

Facility ID: 0228000127 Issuance type: Final State Permit To Operate

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 II" and before "A. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

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Facility ID: 0228000127 Emissions Unit ID: R007 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. 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>
Paint spray booth #44A	OAC Rule 3745-17-07	Twenty percent (20%) opacity as a six-minute average, except as provided by rule.
	OAC rule 3745-17-11	Particulate emissions shall not exceed 0.551 pound per hour.
	OAC rule 3745-21-07 (G)(2)	The limit based on this rule is less stringent than the limit based on OAC rule 3745-31-05 (A)(3).
	OAC rule 3745-31-05 (A)(3) PTI # 02-12102	Organic compound emissions shall not exceed 8 pounds per hour, 40 pounds per day and 7.3 tons per year.
		Particulate emissions shall not exceed 2.41 tons per year.
		Total combined hazardous air pollutant (HAP) emissions shall not exceed 4,150 pounds per month facility-wide. Each single HAP emissions shall not exceed 1,650 pounds per month facility-wide.
	40 CFR Part 60, subpart TTT	See section A.2.a of these terms and conditions.
	OAC rule 3745-35-07 (B)	Equivalent to OAC rule 3745-31-05 (A)(3).

2. **Additional Terms and Conditions**
 - (a) Pursuant to 40 CFR 60.720, Subpart TTT of the New Source Performance Standards, the permittee shall not emit more than 1.5 kilograms of VOC per liter of coating solids applied when applying prime coating or color coating. The permittee shall not emit more than 2.3 kilograms per liter of coating solids applied, when texture coating or for touch-up.

B. Operational Restrictions

1. None

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following facility-wide information each month to ensure compliance with the HAP emissions:

- a. The name and identification number of each coating, as applied;
 - b. The individual Hazardous Air Pollutant (HAP) content for each HAP of each coating in pounds of individual HAP per gallon of coating, as applied;
 - c. The total combined Hazardous Air Pollutants (HAPs) content for each HAP of each coating in pounds of combined HAPs per gallon of coating, as applied (sum all the individual HAP contents from b.);
 - d. The number of gallons of each coating employed;
 - e. The name and identification of each cleanup material employed;
 - f. The individual HAP content for each HAP of each cleanup material in pounds of individual HAP per gallon of cleanup material, as applied;
 - g. The total combined HAP content of each cleanup material in pounds of combined HAPs per gallon of cleanup material, as applied (sum all the individual HAP contents from f.);
 - h. The number of gallons of each cleanup material employed;
 - i. The total individual HAP emissions from each HAP from all coatings and cleanup materials employed, in pounds or tons per month and pounds or tons per rolling 12-month period (for each HAP the sum of b. times d. for each coating, and the sum of f. times h. for each cleanup material); and,
 - j. The total combined HAPs emissions from all coatings and cleanup materials employed, in pounds or tons per month and pound or tons per rolling 12-month period (the sum of c. times d. for each coating plus the sum of g. times h. for each cleanup material).
 2. The permittee shall collect and record the following information each day for the purpose of determining OC emissions:
 - a. the name and identification of each coating and cleanup material employed;
 - b. the OC content of each coating and cleanup material, in pounds per gallon;
 - c. the number of gallons of each cleanup material employed;
 - d. the number of gallons (excluding water and exempt solvents) of each coating employed;
 - e. the daily OC emissions from all coatings and cleanup materials employed, in pounds;
 - f. the number of hours each day that the emissions unit operated; and
 - g. the average hourly OC emissions from all coatings and cleanup materials employed, i.e., (e)/(f), in pounds per hour average.
 3. The permittee shall collect and record the following information each month for this emissions unit:
 - a. The mass of VOC's used ($M_o + M_d$) = the sum, from $i = 1$ to $i = n$ of $(L_c \times D_c \times W_o)_i$, plus the sum, $j = 1$ to $j = m$, of $(L_d \times D_d)_j$ where,
 - D_c = the density of each coating as received (kilograms per liter);
 - D_d = the density of each diluent VOC (kilograms per liter);
 - L_c = the volume of each coating consumed, as received (liters);
 - L_d = the volume of each diluent coating added to coatings (liters);
 - M_d = the mass of diluent VOC's consumed (kilograms);
 - M_o = the mass of VOC's in coatings consumed, as received (kilograms);
 - W_o = the proportion of VOC's in each coating, as received (fraction by weight);
 - i = subscript denoting an individual coating;
 - n = the total number of different coating;
 - j = subscript denoting an individual diluent VOC's; and
 - m = the total number of different diluent VOC's.
 - b. The total volume of coating solids consumed (L_s) = the sum, from $i = 1$ to $i = n$, of $(L_c \times V_s)_i$, where,
 - L_s = the volume of coating solids consumed (liters);
 - V_s = the proportion of solids in each coating, as received (fraction by volume);
 - i = subscript denoting an individual coating; and
 - n = the total number of different coating.
 - c. The volume-weighted average mass of VOC's emitted per unit volume of coating solids applied (N) = $(M_o + M_d)/(L_s \times T_{ave})$ where,
 - N = the volume-weighted average mass of VOC emissions to the atmosphere per unit volume of coating solids applied (kilograms per liter); and
 - T_{ave} = the volume-weighted average transfer efficiency for a coating operation (fraction);
 4. USEPA Method 24 or formulation data shall be used to determine the VOC, OC and HAP contents.
- D. Reporting Requirements**
1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. An identification of each day during which the average OC emissions from this emissions unit exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day.
 - b. An identification of each day during which the daily OC emissions from this emissions unit exceeded 40 pounds per day, and the actual daily OC emissions for each such day.

