate compliance with the usage restrictions in condition A.II.1. and the allowable OC emission limitation of 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
 - a. the total mass of raw SMC used in all compression molding presses, non-preheated, in pounds;
 - b. the total mass of raw SMC preheated before use in all compression molding presses, in pounds;
 - c. the total mass of raw SMC used in all compression molding presses (a + b), in pounds;
 - d. the calculated OC emissions, in pounds, using the following equations:

$$\text{OC emissions (preheated)} = (\text{lbs/month, from section 1.b}) \times (0.0035 \text{ lb OC/lb SMC})^*$$

$$\text{OC emissions (non-preheated)} = (\text{lbs/month, from section 1.a}) \times (0.002 \text{ lb OC/lb SMC})^*$$

$$\text{total OC emissions (tons/month)} = [\text{OC emissions (preheated)} + \text{OC emissions (non-preheated)}] / 2000$$

*Emission factors were supplied by permittee and were based on emission testing.
 - e. the rolling, 12-month summation of the monthly SMC usage rates in pounds, for non-preheated, preheated, and total (preheated and non-preheated) SMC usage and the rolling, 12-month summation of the monthly OC emission rates, in tons.

2. In order to demonstrate compliance with the usage restrictions in condition A.II.2 and the allowable OC emission limitation of 28.3 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
 - a. the company identification of each type of scrap SMC generated;
 - b. the total mass of scrap SMC generated, in pounds;
 - c. the styrene content of each type of scrap SMC generated, in %, by weight;
 - d. the weight, in pounds, of each type of scrap SMC generated;
 - e. the calculated average styrene content for all the scrap SMC generated, in weight % (summation of 2.c x 2.d, divided by the summation of 2.d for all SMC material, and multiplied by 100%);
 - f. the total mass of OC emissions generated by all molding presses (b x e x 0.40 volatilization factor*), in pounds; and
 - g. the rolling, 12-month summation of the SMC scrap generation, in pounds, and the rolling, 12-month summation of monthly OC emissions, in tons.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all exceedances the rolling, 12-month OC emission limitation of 58.1 tons (for SMC compression molding from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
2. The permittee shall submit deviation (excursion) reports that identify all exceedances of the rolling, 12-month OC emission limitation of 28.3 tons (for scrap generation from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
3. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC usage restrictions of 2,000,000 lbs of preheated SMC, 56,600,000 lbs of non-preheated SMC, and 56,600,000 lbs of all SMC combined (preheated and non-preheated) [from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined]. These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
4. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC scrap generation restriction of 56,600,000 lbs (from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
5. The permittee shall submit annual reports that specify the total OC emissions from SMC compression molding, the total OC emissions from scrap generation, the total SMC usage (preheated, non-preheated and combined)[in pounds], and the total scrap SMC generated (in pounds) for the previous calendar year. These reports shall be submitted by January 31 of each year, and shall cover the previous calendar year.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. Compliance with the emission limitation in Section A.I. of these terms and conditions shall be determined in accordance with the following method:
 - a. Emission Limitations:
1.75 lb OC/hour and 5.25 tons OC/year (molding only)

Applicable Compliance Method:
Compliance with the hourly allowable OC emission limitation may be determined by multiplying the maximum hourly SMC usage rate (lbs/hr) by a worst case emission factor of 0.0035 pounds of OC per pound of SMC.*

*Emission factor supplied by permittee and was based on emission testing.

Compliance with the annual emission limitation may be determined as follows:

- i. multiply the maximum annual usage rate of preheated SMC (2,000,000 lbs/year) by a worst case emission factor of 0.0035 lbs OC/lb of SMC for preheated materials;
 - ii. multiply the maximum annual usage rate of non-preheated SMC (1,750,000 lbs/year) by a worst case emission factor of 0.002 lb OC/lb of SMC for non-preheated materials; and
 - iii. sum i. and ii. and then divide by 2000.
- b. Emission Limitation:
 OC emissions for sheet molding compound (SMC) usage shall not exceed 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).
- Applicable Compliance Method:
 Compliance shall be based on the record keeping requirements specified in section A.III.1. of this permit.
- c. Emission Limitation:
 OC emissions for scrap generation shall not exceed 28.30 tons OC per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).
- Applicable Compliance Method:
 Compliance shall be based upon the record keeping requirements specified in section A.III.2. of this permit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: P037 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

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

- 1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
compression sheet molding press #42	none	none
2. Additional Terms and Conditions		
1. None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

- 1. The permit to install for this emissions units P035, P036, P037, and P038 was evaluated based on the actual

materials (SMC material usage and scrap material generation) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: styrene
 TLV: 85.20 mg/m³
 Emissions Rate: 6.21 lbs/hr*
 Modeled Ground Level Concentration: 51.52 ug/m³
 Maximum Acceptable Ground Level Concentration: 2029 ug/m³

*Maximum hourly emission rate was calculated by using the maximum pounds of OC per hour from each press plus the average pounds of OC per hour from scrap sheet molding compound.

2. Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

a. changes in the composition of the materials used (coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;

b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and

c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

3. The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy":
 - a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
 - b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
 - c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: P038 Issuance type: Title V Preliminary Proposed Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
compression sheet molding press #43	OAC rule 3745-31-05 (PTI #03-13557)	compression molding- 1.75 lb organic compound (OC)/hour, 5.25 tons OC/year (See A.I.2.a and A.I.2.c.)
	OAC rule 3745-31-05(D) (PTI 03-13557)	combined limit of 58.1 tons OC/rolling, 12-month period (See A.I.2.b.)
	40 CFR, Part 63, Subpart 112(g)	scrap generation- combined limit of 28.30 tons OC/rolling, 12-month period (See A.I.2.b.) See A.II.4.

2. Additional Terms and Conditions

- a. The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) and 40 CFR, Part 63, Subpart 112(g).
- b. The permittee has requested federally enforceable combined emission limitations for compression molding and scrap generation from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038. The federally enforceable emission limitations are based on sheet molding compound (SMC) usage restrictions (see A.II.1) and are being established for the purposes of maintaining the facility's status as a PSD "minor".
- c. The 1.75 lbs OC/hr and 5.25 tons OC/year emission limitations were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and reporting requirements to ensure compliance with these limitations.
- d. This emissions unit is not subject to the requirements specified in OAC rule 3745-21-07(G) because no liquid organic material, as defined in OAC rule 3745-21-01(C)(3), enters the SMC press as a separate raw material.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. The maximum annual SMC usage for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed any of the following:
 - a. 2,000,000 lbs of preheated SMC;*
 - b. 56,600,000 lbs of non-preheated SMC;* and
 - c. 56,600,000 lbs of all SMC, combined (preheated and non-preheated).*

*The annual SMC usage restriction shall be based upon a rolling, 12-month summation of the monthly SMC input rates.
2. The maximum annual scrap generation for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined, shall not exceed 56,600,000 lbs per rolling, 12-month period.
3. Raw scrap SMC shall be collected, at a minimum, every eight hours (i.e., at the end of each shift), weighed and placed in a closed container to minimize volatilization of additional styrene.
4. The permittee shall keep uncovered, unwrapped, or exposed only 1 (one) SMC charge per mold per cycle per compression molding machine (press).

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. In order to demonstrate compliance with the usage restrictions in condition A.II.1. and the allowable OC

- emission limitation of 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
- a. the total mass of raw SMC used in all compression molding presses, non-preheated, in pounds;
 - b. the total mass of raw SMC preheated before use in all compression molding presses, in pounds;
 - c. the total mass of raw SMC used in all compression molding presses (a + b), in pounds;
 - d. the calculated OC emissions, in pounds, using the following equations;
 - OC emissions (preheated) = (lbs/month, from section 1.b) x (0.0035 lb OC/lb SMC)*
 - OC emissions (non-preheated) = (lbs/month, from section 1.a) x (0.002 lb OC/lb SMC)*
 - total OC emissions (tons/month) = [OC emissions (preheated) + OC emissions (non-preheated)] / 2000
 - *Emission factors were supplied by permittee and were based on emission testing.
 - e. the rolling, 12-month summation of the monthly SMC usage rates in pounds, for non-preheated, preheated, and total (preheated and non-preheated) SMC usage and the rolling, 12-month summation of the monthly OC emission rates, in tons.
2. In order to demonstrate compliance with the usage restrictions in condition A.II.2 and the allowable OC emission limitation of 28.3 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined), the permittee shall collect and record the following information for each month for all the emissions units, combined:
- a. the company identification of each type of scrap SMC generated;
 - b. the total mass of scrap SMC generated, in pounds;
 - c. the styrene content of each type of scrap SMC generated, in %, by weight;
 - d. the weight, in pounds, of each type of scrap SMC generated;
 - e. the calculated average styrene content for all the scrap SMC generated, in weight % (summation of 2.c x 2.d, divided by the summation of 2.d for all SMC material, and multiplied by 100%);
 - f. the total mass of OC emissions generated by all molding presses (b x e x 0.40 volatilization factor*), in pounds; and
 - g. the rolling, 12-month summation of the SMC scrap generation, in pounds, and the rolling, 12-month summation of monthly OC emissions, in tons.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all exceedances the rolling, 12-month OC emission limitation of 58.1 tons (for SMC compression molding from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
2. The permittee shall submit deviation (excursion) reports that identify all exceedances of the rolling, 12-month OC emission limitation of 28.3 tons (for scrap generation from P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
3. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC usage restrictions of 2,000,000 lbs of preheated SMC, 56,600,000 lbs of non-preheated SMC, and 56,600,000 lbs of all SMC combined (preheated and non-preheated) [from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined]. These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
4. The permittee shall submit deviation (excursion) reports that identify all exceedances of the combined maximum annual SMC scrap generation restriction of 56,600,000 lbs (from emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033,

P034, P035, P036, P037 and P038, combined). These deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.

