GENERAL PERMIT 3.13 TEMPLATE

MISC. METAL PARTS AND PRODUCTS COATING LINE EXEMPT FROM OAC RULE 3745-21-09(U)(1) AND UNCONTROLLED VOC EMISSIONS >10 TPY

B. Facility-Wide Terms and Conditions

Note: The following are the terms and conditions for a General PTI to be issued to a **Title V** facility

1. All the following facility-wide terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:

   a) None.

2. The Ohio EPA has determined that this facility may be subject to the requirements of a federal rule that the Ohio EPA does not have the delegated authority to implement. Specifically:

   a) On January 9, 2008, U.S. EPA promulgated the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources, 40 CFR Part 63, Subpart HHHHHH. Spray applications using coatings containing compounds of chromium (Cr), lead (Pb), manganese (Mn), nickel (Ni), or cadmium (Cd) and paint stripping operations using methylene chloride must be operated in compliance with this federal rule; and/or

   b) On July 23, 2008, U.S.EPA promulgated the NESHAP for Nine Metal Fabrication and Finishing Source Categories at Area Sources, 40 CFR Part 63, Subpart XXXXXX. Metal fabrication of finishing metals containing compounds of chromium (Cr), lead (Pb), manganese (Mn), nickel (Ni), or cadmium (Cd) must be operated in compliance with this federal rule.

   Although Ohio EPA has determined that one or both of these rules (also known as a GACT) may apply, at this time Ohio EPA does not have the authority to enforce this standard. Instead, U.S. EPA has the authority to enforce this standard. Please be advised that all requirements associated with these rules are in effect and are enforceable by U.S. EPA. For more information on the area source rules, please refer to the follow U.S. EPA website: http://www.epa.gov/ttn/atw/area/arearules.html.

C. Emissions Unit Terms and Conditions

1. K00X, Miscellaneous Metal Parts and Products Coating Line

Operations, Property and/or Equipment Description:

Misc. metal parts and products coating line exempt from OAC rule 3745-21-09(U)(1) and uncontrolled or restricted VOC emissions >10 TPY (GP 3.13)

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

(1) b)(1)c., b)(2)b., d)(9), d)(10) and e)(4)

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	ORC 3704.03(T) and OAC rule 3745-31-05(A)(3)	Volatile organic compound (VOC) emissions from coating and cleaning material use shall not exceed 1.67 tons per month averaged over a 12-month rolling period.
b.	OAC rule 3745-31-05(A)(3), as effective 6/30/08	The requirements of this rule include compliance with the requirements of OAC rule 3745-17-11(C). See b)(2)a. below.
c.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 6/30/08	The Best Available Technology (BAT) requirements under 3745-31-05(A)(3) do not apply to particulate emissions since the calculated annual emission rate is less than 10 tons/year taking into account the federally enforceable work practice requirements in OAC rule 3745-17-11(C). See b)(2)b. below.
d.	OAC rule 3745-17-11(C)	See b)(2)c. and c)(2)-(3) below.
e.	OAC rule 3745-21-09(U)(2)	See b)(2)d. and c)(1) below.

(2) Additional Terms and Conditions

a. This Best Available Technology (BAT) emission limit applies until U.S. EPA approves Ohio Administrative Code (OAC) paragraph 3745-31-05(A)(3)(a) (the less than 10 tons per year BAT exemption) into the Ohio State Implementation Plan (SIP).

b. These requirements apply once U.S. EPA approves OAC paragraph 3745-31-05(A)(3)(a)(ii) (the less than 10 tons per year BAT exemption) as part of the Ohio SIP.

c. This emissions unit is exempt from the particulate control requirements in OAC rule 3745-17-11(C) and c)(2)-(3) and d)(4)-(8) of this permit if the miscellaneous metal coating line meets any one of the following criteria:

i. surface coating processes that apply only dip coatings, roll coatings, flow coatings, or brush coatings; or

ii. surface coating processes (e.g., for sealers, adhesives, and deadeners) that employ airless spray and bead-type (extrusion) application methods.

d. This emissions unit is exempt from the VOC content limitations for coatings in OAC rule 3745-21-09(U)(1) because it is eligible for one or more of the exemptions listed in OAC rule 3745-21-09(U)(2).

c) Operational Restrictions

(1) To remain eligible for exemption from the coating VOC content limitations in OAC rule 3745-21-09(U)(1), the permittee shall not use coatings in excess of the following daily applications rates in this emissions unit and shall comply with the recordkeeping requirements in d)(1):

a. If this emissions unit is operated in Ashtabula, Butler, Clermont, Cuyahoga, Geauga, Hamilton, Lake, Lorain, Medina, Portage, Summit, and Warren counties, 3 gallons per day;

b. If this emissions unit is operated in Clark, Greene, Miami, and Montgomery counties, 8 gallons per day; or

c. If this emissions unit is located in any other county, 10 gallons per day.