c. An identification of each month during which the monthly emissions of any individual HAP from the facility exceeded 1,650 pounds per month, and the actual monthly emissions of each such individual HAP for each such month.

d. An identification of each month during which the monthly emissions of combined HAPs from the facility exceeded 4,150 pounds per month, and the actual monthly emissions of combined HAPs for each such month.

e. An identification of each month during which the volume-weighted average VOC content of prime or color coatings used in this emissions unit exceeded 1.5 kilograms of VOC per liter of coating solids applied, and the actual volume-weighted average VOC content of prime or color coatings for each such month.

f. An identification of each month during which the volume-weighted average VOC content of texture coatings or for touch-up used in this emissions unit exceeded 2.3 kilograms of VOC per liter of coating solids applied, and the actual volume-weighted average VOC content of texture coating or for touch-up for each such month.

E. Testing Requirements

1. Compliance with the emission limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:
20% opacity as a 6-minute average, except as provided by rule

Applicable Compliance Method:
Compliance shall be determined in accordance with the test methods and procedures specified in OAC rule 3745-17-03 (B) (1).

b. Emission Limitation:
0.551 pound particulate per hour

Applicable Compliance Method:
Compliance shall be determined based upon the actual worst case emission rate by using the following equation:

$$E = \text{MCSUR} \times (1 - \text{TE}) \times (1 - \text{CE})$$

where,

E = particulate emissions rate, in pound per hour;

MCSUR = maximum coating solids usage rate, in pounds per hour;

TE = transfer efficiency, 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 of the control equipment.

c. Emission Limitation:
8 pounds per hour and 40 pounds per day of OC

Applicable Compliance Method:
Compliance shall be determined based upon record keeping requirements specified in section C.3 of these terms and conditions.

d. Emission Limitation:
7.3 tons per year of OC

Applicable Compliance Method:
The tons per year limitations were developed by multiplying the pounds per day limitation by the maximum operating schedule of 365 days per year, and dividing by 2,000 pounds per ton. Therefore, provided compliance is shown with the daily limitation, compliance will also be shown with the annual limitations.

e. Emission Limitation:
2.41 tons per year of particulate

Applicable Compliance Method:
The tons per year limitations were developed by multiplying the pounds per hour limitation by the maximum operating schedule of 8760 hours per year, and dividing by 2,000 pounds per ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitations.

f. Emission Limitation:
1,650 pounds of any individual HAP per month, and
4,150 pounds of all HAPs per month

Applicable Compliance Method:
Compliance shall be determined in accordance with record keeping requirements specified in section C.1 of these terms and conditions.

2. Compliance with the emission limitations in section A.2 of these terms and conditions shall be determined in accordance with the following methods:

Emission Limitation:
1.5 kilograms of VOC per liter of coating solids applied when applying prime coating or color coating and 2.3 kilograms per liter of coating solids applied, when texture coating or for touch-up.

Applicable Compliance Method:
Compliance shall be determined based upon record keeping requirements specified in section C.4 of these terms and conditions.

F. Miscellaneous Requirements

1. The permittee shall conduct an initial compliance test, as specified in 40 CFR 60, Subpart TTT, for any new ink or

coating employed in the facility. Records of same shall be maintained on the premises and made available to the any representative of the Director during normal business hours.

2. In accordance with the provisions of OAC rule 3745-35-07, the following special terms and conditions of this permit to operate are federally enforceable: A - F.

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Facility ID: 0228000127 Emissions Unit ID: R008 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

(a) None.

2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

(a) None.