5. The permittee shall submit annual reports that specify the total OC emissions from SMC compression molding, the total OC emissions from scrap generation, the total SMC usage (preheated, non-preheated and combined)[in pounds], and the total scrap SMC generated (in pounds) for the previous calendar year. These reports shall be submitted by January 31 of each year, and shall cover the previous calendar year.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

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

- a. Emission Limitations:
1.75 lb OC/hour and 5.25 tons OC/year (molding only)

Applicable Compliance Method:

Compliance with the hourly allowable OC emission limitation may be determined by multiplying the maximum hourly SMC usage rate (lbs/hr) by a worst case emission factor of 0.0035 pounds of OC per pound of SMC.*

*Emission factor supplied by permittee and was based on emission testing.

Compliance with the annual emission limitation may be determined as follows:

- i. multiply the maximum annual usage rate of preheated SMC (2,000,000 lbs/year) by a worst case emission factor of 0.0035 lbs OC/lb of SMC for preheated materials;
- ii. multiply the maximum annual usage rate of non-preheated SMC (1,750,000 lbs/year) by a worst case emission factor of 0.002 lb OC/lb of SMC for non-preheated materials; and
- iii. sum i. and ii. and then divide by 2000.

- b. Emission Limitation:
OC emissions for sheet molding compound (SMC) usage shall not exceed 58.10 tons per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).

Applicable Compliance Method:

Compliance shall be based on the record keeping requirements specified in section A.III.1. of this permit.

- c. Emission Limitation:
OC emissions for scrap generation shall not exceed 28.30 tons OC per rolling, 12-month period (for emissions units P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P024, P025, P033, P034, P035, P036, P037 and P038, combined).

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements specified in section A.III.2. of this permit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 0388000002 Issuance type: Title V Preliminary Proposed Permit

[Go to the top of this document](#)

Facility ID: 0388000002 Emissions Unit ID: P038 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

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

1. None.

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

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

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
compression sheet molding press #43	none	none

2. **Additional Terms and Conditions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

1. The permit to install for this emissions units P035, P036, P037, and P038 was evaluated based on the actual materials (SMC material usage and scrap material generation) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: styrene
 TLV: 85.20 mg/m3
 Emissions Rate: 6.21 lbs/hr*
 Modeled Ground Level Concentration: 51.52 ug/m3
 Maximum Acceptable Ground Level Concentration: 2029 ug/m3

*Maximum hourly emission rate was calculated by using the maximum pounds of OC per hour from each press plus the average pounds of OC per hour from scrap sheet molding compound.

2. Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be still satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

a. changes in the composition of the materials used (coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;

b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and

c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

3. The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"

a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);

b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and

c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: P901 Issuance type: Title V Preliminary Proposed Permit

A. State and Federally Enforceable Section

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

- 1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
secondary finishing operation of fiberglass reinforced plastic parts, with 5 baghouses	OAC rule 3745-31-05(A) (PTI 03-13649)	0.87 lb particulate emissions (PE)/hour, 3.82 tons PE/year, from stack emissions See A.I.2.a. See A.I.2.b.
	OAC rule 3745-17-07(B)	5.96 tons PE/year, from fugitive emissions Visible fugitive PE shall not exceed 20% opacity, as a three-minute average.
	OAC rule 3745-17-08(B)	See A.I.2.c.
	OAC rule 3745-17-11(B)(1)	See A.I.2.c.
	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

2. **Additional Terms and Conditions**

- a. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07 (A) and 3745-17-07(B)(1).
- b. Best available technology (BAT) for this emission unit has been determined to be use of baghouses with a maximum outlet concentration of 0.004 gr/dscf and the use of best available control measures for fugitive dust control (see A.I.2.d).
- c. The emission limitation/control requirements specified by this rule is less stringent than the emission limitation/control requirements established pursuant to OAC rule 3745-31-05(A)(3).
- d. The permittee shall employ best available control measures on all the PE from secondary finishing operations not captured and controlled by a baghouse system, for the purpose of ensuring compliance with the above mentioned applicable requirements. Secondary finishing operations shall be contained within facility building (enclosure control) to ensure compliance.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the baghouses serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible fugitive emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from all the baghouses serving this emissions unit and from the building containing the emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible fugitive particulate emissions were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