(2) The permittee shall install and operate a dry filtration system for the control of particulate emissions whenever this emissions unit is in operation and shall maintain the dry particulate filter in accordance with the manufacturer's recommendations, instructions, and/or operating manual(s), with any modifications deemed necessary by the permittee.

(3) In the event the particulate filter system is not operating in accordance with the manufacturer's recommendations, instructions, or operating manual, with any modifications deemed necessary by the permittee, the control device shall be expeditiously repaired or otherwise returned to these documented operating conditions.

d) Monitoring and/or Recordkeeping Requirements

(1) To remain eligible for the daily application rate exemptions described in c)(1), the permittee shall collect and record the following information each day for the miscellaneous metal coating line and maintain the information at the facility for a period of three years:

a. the name and identification number of each coating applied;

b. the volume, in gallons, of each coating applied; and

c. the total volume, in gallons, of all of the coatings applied in the coating line.

(2) The permittee shall collect and record the following information in either d)(2)a. or b. each month for the miscellaneous metal coating line:

a. <u>Coating As Applied Option:</u>

i. the name and identification number of each coating applied and each cleaning material employed;

ii. the VOC content, in pounds per gallon, of each coating, as applied (including any additives or thinners, if applicable) and each cleaning material;

iii. the volume, in gallons, of each coating employed;

iv. the volume, in gallons, of each cleaning material employed;

v. the VOC emissions from coating (VOC_{CO}), in pounds of VOC per month, calculated as follows:

$$VOC_{CO} \text{ (pounds/month)} = \sum_{i=1}^{n} (G \times C_{CO})$$

Where:

G = volume of each coating employed, in gallons, as recorded in d)(2)a.iii. above;

C_{CO} = VOC content of each coating, as applied, in pounds per gallon, as recorded in d)(2)a.ii. above; and

n = total number of coatings employed during the month;

vi. the VOC emissions from cleaning materials employed (VOC_{CL}), in pounds of VOC per month, calculated as follows:

$$VOC_{CL} \text{ (pounds/month)} = \sum_{i=1}^{n} (G \times C_{CL})$$

Where:

G = volume of each cleaning material employed, in gallons, as recorded in d)(2)a.iv. above;

C_{CL} = VOC content of each cleaning material employed, in pounds per gallon, as recorded in d)(2)a.ii. above; and

n = total number of cleaning materials employed during the month; and

vii. the total VOC emissions from all coatings and cleaning materials employed, in pounds of VOC per month, calculated as follows:

Total VOC (pounds/month) = VOC_{CO} (as recorded in d)(2)a.v.) + VOC_{CL} (as recorded in d)(2)a.vi.).

viii. the average monthly VOC emissions over a 12-month period, i.e., the total VOC emissions for the present month plus the previous 11 months, in tons, divided by 12 months.

b. <u>Inventory Method:</u>

i. the name and identification number of each coating applied and each cleaning material employed;

ii. the VOC content, in pounds per gallon, of each coating component and each cleaning material as packaged.

iii. the volume, in gallons, of each coating component employed;

iv. the volume, in gallons, of each cleaning material employed;

v. the VOC emissions from coating (VOC_{CO}), in pounds of VOC per month, calculated as follows:

$$VOC_{CO} \text{ (pounds/month)} = \sum_{i=1}^{n} (G \times C_{CO})$$

Where:

G = volume of each coating component applied, in gallons, as recorded in d)(2)b.iii. above;

C_{CO} = VOC content of each coating component, in pounds per gallon, as recorded in d)(2)b.ii. above; and

n = total number of coating components employed during the month;

vi. the VOC emissions from cleaning materials employed (VOC_{CL}), in pounds of VOC per month, calculated as follows:

$$VOC_{CL} \text{ (pounds/month)} = \sum_{i=1}^{n} (G \times C_{CL})$$

Where:

G = volume of each cleaning material employed, in gallons, as recorded in d)(2)b.iv. above;

C_{CL} = VOC content of each cleaning material employed, in pounds per gallon, as recorded in d)(2)b.ii. above; and

n = total number of cleaning materials employed during the month; and

vii. the total VOC emissions from all coatings and cleaning materials employed, in pounds of VOC per month, calculated as follows:

Total VOC (pounds/month) = VOC_{CO} (as recorded in d)(2)b.v.) + VOC_{CL} (as recorded in d)(2)b.vi.).

viii. the average monthly VOC emissions over a 12-month period, i.e., the total VOC emissions for the present month plus the previous 11 months, in tons, divided by 12 months.