A. 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>
Paint spray booth #44B	OAC Rule 3745-17-07	Twenty percent (20%) opacity as a six-minute average, except as provided by rule.
	OAC rule 3745-17-11	Particulate emissions shall not exceed 0.551 pound per hour.
	OAC rule 3745-21-07 (G)(2)	The limit based on this rule is less stringent than the limit based on OAC rule 3745-31-05 (A)(3).
	OAC rule 3745-31-05 (A)(3) PTI # 02-12102	Organic compound emissions shall not exceed 8 pounds per hour, 40 pounds per day and 7.3 tons per year.
		Particulate emissions shall not exceed 2.41 tons per year.
	40 CFR Part 60, subpart TTT	Total combined hazardous air pollutant (HAP) emissions shall not exceed 4,150 pounds per month facility-wide. Each single HAP emissions shall not exceed 1,650 pounds per month facility-wide.
	OAC rule 3745-35-07 (B)	See section A.2.a of these terms and conditions. Equivalent to OAC rule 3745-31-05 (A)(3).

2. Additional Terms and Conditions

- (a) Pursuant to 40 CFR 60.720, Subpart TTT of the New Source Performance Standards, the permittee shall not emit more than 1.5 kilograms of VOC per liter of coating solids applied when applying prime coating or color coating. The permittee shall not emit more than 2.3 kilograms per liter of coating solids applied, when texture coating or for touch-up.

B. Operational Restrictions

1. None

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following facility-wide information each month to ensure compliance with the HAP emissions:
 - a. The name and identification number of each coating, as applied;
 - b. The individual Hazardous Air Pollutant (HAP) content for each HAP of each coating in pounds of individual HAP per gallon of coating, as applied;
 - c. The total combined Hazardous Air Pollutants (HAPs) content for each HAP of each coating in pounds of combined HAPs per gallon of coating, as applied (sum all the individual HAP contents from b.);
 - d. The number of gallons of each coating employed;

- e. The name and identification of each cleanup material employed;
 - f. The individual HAP content for each HAP of each cleanup material in pounds of individual HAP per gallon of cleanup material, as applied;
 - g. The total combined HAP content of each cleanup material in pounds of combined HAPs per gallon of cleanup material, as applied (sum all the individual HAP contents from f.);
 - h. The number of gallons of each cleanup material employed;
 - i. The total individual HAP emissions from each HAP from all coatings and cleanup materials employed, in pounds or tons per month and pounds or tons per rolling 12-month period (for each HAP the sum of b. times d. for each coating, and the sum of f. times h. for each cleanup material); and,
 - j. The total combined HAPs emissions from all coatings and cleanup materials employed, in pounds or tons per month and pound or tons per rolling 12-month period (the sum of c. times d. for each coating plus the sum of g. times h. for each cleanup material).
2. The permittee shall collect and record the following information each day for the purpose of determining OC emissions:
- a. the name and identification of each coating and cleanup material employed;
 - b. the OC content of each coating and cleanup material, in pounds per gallon;
 - c. the number of gallons of each cleanup material employed;
 - d. the number of gallons (excluding water and exempt solvents) of each coating employed;
 - e. the daily OC emissions from all coatings and cleanup materials employed, in pounds;
 - f. the number of hours each day that the emissions unit operated; and
 - g. the average hourly OC emissions from all coatings and cleanup materials employed, i.e., (e)/(f), in pounds per hour average.
3. The permittee shall collect and record the following information each month for this emissions unit:
- a. The mass of VOC's used ($M_o + M_d$) = the sum, from $i = 1$ to $i = n$ of $(L_c \times D_c \times W_o)_i$, plus the sum, $j = 1$ to $j = m$, of $(L_d \times D_d)_j$
 where,
 D_c = the density of each coating as received (kilograms per liter);
 D_d = the density of each diluent VOC (kilograms per liter);
 L_c = the volume of each coating consumed, as received (liters);
 L_d = the volume of each diluent coating added to coatings (liters);
 M_d = the mass of diluent VOC's consumed (kilograms);
 M_o = the mass of VOC's in coatings consumed, as received (kilograms);
 W_o = the proportion of VOC's in each coating, as received (fraction by weight);
 i = subscript denoting an individual coating;
 n = the total number of different coating;
 j = subscript denoting an individual diluent VOC's; and
 m = the total number of different diluent VOC's.
 - b. The total volume of coating solids consumed (L_s) = the sum, from $i = 1$ to $i = n$, of $(L_c \times V_s)_i$,
 where,
 L_s = the volume of coating solids consumed (liters);
 V_s = the proportion of solids in each coating, as received (fraction by volume);
 i = subscript denoting an individual coating; and
 n = the total number of different coating.
 - c. The volume-weighted average mass of VOC's emitted per unit volume of coating solids applied (N) = $(M_o + M_d)/(L_s \times T_{ave})$
 where,
 N = the volume-weighted average mass of VOC emissions to the atmosphere per unit volume of coating solids applied (kilograms per liter); and
 T_{ave} = the volume-weighted average transfer efficiency for a coating operation (fraction);
4. USEPA Method 24 or formulation data shall be used to determine the VOC, OC and HAP contents.
- D. Reporting Requirements**
1. The permittee shall submit deviation (excursion) reports which include the following information:
- a. An identification of each day during which the average OC emissions from this emissions unit exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day.
 - b. An identification of each day during which the daily OC emissions from this emissions unit exceeded 40 pounds per day, and the actual daily OC emissions for each such day.
 - c. An identification of each month during which the monthly emissions of any individual HAP from the facility exceeded 1,650 pounds per month, and the actual monthly emissions of each such individual HAP for each such month.
 - d. An identification of each month during which the monthly emissions of combined HAPs from the facility exceeded 4,150 pounds per month, and the actual monthly emissions of combined HAPs for each such month.
 - e. An identification of each month during which the volume-weighted average VOC content of prime or color