1. Compliance with the emission limitation in Section A.I. of these terms and conditions shall be determined in accordance with the following method:
 - a. Emission Limitations:
0.87 lbs PE/hour and 3.82 tons PE/year, from stack emissions

Applicable Compliance Method:
Compliance with the hourly PE limitation may be determined by using the following equation:

$$PE \text{ (baghouse stack)} = (SZA) + (SZB) + (SZC) + (SZD) + (SZE)$$

SZA = PE from Spencer Zone A baghouse system
 SZA = (0.004 gr/dscf)(8000 dscf/min)(60 min/hr)(1 lb/7000 gr)
 SZA = 0.27 lb PE/hr

SZB = PE from Spencer Zone B baghouse system
 SZB = (0.004 gr/dscf)(4500 dscf/min)(60 min/hr)(1 lb/7000 gr)
 SZB = 0.15 lb PE/hr

SZC = PE from Spencer Zone C baghouse system
 SZC = (0.004 gr/dscf)(4500 dscf/min)(60 min/hr)(1 lb/7000 gr)
 SZC = 0.15 lb PE/hr

SZD = PE from Spencer Zone D baghouse system
 SZD = (0.004 gr/dscf)(4500 dscf/min)(60 min/hr)(1 lb/7000 gr)
 SZD = 0.15 lb PE/hr

SZE = PE from Spencer Zone E baghouse system
 SZE = (0.004 gr/dscf)(4500 dscf/min)(60 min/hr)(1 lb/7000 gr)
 SZE = 0.15 lb PE/hr

If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation above pursuant to Methods 1 - 5 of 40 CFR, Part 60, Appendix A.

The annual limitation was developed by multiplying the hourly limitation by 8760, and then dividing by 2000. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

- b. Emission Limitation:
 5.96 tons PE/year (fugitive emissions)

Applicable Compliance Method:

Fugitive particulate emissions are exhausted through the ventilation system of the building containing the secondary finishing operations. The company-supplied emission factor of 3.14×10^{-6} lb PE/ft³ was derived from actual testing of the air in the secondary finishing operations building. The annual emission limitation was developed using the company-supplied emission factor, a maximum volumetric flow rate of 43,366,500 ft³ per hour from the building ventilation system, a maximum operating schedule of 8,760 hour per year, and dividing by 2000 lbs/ton. The tons per year limitation represents the potential to emit of fugitive particulate emissions; therefore, no record keeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with this limitation.

- c. Emission Limitation:
 0.004 gr/dscf

Applicable Compliance Method:

The permittee may demonstrate compliance based on a manufacturer's guaranteed outlet grain loading of 0.004 gr/dscf. If required, the permittee shall demonstrate compliance with the PE limitation above pursuant to Methods 1 - 5 of 40 CFR, Part 60, Appendix A.

- d. Emission Limitation:
 Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

Applicable Compliance Method:

If required, compliance shall be demonstrated in accordance with the methods in OAC rule 3745-17-03(B) (1).

- e. Emission Limitation:
 Visible fugitive PE shall not exceed 20 % opacity, as a three-minute average.

Applicable Compliance Method:

If required, compliance shall be demonstrated in accordance with the method in OAC rule 3745-17-03(B) (3).

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: P901 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions		
1. None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: R005 Issuance type: Title V Preliminary Proposed Permit

A. State and Federally Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
spray booth #1, with water wash and baffles	OAC rule 3745-21-07(G)	none (See A.II.1.)
	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)	0.551 lb (PE)/hr

2. **Additional Terms and Conditions**
 - (a) None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. The permittee shall not employ any coating or cleanup material in this emissions unit that is a photochemically reactive material. "Photochemically reactive material" is defined in OAC rule 3745-21-01(C)(5).
2. The permittee shall operate the water wash and baffles at all times while the emissions unit is in operation.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain the following information for each month for this emissions unit:
 - a. the company identification for each coating and cleanup material employed; and
 - b. documentation on whether or not each coating or cleanup material employed is a photochemically reactive material.
2. The permittee shall maintain daily records that document any time periods when the water wash and baffles were not in service when the emissions unit was in operation.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any daily record showing that the water wash and baffles were not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA, Northwest District Office) within 30 days after the event occurs.
2. The permittee shall submit deviation (excursion) reports that identify all periods of time during which a photochemically reactive material was employed. Each report shall be submitted within 45 days after the deviation occurs.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. Compliance with the emission limitation(s) in the Applicable Emission Limitations and/or Control Requirements of these terms and conditions shall be determined in accordance with the following method (s):
 - a. Emission Limitation:

Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:
If required, compliance shall be determined through visible emissions observations performed in accordance with the methods specified in OAC rule 3745-17-03(B)(1).
 - b. Emission Limitation:

0.551 pound per hour of PE

Applicable Compliance Method:
To determine the actual worst case emission rate for PE, the following equation may be used:

$$E = (M) \times (1-TE) \times (1-CE)$$

where:

E = PE (lbs/hr)

M = maximum coating solids usage rate (lbs/hr)

TE = transfer efficiency of coating equipment (ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used, 0.60 considering 40 CFR Part 60.453)

CE = control efficiency of the control equipment (90% for the water wash and baffles)

[If more than one piece of control equipment is used in series, the equation should be multiplied by additional (1-CE) term for each additional piece of equipment.]

If required, the permittee shall demonstrate compliance with the PE limitation above in accordance with the methods specified in OAC rule 3745-17-03(B)(10).

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 0388000002 Issuance type: Title V Preliminary Proposed Permit

[Go to the top of this document](#)

Facility ID: 0388000002 Emissions Unit ID: R005 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

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

1. None.

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

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

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 0388000002 Issuance type: Title V Preliminary Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 0388000002 Emissions Unit ID: R006 Issuance type: Title V Preliminary Proposed Permit

A. State and Federally Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
spray booth #2, with water wash and baffles	OAC rule 3745-21-07(G)	none (See A.II.1.)
	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)	0.551 lb (PE)/hr

- 2. **Additional Terms and Conditions**
 - (a) None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

- 1. The permittee shall not employ any coating or cleanup material in this emissions unit that is a photochemically reactive material. "Photochemically reactive material" is defined in OAC rule 3745-21-01(C)(5).
- 2. The permittee shall operate the water wash and baffles at all times while the emissions unit is in operation.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

- 1. The permittee shall maintain the following information for each month for this emissions unit:
 - a. the company identification for each coating and cleanup material employed; and
 - b. documentation on whether or not each coating or cleanup material employed is a photochemically reactive material.
- 2. The permittee shall maintain daily records that document any time periods when the water wash and baffles were not in service when the emissions unit was in operation.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

- 1. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any daily record showing that the water wash and baffles were not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA, Northwest

District Office) within 30 days after the event occurs.

2. The permittee shall submit deviation (excursion) reports that identify all periods of time during which a photochemically reactive material was employed. Each report shall be submitted within 45 days after the deviation occurs.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. Compliance with the emission limitation(s) in the Applicable Emission Limitations and/or Control Requirements of these terms and conditions shall be determined in accordance with the following method (s):

- a. Emission Limitation:
Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with the methods specified in OAC rule 3745-17-03(B)(1).

- b. Emission Limitation:
0.551 pound per hour of PE

Applicable Compliance Method:

To determine the actual worst case emission rate for PE, the following equation may be used:

$$E = (M) \times (1-TE) \times (1-CE)$$

where:

$$E = PE \text{ (lbs/hr)}$$

M = maximum coating solids usage rate (lbs/hr)

TE = transfer efficiency of coating equipment (ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used, 0.60 considering 40 CFR Part 60.453)

CE = control efficiency of the control equipment (90% for the water wash and baffles)

[If more than one piece of control equipment is used in series, the equation should be multiplied by additional (1-CE) term for each additional piece of equipment.]

If required, the permittee shall demonstrate compliance with the PE limitation above in accordance with the methods specified in OAC rule 3745-17-03(B)(10).

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: R006 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

Applicable Emissions Limitations/Control

Operations, Property, and/or Equipment Applicable Rules/Requirements Measures

2. **Additional Terms and Conditions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: R007 Issuance type: Title V Preliminary Proposed Permit

A. State and Federally Enforceable Section

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

1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
spray booth #3, with water wash and baffles	OAC rule 3745-21-07(G)	none (See A.II.1.)
	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)	0.551 lb (PE)/hr

2. **Additional Terms and Conditions**

(a) None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. The permittee shall not employ any coating or cleanup material in this emissions unit that is a photochemically reactive material. "Photochemically reactive material" is defined in OAC rule 3745-21-01(C)(5).
2. The permittee shall operate the water wash and baffles at all times while the emissions unit is in operation.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain the following information for each month for this emissions unit:
 - a. the company identification for each coating and cleanup material employed; and
 - b. documentation on whether or not each coating or cleanup material employed is a photochemically reactive material.
2. The permittee shall maintain daily records that document any time periods when the water wash and baffles were not in service when the emissions unit was in operation.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any daily record showing that the water wash and baffles were not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA, Northwest District Office) within 30 days after the event occurs.
2. The permittee shall submit deviation (excursion) reports that identify all periods of time during which a photochemically reactive material was employed. Each report shall be submitted within 45 days after the deviation occurs.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. Compliance with the emission limitation(s) in the Applicable Emission Limitations and/or Control Requirements of these terms and conditions shall be determined in accordance with the following method (s):
 - a. Emission Limitation:
Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:
If required, compliance shall be determined through visible emissions observations performed in accordance with the methods specified in OAC rule 3745-17-03(B)(1).
 - b. Emission Limitation:
0.551 pound per hour of PE