(3) If coatings and cleaning materials are collected for off-site disposal and/or recovery, the following records shall be maintained if a credit is to be applied to the monthly VOC emissions recorded in d)(2)a.vii. or d)(2)b.vii. above:

a. the amount of coating and cleaning material recovered during the month* for off-site disposal and/or recovery, in gallons (or pounds, if records of recovered coating and cleaning material is maintained by weight);

b. the VOC content of the recovered coating and cleaning material shall be based on the lowest VOC content of any cleanup material collected, in pounds per gallon (or percent by weight if records of recovered coating and cleaning material is maintained by weight); or it may be based upon a laboratory analyses provided by the facility to which the waste material is shipped;

c. the date the recovered coating and cleaning material was shipped, the amount shipped (minus the container), and the name and address of the receiving, disposal, and/or recovery facility; and

d. the total VOC, in pounds per month, in coating and cleaning materials collected for off-site disposal and/or recovery (i.e. summation of d)(3)a. times d)(3)b.).

* A daily log may be required for recovered coating and waste cleaning material, where a record of the monthly total volume or weight of the collected material cannot be accurately maintained. This amount shall be adjusted if the volume or weight shipped is less than the sum of the monthly recovered coating and cleaning material added to the container.

(4) The permittee shall maintain documentation of the manufacturer's recommendations, instructions, or operating manuals for the dry particulate filter, along with documentation of any modifications deemed necessary by the permittee. These documents shall be maintained at the facility and shall be made available to the appropriate Ohio EPA district office or local air agency upon request.

(5) The permittee shall conduct periodic inspections of the dry particulate filter to determine whether it is operating in accordance with the manufacturer’s recommendations, instructions, or operating manuals with any modifications deemed necessary by the permittee or operator. These inspections shall be performed at a frequency that shall be based upon the recommendation of the manufacturer and the permittee shall maintain a copy of the manufacturer’s recommended inspection frequency and it shall be made available to the Ohio EPA upon request.

(6) In addition to the recommended periodic inspections, not less than once each calendar year the permittee shall conduct a comprehensive inspection of the dry particulate filter while the emissions unit is shut down and perform any needed maintenance and repair to ensure that it is operated in accordance with the manufacturer's recommendations.

(7) The permittee shall document each inspection (periodic and annual) of the dry particulate filter system and shall maintain the following information:

a. the date of the inspection;
b. a description of each/any problem identified and the date it was corrected;
c. a description of any maintenance and repairs performed; and
d. the name of person who performed the inspection.

These records shall be maintained at the facility for not less than five years from the date the inspection and any necessary maintenance or repairs were completed and shall be made available to the appropriate Ohio EPA district office or local air agency upon request.

(8) The permittee shall maintain records that document any time periods when the dry particulate filter was not in service when the emissions unit(s) was/were in operation, as well as, a record of all operations during which the dry particulate filter was not operated according to the manufacturer's recommendations with any documented modifications made by the permittee. These records shall be maintained for a period of not less than five years and shall be made available to the Ohio EPA upon request.

(9) If the maximum annual emissions of any toxic air contaminant, as defined in OAC rule 3745-114-01, exceed one ton per year, the following requirements apply:

a. The permittee has confirmed that potential emissions of each toxic air contaminant from this emissions unit are less than the applicable maximum hourly emission rate listed in Appendix A of the Qualifying Criteria document for GP 3.13. The maximum hourly emission rate for each compound was established at less than eighty per cent of its maximum acceptable ground level concentration (MAGLC) as determined through toxic air contaminant modeling.

b. New coating or cleaning materials shall not be employed in this emissions unit without evaluating each toxic air contaminant in accordance with Appendix A of the Qualifying Criteria document for GP 3.13.