coatings used in this emissions unit exceeded 1.5 kilograms of VOC per liter of coating solids applied, and the actual volume-weighted average VOC content of prime or color coatings for each such month.

f. An identification of each month during which the volume-weighted average VOC content of texture coatings or for touch-up used in this emissions unit exceeded 2.3 kilograms of VOC per liter of coating solids applied, and the actual volume-weighted average VOC content of texture coating or for touch-up for each such month.

E. Testing Requirements

1. Compliance with the emission limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:
20% opacity as a 6-minute average, except as provided by rule

Applicable Compliance Method:
Compliance shall be determined in accordance with the test methods and procedures specified in OAC rule 3745-17-03 (B) (1).

b. Emission Limitation:
0.551 pound particulate per hour

Applicable Compliance Method:
Compliance shall be determined based upon the actual worst case emission rate by using the following equation:

$$E = \text{MCSUR} \times (1 - \text{TE}) \times (1 - \text{CE})$$

where,

E = particulate emissions rate, in pound per hour;

MCSUR = maximum coating solids usage rate, in pounds per hour;

TE = transfer efficiency, 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 of the control equipment.

c. Emission Limitation:
8 pounds per hour and 40 pounds per day of OC

Applicable Compliance Method:
Compliance shall be determined based upon record keeping requirements specified in section C.3 of these terms and conditions.

d. Emission Limitation:
7.3 tons per year of OC

Applicable Compliance Method:
The tons per year limitations were developed by multiplying the pounds per day limitation by the maximum operating schedule of 365 days per year, and dividing by 2,000 pounds per ton. Therefore, provided compliance is shown with the daily limitation, compliance will also be shown with the annual limitations.

e. Emission Limitation:
2.41 tons per year of particulate

Applicable Compliance Method:
The tons per year limitations were developed by multiplying the pounds per hour limitation by the maximum operating schedule of 8760 hours per year, and dividing by 2,000 pounds per ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitations.

f. Emission Limitation:
1,650 pounds of any individual HAP per month, and
4,150 pounds of all HAPs per month

Applicable Compliance Method:
Compliance shall be determined in accordance with record keeping requirements specified in section C.1 of these terms and conditions.

2. Compliance with the emission limitations in section A.2 of these terms and conditions shall be determined in accordance with the following methods:

Emission Limitation:
1.5 kilograms of VOC per liter of coating solids applied when applying prime coating or color coating and 2.3 kilograms per liter of coating solids applied, when texture coating or for touch-up.

Applicable Compliance Method:
Compliance shall be determined based upon record keeping requirements specified in section C.4 of these terms and conditions.

F. Miscellaneous Requirements

1. The permittee shall conduct an initial compliance test, as specified in 40 CFR 60, Subpart TTT, for any new ink or coating employed in the facility. Records of same shall be maintained on the premises and made available to the any representative of the Director during normal business hours.

2. In accordance with the provisions of OAC rule 3745-35-07, the following special terms and conditions of this permit to operate are federally enforceable: A - F.

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

Facility ID: 0228000127 Emissions Unit ID: R009 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. 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>
Paint spray booth #45	OAC Rule 3745-17-07	Twenty percent (20%) opacity as a six-minute average, except as provided by rule.
	OAC rule 3745-17-11	Particulate emissions shall not exceed 0.551 pound per hour.
	OAC rule 3745-21-07 (G)(2)	The limit based on this rule is less stringent than the limit based on OAC rule 3745-31-05 (A)(3).
	OAC rule 3745-31-05 (A)(3) PTI # 02-12102	Organic compound emissions shall not exceed 8 pounds per hour, 40 pounds per day and 7.3 tons per year.
		Particulate emissions shall not exceed 2.41 tons per year.
	40 CFR Part 60, subpart TTT	Total combined hazardous air pollutant (HAP) emissions shall not exceed 4,150 pounds per month facility-wide. Each single HAP emissions shall not exceed 1,650 pounds per month facility-wide.
	OAC rule 3745-35-07 (B)	See section A.2.a of these terms and conditions. Equivalent to OAC rule 3745-31-05 (A)(3).