Applicable Compliance Method:
To determine the actual worst case emission rate for PE, the following equation may be used:

$$E = (M) \times (1-TE) \times (1-CE)$$
 where:

$$E = PE \text{ (lbs/hr)}$$

$$M = \text{maximum coating solids usage rate (lbs/hr)}$$

$$TE = \text{transfer efficiency of coating equipment (ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used, 0.60 considering 40 CFR Part 60.453)}$$

$$CE = \text{control efficiency of the control equipment (90\% for the water wash and baffles)}$$

[If more than one piece of control equipment is used in series, the equation should be multiplied by additional (1-CE) term for each additional piece of equipment.]

If required, the permittee shall demonstrate compliance with the PE limitation above in accordance with the methods specified in OAC rule 3745-17-03(B)(10).

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: R007 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: R008 Issuance type: Title V Preliminary Proposed Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
spray booth #4, with water wash and baffles	OAC rule 3745-21-07(G)	none (See A.II.1.)
	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)	0.551 lb (PE)/hr

2. Additional Terms and Conditions

- (a) None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. The permittee shall not employ any coating or cleanup material in this emissions unit that is a photochemically reactive material. "Photochemically reactive material" is defined in OAC rule 3745-21-01(C)(5).
2. The permittee shall operate the water wash and baffles at all times while the emissions unit is in operation.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain the following information for each month for this emissions unit:
 - a. the company identification for each coating and cleanup material employed; and
 - b. documentation on whether or not each coating or cleanup material employed is a photochemically reactive material.
2. The permittee shall maintain daily records that document any time periods when the water wash and baffles were not in service when the emissions unit was in operation.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any daily record showing that the water wash and baffles were not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA, Northwest District Office) within 30 days after the event occurs.
2. The permittee shall submit deviation (excursion) reports that identify all periods of time during which a photochemically reactive material was employed. Each report shall be submitted within 45 days after the deviation occurs.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. Compliance with the emission limitation(s) in the Applicable Emission Limitations and/or Control Requirements of these terms and conditions shall be determined in accordance with the following method (s):
 - a. Emission Limitation:

Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in

accordance with the methods specified in OAC rule 3745-17-03(B)(1).

- b. Emission Limitation:
0.551 pound per hour of PE

Applicable Compliance Method:

To determine the actual worst case emission rate for PE, the following equation may be used:

$$E = (M) \times (1-TE) \times (1-CE)$$

where:

$$E = PE \text{ (lbs/hr)}$$

M = maximum coating solids usage rate (lbs/hr)

TE = transfer efficiency of coating equipment (ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used, 0.60 considering 40 CFR Part 60.453)

CE = control efficiency of the control equipment (90% for the water wash and baffles)

[If more than one piece of control equipment is used in series, the equation should be multiplied by additional (1-CE) term for each additional piece of equipment.]

If required, the permittee shall demonstrate compliance with the PE limitation above in accordance with the methods specified in OAC rule 3745-17-03(B)(10).

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: R008 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

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

- 1. None.

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

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

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: R009 Issuance type: Title V Preliminary Proposed Permit

A. State and Federally Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
downdraft main plastics paint booth, with cure oven and regenerative thermal oxidizer (RTO)	OAC rule 3745-31-05(A)(3) (PTI #03-13552)	7.60 lbs particulate emissions (PE)/hour, 33.30 tons PE/year See A.I.2.b.
	OAC rule 3745-31-02(A) (PTI #03-13552)	See A.I.2.c. 2.30 lbs organic compounds (OC)/hour, 10.10 tons OC/rolling, 12-month summation, from the coating usage 151.20 lbs OC/month, 0.91 ton OC/rolling, 12-month summation, from the cleanup materials usage
	OAC rule 3745-17-07(A)	See A.I.2.a. Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.
	OAC rule 3745-17-11(B) OAC rule 3745-21-07(G)(1) OAC rule 3745-21-07(G)(2)	See A.I.2.d. See A.I.2.e (for OC emissions from the oven). See A.I.2.e (for OC emissions from the booth).