c. Other important changes that can affect the parameters/values used in determining compliance with the maximum hourly emission rate include, but are not limited to, the following:

i. changes in the composition of the materials used or the use of new materials, that would result in the emission of a new toxic air contaminant with a lower Threshold Limit Value (TLV) than the lowest TLV previously modeled;

ii. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any toxic air contaminant listed in OAC rule 3745-114-01, that was modeled from the initial (or last) application; and

iii. physical changes to the emissions unit(s) or its/their exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Toxic Air Contaminant Statute" will be satisfied for the above changes by demonstrating that potential emissions of

each toxic air contaminant does not exceed its maximum hourly emission rate in Appendix A of the Qualifying Criteria document for GP 3.13, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to a non-restrictive change to a parameter or process operation, where compliance with the “Toxic Air Contaminant Statute”, ORC 3704.03(F), has been documented.

d. Prior to making a "modification" as defined by OAC rule 3745-31-01, the permittee must evaluate any changes in the composition of the materials used or use of new materials that would cause the emissions of any toxic air contaminant to increase. The permittee must apply for an individual permit-to-install if new or increased emissions of any toxic air contaminant no longer comply with the applicable maximum hourly emissions rates in Appendix A of the Qualifying Criteria document for GP 3.13.

e. The Director may consider any significant departure from the operations of the emissions unit that the permittee committed to in the Qualifying Criteria document to be a modification that results in greater emissions than the emission rate modeled, and he/she may require the permittee to submit a permit application for the increased emissions.

f. The permittee shall maintain a record of any change made to a parameter or value used to evaluate emissions of toxic air contaminants to complete the Qualifying Criteria document for GP 3.13 to demonstrate compliance with the “Toxic Air Contaminant Statute”, ORC 3704.03(F). The record shall include the date and reason(s) for the change and if the change would increase the maximum emissions rate of any toxic air contaminant or result in the emissions of a new toxic air contaminant.

(10) If the maximum annual emissions for any toxic air contaminant, as defined in OAC rule 3745-114-01, do not exceed one ton per year, modeling to demonstrate compliance with the “Toxic Air Contaminant Statute”, ORC 3704.03(F)(4)(b), is not necessary. OAC Chapter 3745-31 requires a permittee to apply for and obtain a new or modified permit-to-install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials or use of new materials that would cause the emissions of any toxic air contaminant to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit-to-install.

e) Reporting Requirements

(1) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

(2) The permittee shall submit quarterly deviation (excursion) reports that identify any deviations from the emission limitations, operational restrictions and/or control device operating parameter limitations. The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

(3) The permittee shall notify the appropriate Ohio EPA district office or local air agency in writing of any daily record showing that the coating line employs more than the

applicable maximum daily coating usage limit. The notification shall include a copy of such record and shall be sent to the Ohio EPA district office or local air agency within 45 days after the exceedance occurs.

(4) If the maximum annual emissions of any toxic air contaminant, as defined in OAC rule 3745-114-01, exceed one ton per year, the permittee shall include any change made to a parameter or value used to evaluate emissions of toxic air contaminants to complete the Qualifying Criteria document for GP 3.13 to demonstrate compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), in the quarterly report required in e)(2). If no changes to the emissions, emissions unit(s), or the exhaust stack have been made, then the report shall include a statement to this effect.

f) Testing Requirements

(1) Compliance with the emissions limitations and/or control requirements specified in b)(1) of these terms and conditions shall be determined in accordance with the following methods:

a. Emissions Limitation:
VOC emissions from coating and cleaning material use shall not exceed 1.67 tons per month averaged over a 12-month rolling period.

Applicable Compliance Method:
Compliance with the VOC emissions limitation shall be demonstrated by the actual average VOC emissions for a 12-month period as documented by the record keeping requirements in d)(2).

b. Emissions Limitations:
The following daily coating application rates shall not be exceeded in this emissions unit:

i. If this emissions unit is operated in Ashtabula, Butler, Clermont, Cuyahoga, Geauga, Hamilton, Lake, Lorain, Medina, Portage, Summit, and Warren counties, 3 gallons per day;

ii. If this emissions unit is operated in Clark, Greene, Miami, and Montgomery counties, 8 gallons per day; or

iii. If this emissions unit is located in any other county, 10 gallons per day.

Applicable Compliance Method:
Compliance with the coating application rate limitations shall be demonstrated by the recordkeeping in d)(1).

(2) Formulation data or USEPA Method 24 shall be used to determine the VOC contents of all coatings and cleaning materials.

g) Miscellaneous Requirements

(1) None.