2. Additional Terms and Conditions

- (a) Pursuant to 40 CFR 60.720, Subpart TTT of the New Source Performance Standards, the permittee shall not emit more than 1.5 kilograms of VOC per liter of coating solids applied when applying prime coating or color coating. The permittee shall not emit more than 2.3 kilograms per liter of coating solids applied, when texture coating or for touch-up.

B. Operational Restrictions

1. None

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following facility-wide information each month to ensure compliance with the HAP emissions:
 - a. The name and identification number of each coating, as applied;
 - b. The individual Hazardous Air Pollutant (HAP) content for each HAP of each coating in pounds of individual HAP per gallon of coating, as applied;
 - c. The total combined Hazardous Air Pollutants (HAPs) content for each HAP of each coating in pounds of combined HAPs per gallon of coating, as applied (sum all the individual HAP contents from b.);
 - d. The number of gallons of each coating employed;
 - e. The name and identification of each cleanup material employed;
 - f. The individual HAP content for each HAP of each cleanup material in pounds of individual HAP per gallon of cleanup material, as applied;
 - g. The total combined HAP content of each cleanup material in pounds of combined HAPs per gallon of cleanup material, as applied (sum all the individual HAP contents from f.);

- h. The number of gallons of each cleanup material employed;
- i. The total individual HAP emissions from each HAP from all coatings and cleanup materials employed, in pounds or tons per month and pounds or tons per rolling 12-month period (for each HAP the sum of b. times d. for each coating, and the sum of f. times h. for each cleanup material); and,
 - j. The total combined HAPs emissions from all coatings and cleanup materials employed, in pounds or tons per month and pound or tons per rolling 12-month period (the sum of c. times d. for each coating plus the sum of g. times h. for each cleanup material).
2. The permittee shall collect and record the following information each day for the purpose of determining OC emissions:
- a. the name and identification of each coating and cleanup material employed;
 - b. the OC content of each coating and cleanup material, in pounds per gallon;
 - c. the number of gallons of each cleanup material employed;
 - d. the number of gallons (excluding water and exempt solvents) of each coating employed;
 - e. the daily OC emissions from all coatings and cleanup materials employed, in pounds;
 - f. the number of hours each day that the emissions unit operated; and
 - g. the average hourly OC emissions from all coatings and cleanup materials employed, i.e., (e)/(f), in pounds per hour average.
3. The permittee shall collect and record the following information each month for this emissions unit:
- a. The mass of VOC's used ($M_o + M_d$) = the sum, from $i = 1$ to $i = n$ of $(L_c \times D_c \times W_o)_i$, plus the sum, $j = 1$ to $j = m$, of $(L_d \times D_d)_j$
where,
 D_c = the density of each coating as received (kilograms per liter);
 D_d = the density of each diluent VOC (kilograms per liter);
 L_c = the volume of each coating consumed, as received (liters);
 L_d = the volume of each diluent coating added to coatings (liters);
 M_d = the mass of diluent VOC's consumed (kilograms);
 M_o = the mass of VOC's in coatings consumed, as received (kilograms);
 W_o = the proportion of VOC's in each coating, as received (fraction by weight);
 i = subscript denoting an individual coating;
 n = the total number of different coating;
 j = subscript denoting an individual diluent VOC's; and
 m = the total number of different diluent VOC's.
 - b. The total volume of coating solids consumed (L_s) = the sum, from $i = 1$ to $i = n$, of $(L_c \times V_s)_i$,
where,
 L_s = the volume of coating solids consumed (liters);
 V_s = the proportion of solids in each coating, as received (fraction by volume);
 i = subscript denoting an individual coating; and
 n = the total number of different coating.
 - c. The volume-weighted average mass of VOC's emitted per unit volume of coating solids applied (N) = $(M_o + M_d)/(L_s \times T_{ave})$
where,
 N = the volume-weighted average mass of VOC emissions to the atmosphere per unit volume of coating solids applied (kilograms per liter); and
 T_{ave} = the volume-weighted average transfer efficiency for a coating operation (fraction);
4. USEPA Method 24 or formulation data shall be used to determine the VOC, OC and HAP contents.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
- a. An identification of each day during which the average OC emissions from this emissions unit exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day.
 - b. An identification of each day during which the daily OC emissions from this emissions unit exceeded 40 pounds per day, and the actual daily OC emissions for each such day.
 - c. An identification of each month during which the monthly emissions of any individual HAP from the facility exceeded 1,650 pounds per month, and the actual monthly emissions of each such individual HAP for each such month.
 - d. An identification of each month during which the monthly emissions of combined HAPs from the facility exceeded 4,150 pounds per month, and the actual monthly emissions of combined HAPs for each such month.
 - e. An identification of each month during which the volume-weighted average VOC content of prime or color coatings used in this emissions unit exceeded 1.5 kilograms of VOC per liter of coating solids applied, and the actual volume-weighted average VOC content of prime or color coatings for each such month.
 - f. An identification of each month during which the volume-weighted average VOC content of texture coatings or for touch-up used in this emissions unit exceeded 2.3 kilograms of VOC per liter of coating solids applied, and the actual volume-weighted average VOC content of texture coating or for touch-up for each such month.