2. Additional Terms and Conditions

- a. The best available technology (BAT) determination was made in accordance with a request by the permittee to voluntarily limit allowable emissions of OC to the following federally enforceable limitations:

- (a)
 - coating operations- 2.30 lbs OC/hour and 10.10 tons OC/rolling, 12-month summation
 - cleanup operations- 151.20 lbs OC/month and 0.91 ton OC/rolling, 12-month summation

The permittee has requested federally enforceable limitations for purposes of avoiding 112(g) MACT requirements.

- b. The OC emissions from this emission unit shall be controlled through the application of a permanent total enclosure with a 100% capture efficiency and regenerative thermal oxidizer system with a 98% removal/destruction efficiency.
- c. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07 (A) and 3745-31-02(A).
- d. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- e. The emission limitation/control requirements specified by this rule are less stringent than the emission limitation/control requirements established pursuant to OAC rule 3745-31-05(A).

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. The coating line shall be equipped with a permanent total enclosure (PTE)* which shall be installed and operated in accordance with 40 CFR Part 51, Appendix M, Method 204. The PTE shall meet the following criteria:
 - a. any "Natural Draft Opening" (NDO)* shall be at least 4 equivalent diameters from each OC emission point;
 - b. the total area of all NDOs shall not exceed 5% of the surface area of the enclosure's four walls, floor and ceiling;
 - c. the average facial velocity (FV) of air through all NDOs shall be at least 3,600 m/hr (200 fpm) which corresponds to a pressure differential of 0.007 inch of water, and the direction of air through all NDOs shall be into the enclosure;
 - d. all access doors and windows whose areas are not included in paragraph (b) and are not included in the calculation in paragraph (c) shall be closed during routine operation; and
 - e. all OC emissions must be captured and vented to the OC control devices.

By satisfying the above criteria for a permanent total enclosure, the OC capture efficiency shall be assumed to be 100%.
2. The permanent total enclosure shall be maintained under negative pressure, at a minimum pressure differential that is not less than the minimum pressure differential (inches of water) established during the most recent emission test that demonstrated the emissions unit was in compliance, whenever the emissions unit is in operation.
3. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emission unit was in operation, shall not be more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in operation.
4. The permittee shall operate the water wash system whenever this emissions unit is in operation.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder that measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.
2. The permittee shall maintain and operate monitoring devices and a recorder which simultaneously measure and record the pressure inside and outside the permanent total enclosure. The monitoring and recording devices shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall record and maintain the following information on a daily basis:

 - a. The difference in pressure between the permanent total enclosure and the surrounding area(s), in inches of water.
3. The permittee shall collect and record the following information for each day:
 - a. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in

- compliance.
- b. A log of the downtime for the capture (collection) system, control device and monitoring equipment when the associated emissions unit was in operation.
4. The permittee shall collect and record the following information for each month for the coating operation:
 - a. the company identification for each coating employed;
 - b. the number of gallons of each coating employed;
 - c. the OC content of each coating employed, in pounds per gallon, as applied;
 - d. the total uncontrolled OC emission rate for all the coatings, in tons, [summation of (b x c) for all coatings, divided by 2000];
 - e. the total controlled OC emission rate for all the coatings, in tons, calculated using the overall control efficiency from the most recent performance test that demonstrated that the emissions unit was in compliance, calculated by multiplying d by a factor of (1 - the overall control efficiency); and
 - f. the rolling, 12-month summation of the monthly OC emission rates, in tons.
 5. The permittee shall collect and record the following information for each month for the cleanup material usage for this emissions unit:
 - a. the company identification for each cleanup material employed;
 - b. the number of gallons of each cleanup material employed;
 - c. the OC content of each cleanup material employed, in pounds per gallon;
 - d. the total controlled OC emission rate for all the cleanup materials employed, in pounds, calculated using the overall control efficiency from the most recent performance test that demonstrated that the emissions unit was in compliance; and
 - e. the rolling, 12-month summation of the monthly OC emission rates for all the cleanup materials employed, in tons.

*The company may calculate OC emissions from cleanup operations in accordance with the following formula if waste cleanup materials are sent off-site for reclamation/disposal:

$$\text{OC emissions from cleanup emissions} = (\text{total gallons of cleanup material used} \times \text{solvent density of cleanup material}) - (\text{total gallons cleanup material sent off-site for disposal or reclamation} [\text{minus solids content of said material}] \times \text{solvent density} \times \{1 - \text{RTO overall efficiency, from the most recent performance test demonstrating the emissions unit was in compliance}\}.$$
 6. The permittee shall maintain daily records that document any time periods when the water wash system was not in service when the emissions unit was in operation.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall submit annual reports that specify the total OC emissions from coating usage and cleanup materials usage for the previous calendar year. These reports shall be submitted by January 31 of each year.
2. The permittee shall submit quarterly deviation (excursion) reports that identify all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator does not comply with the temperature limitation specified above. These deviation reports shall be submitted in accordance with paragraph A.1.c. of the General Terms and Conditions of this permit.
3. The permittee shall notify the Director (the appropriate District Office) in writing of any daily record showing that the water wash system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office) within 30 days after the event occurs.
4. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the monthly OC emission limitation of 151.20 pounds (from cleanup materials usage). All quarterly reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.
5. The permittee shall submit quarterly pressure differential deviation (excursion) reports that identify all periods of time during which the permanent total enclosure was not maintained at the required differential pressure specified above.

6. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month OC emission limitations of 10.10 tons (from coating usage) and 0.91 ton (from cleanup material usage). All quarterly reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

1. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - a. The emissions testing shall be conducted within 6 months prior to permit expiration.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for OC, and shall include determinations of capture efficiency, and overall control efficiency for the RTO.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate for OC: Methods 1 through 4 and 18, 25, or 25A, as appropriate, of 40 CFR, Part 60, Appendix A. The test method(s) which must be employed to demonstrate compliance with the capture efficiency and control efficiency limitations for organic compounds are specified below. Alternative U.S. EPA-approved test methods may be used with prior approval from the appropriate Ohio EPA District Office or local air agency.
 - d. The test(s) shall be conducted while the emissions units is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.
 - e. the overall control efficiency shall be determined using Methods 204 through 204F, as specified in 40 CFR part 51, Appendix M, or the permittee may request to use an alternative method or procedure for the determination of capture efficiency in accordance with the USEPA's "Guidelines for Determining Capture Efficiency," dated January 9, 1995. (The Ohio EPA will consider the request, including an evaluation of the applicability, necessity, and validity of the alternative, and may approve the use of the alternative if such approval does not contravene any other applicable requirement.) The control efficiency (i.e., the percent reduction in mass emissions between the inlet and outlet of the control system) shall be determined in accordance with the test methods and procedures specified in the approved alternative test protocol. The test methods and procedures selected shall be based on a consideration of the diversity of the organic species present and their total concentration, and on a consideration of the potential presence of interfering gases.
2. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

3. Compliance with the emission limitations in section A.I of the terms and conditions of this permit shall be determined in accordance with the following methods:
 - a. Emission Limitations:
2.30 lbs OC/hour, and 10.10 tons OC/rolling, 12-month summation, from coating materials usage

Applicable Compliance Method:
The permittee shall demonstrate compliance with the hourly OC emission limitation based on the results of emission testing conducted in accordance with Methods 1 through 4 and 18, 25, or 25A, as appropriate, of 40 CFR, Part 60, Appendix A.

Compliance with the annual OC emission limitation shall be determined based upon the record keeping requirements specified in section A.III.3. of this permit.
 - b. Emission Limitations:
151.20 lbs OC/month, and 0.91 ton OC/rolling, 12-month summation, from cleanup materials usage

Applicable Compliance Method:
Compliance with the monthly and annual allowable OC emission limitations shall be based on the record keeping requirements specified in section A.III.4 of this permit.

- c. Emission Limitations:
7.60 PE/hr and 33.30 tons PE/yr

Applicable Compliance Method:
To determine the actual worst case PE rate (E), the following equation shall be used for the paint spraying operations:

E = PE rate (lbs/hr)

E = maximum coating solids usage rate, in pounds per hour (1-TE) (1-CE)

where:

TE = transfer efficiency (30%), which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used.

CE = control efficiency (95%) of the downdraft paint booth

If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation in accordance with 40 CFR, Part 60, Appendix A, Methods 1 through 5.

The annual emission limitation was developed by multiplying the hourly limitation by 8760, and dividing by 2000. Therefore, provided compliance is shown with the hourly limitation, compliance shall then also be shown with the annual limitation.
- d. Emission Limitation:
Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with the visible emissions limitation pursuant to OAC rule 3745-17-03(B)(1).

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 038800002 Issuance type: Title V Preliminary Proposed Permit

[Go to the top of this document](#)

Facility ID: 038800002 Emissions Unit ID: R009 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

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

- 1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
downdraft main plastics paint booth, with cure oven and regenerative thermal oxidizer	none	none

2. **Additional Terms and Conditions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. The permit to install for this emissions unit was evaluated based on the actual materials (coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: isobutyl alcohol
TLV: 151.57 mg/m3
Emissions Rate: 2.30 lbs/hr
Modeled Ground Level Concentration: 40.40 ug/m3
Maximum Acceptable Ground Level Concentration: 3609 ug/m3

2. Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

a. changes in the composition of the materials used (coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;

b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and

c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

3. The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"
 - a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
 - b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
 - c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

1. None