E. Testing Requirements

1. Compliance with the emission limitations in section A.1 of these terms and conditions shall be determined in

accordance with the following methods:

a. Emission Limitation:
20% opacity as a 6-minute average, except as provided by rule

Applicable Compliance Method:
Compliance shall be determined in accordance with the test methods and procedures specified in OAC rule 3745-17-03 (B) (1).

b. Emission Limitation:
0.551 pound particulate per hour

Applicable Compliance Method:
Compliance shall be determined based upon the actual worst case emission rate by using the following equation:

$$E = \text{MCSUR} \times (1 - \text{TE}) \times (1 - \text{CE})$$

where,

E = particulate emissions rate, in pound per hour;

MCSUR = maximum coating solids usage rate, in pounds per hour;

TE = transfer efficiency, 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 of the control equipment.

c. Emission Limitation:
8 pounds per hour and 40 pounds per day of OC

Applicable Compliance Method:
Compliance shall be determined based upon record keeping requirements specified in section C.3 of these terms and conditions.

d. Emission Limitation:
7.3 tons per year of OC

Applicable Compliance Method:
The tons per year limitations were developed by multiplying the pounds per day limitation by the maximum operating schedule of 365 days per year, and dividing by 2,000 pounds per ton. Therefore, provided compliance is shown with the daily limitation, compliance will also be shown with the annual limitations.

e. Emission Limitation:
2.41 tons per year of particulate

Applicable Compliance Method:
The tons per year limitations were developed by multiplying the pounds per hour limitation by the maximum operating schedule of 8760 hours per year, and dividing by 2,000 pounds per ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitations.

f. Emission Limitation:
1,650 pounds of any individual HAP per month, and
4,150 pounds of all HAPs per month

Applicable Compliance Method:
Compliance shall be determined in accordance with record keeping requirements specified in section C.1 of these terms and conditions.

2. Compliance with the emission limitations in section A.2 of these terms and conditions shall be determined in accordance with the following methods:

Emission Limitation:
1.5 kilograms of VOC per liter of coating solids applied when applying prime coating or color coating and 2.3 kilograms per liter of coating solids applied, when texture coating or for touch-up.

Applicable Compliance Method:
Compliance shall be determined based upon record keeping requirements specified in section C.4 of these terms and conditions.

F. Miscellaneous Requirements

1. The permittee shall conduct an initial compliance test, as specified in 40 CFR 60, Subpart TTT, for any new ink or coating employed in the facility. Records of same shall be maintained on the premises and made available to the any representative of the Director during normal business hours.
2. In accordance with the provisions of OAC rule 3745-35-07, the following special terms and conditions of this permit to operate are federally enforceable: A - F.

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

Facility ID: 0228000127 Emissions Unit ID: R010 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with

ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. 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>
Paint spray booth #46	OAC Rule 3745-17-07	Twenty percent (20%) opacity as a six-minute average, except as provided by rule.
	OAC rule 3745-17-11	Particulate emissions shall not exceed 0.551 pound per hour.
	OAC rule 3745-21-07 (G)(2)	The limit based on this rule is less stringent than the limit based on OAC rule 3745-31-05 (A)(3).
	OAC rule 3745-31-05 (A)(3) PTI # 02-12102	Organic compound emissions shall not exceed 8 pounds per hour, 40 pounds per day and 7.3 tons per year.
		Particulate emissions shall not exceed 2.41 tons per year.
	40 CFR Part 60, subpart TTT	Total combined hazardous air pollutant (HAP) emissions shall not exceed 4,150 pounds per month facility-wide. Each single HAP emissions shall not exceed 1,650 pounds per month facility-wide.
	OAC rule 3745-35-07 (B)	See section A.2.a of these terms and conditions. Equivalent to OAC rule 3745-31-05 (A)(3).

2. **Additional Terms and Conditions**
 - (a) Pursuant to 40 CFR 60.720, Subpart TTT of the New Source Performance Standards, the permittee shall not emit more than 1.5 kilograms of VOC per liter of coating solids applied when applying prime coating or color coating. The permittee shall not emit more than 2.3 kilograms per liter of coating solids applied, when texture coating or for touch-up.

B. Operational Restrictions

1. None

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following facility-wide information each month to ensure compliance with the HAP emissions:
 - a. The name and identification number of each coating, as applied;
 - b. The individual Hazardous Air Pollutant (HAP) content for each HAP of each coating in pounds of individual HAP per gallon of coating, as applied;
 - c. The total combined Hazardous Air Pollutants (HAPs) content for each HAP of each coating in pounds of combined HAPs per gallon of coating, as applied (sum all the individual HAP contents from b.);
 - d. The number of gallons of each coating employed;
 - e. The name and identification of each cleanup material employed;
 - f. The individual HAP content for each HAP of each cleanup material in pounds of individual HAP per gallon of cleanup material, as applied;
 - g. The total combined HAP content of each cleanup material in pounds of combined HAPs per gallon of cleanup material, as applied (sum all the individual HAP contents from f.);
 - h. The number of gallons of each cleanup material employed;
 - i. The total individual HAP emissions from each HAP from all coatings and cleanup materials employed, in pounds or tons per month and pounds or tons per rolling 12-month period (for each HAP the sum of b. times d. for each coating, and the sum of f. times h. for each cleanup material); and,
 - j. The total combined HAPs emissions from all coatings and cleanup materials employed, in pounds or tons per month and pound or tons per rolling 12-month period (the sum of c. times d. for each coating plus the sum of g. times h. for each cleanup material).

2. The permittee shall collect and record the following information each day for the purpose of determining OC emissions:
 - a. the name and identification of each coating and cleanup material employed;
 - b. the OC content of each coating and cleanup material, in pounds per gallon;
 - c. the number of gallons of each cleanup material employed;
 - d. the number of gallons (excluding water and exempt solvents) of each coating employed;
 - e. the daily OC emissions from all coatings and cleanup materials employed, in pounds;
 - f. the number of hours each day that the emissions unit operated; and
 - g. the average hourly OC emissions from all coatings and cleanup materials employed, i.e., (e)/(f), in pounds per hour average.
 3. The permittee shall collect and record the following information each month for this emissions unit:
 - a. The mass of VOC's used ($M_o + M_d$) = the sum, from $i = 1$ to $i = n$ of $(L_c \times D_c \times W_o)_i$, plus the sum, $j = 1$ to $j = m$, of $(L_d \times D_d)_j$ where,
 - Dc = the density of each coating as received (kilograms per liter);
 - Dd = the density of each diluent VOC (kilograms per liter);
 - Lc = the volume of each coating consumed, as received (liters);
 - Ld = the volume of each diluent coating added to coatings (liters);
 - Md = the mass of diluent VOC's consumed (kilograms);
 - Mo = the mass of VOC's in coatings consumed, as received (kilograms);
 - Wo = the proportion of VOC's in each coating, as received (fraction by weight);
 - i = subscript denoting an individual coating;
 - n = the total number of different coating;
 - j = subscript denoting an individual diluent VOC's; and
 - m = the total number of different diluent VOC's.
 - b. The total volume of coating solids consumed (L_s) = the sum, from $i = 1$ to $i = n$, of $(L_c \times V_s)_i$, where,
 - Ls = the volume of coating solids consumed (liters);
 - Vs = the proportion of solids in each coating, as received (fraction by volume);
 - i = subscript denoting an individual coating; and
 - n = the total number of different coating.
 - c. The volume-weighted average mass of VOC's emitted per unit volume of coating solids applied (N) = $(M_o + M_d)/(L_s \times T_{ave})$ where,
 - N = the volume-weighted average mass of VOC emissions to the atmosphere per unit volume of coating solids applied (kilograms per liter); and
 - Tave = the volume-weighted average transfer efficiency for a coating operation (fraction);
 4. USEPA Method 24 or formulation data shall be used to determine the VOC, OC and HAP contents.
- D. Reporting Requirements**
1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. An identification of each day during which the average OC emissions from this emissions unit exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day.
 - b. An identification of each day during which the daily OC emissions from this emissions unit exceeded 40 pounds per day, and the actual daily OC emissions for each such day.
 - c. An identification of each month during which the monthly emissions of any individual HAP from the facility exceeded 1,650 pounds per month, and the actual monthly emissions of each such individual HAP for each such month.
 - d. An identification of each month during which the monthly emissions of combined HAPs from the facility exceeded 4,150 pounds per month, and the actual monthly emissions of combined HAPs for each such month.
 - e. An identification of each month during which the volume-weighted average VOC content of prime or color coatings used in this emissions unit exceeded 1.5 kilograms of VOC per liter of coating solids applied, and the actual volume-weighted average VOC content of prime or color coatings for each such month.
 - f. An identification of each month during which the volume-weighted average VOC content of texture coatings or for touch-up used in this emissions unit exceeded 2.3 kilograms of VOC per liter of coating solids applied, and the actual volume-weighted average VOC content of texture coating or for touch-up for each such month.
- E. Testing Requirements**
1. Compliance with the emission limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
20% opacity as a 6-minute average, except as provided by rule
 - Applicable Compliance Method:
Compliance shall be determined in accordance with the test methods and procedures specified in OAC rule 3745-17-03 (B) (1).
 - b. Emission Limitation:

0.551 pound particulate per hour

Applicable Compliance Method:

Compliance shall be determined based upon the actual worst case emission rate by using the following equation:

$$E = \text{MCSUR} \times (1 - \text{TE}) \times (1 - \text{CE})$$

where,

E = particulate emissions rate, in pound per hour;

MCSUR = maximum coating solids usage rate, in pounds per hour;

TE = transfer efficiency, 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 of the control equipment.

c. Emission Limitation:

8 pounds per hour and 40 pounds per day of OC

Applicable Compliance Method:

Compliance shall be determined based upon record keeping requirements specified in section C.3 of these terms and conditions.

d. Emission Limitation:

7.3 tons per year of OC

Applicable Compliance Method:

The tons per year limitations were developed by multiplying the pounds per day limitation by the maximum operating schedule of 365 days per year, and dividing by 2,000 pounds per ton. Therefore, provided compliance is shown with the daily limitation, compliance will also be shown with the annual limitations.

e. Emission Limitation:

2.41 tons per year of particulate

Applicable Compliance Method:

The tons per year limitations were developed by multiplying the pounds per hour limitation by the maximum operating schedule of 8760 hours per year, and dividing by 2,000 pounds per ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitations.

f. Emission Limitation:

1,650 pounds of any individual HAP per month, and

4,150 pounds of all HAPs per month

Applicable Compliance Method:

Compliance shall be determined in accordance with record keeping requirements specified in section C.1 of these terms and conditions.

2. Compliance with the emission limitations in section A.2 of these terms and conditions shall be determined in accordance with the following methods:

Emission Limitation:

1.5 kilograms of VOC per liter of coating solids applied when applying prime coating or color coating and 2.3 kilograms per liter of coating solids applied, when texture coating or for touch-up.

Applicable Compliance Method:

Compliance shall be determined based upon record keeping requirements specified in section C.4 of these terms and conditions.

F. Miscellaneous Requirements

1. The permittee shall conduct an initial compliance test, as specified in 40 CFR 60, Subpart TTT, for any new ink or coating employed in the facility. Records of same shall be maintained on the premises and made available to the any representative of the Director during normal business hours.
2. In accordance with the provisions of OAC rule 3745-35-07, the following special terms and conditions of this permit to operate are federally enforceable: A - F.

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

Facility ID: 0228000127 Emissions Unit ID: R011 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. 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>
Paint spray booth #47	OAC Rule 3745-17-07	Twenty percent (20%) opacity as a six-minute average, except as provided by rule.
	OAC rule 3745-17-11	Particulate emissions shall not exceed 0.551 pound per hour.
	OAC rule 3745-21-07 (G)(2)	The limit based on this rule is less stringent than the limit based on OAC rule 3745-31-05 (A)(3).
	OAC rule 3745-31-05 (A)(3) PTI # 02-12102	Organic compound emissions shall not exceed 8 pounds per hour, 40 pounds per day and 7.3 tons per year.
		Particulate emissions shall not exceed 2.41 tons per year.
	40 CFR Part 60, subpart TTT OAC rule 3745-35-07 (B)	Total combined hazardous air pollutant (HAP) emissions shall not exceed 4,150 pounds per month facility-wide. Each single HAP emissions shall not exceed 1,650 pounds per month facility-wide. See section A.2.a of these terms and conditions. Equivalent to OAC rule 3745-31-05 (A)(3).

2. Additional Terms and Conditions

- (a) Pursuant to 40 CFR 60.720, Subpart TTT of the New Source Performance Standards, the permittee shall not emit more than 1.5 kilograms of VOC per liter of coating solids applied when applying prime coating or color coating. The permittee shall not emit more than 2.3 kilograms per liter of coating solids applied, when texture coating or for touch-up.

B. Operational Restrictions

1. None

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following facility-wide information each month to ensure compliance with the HAP emissions:
 - a. The name and identification number of each coating, as applied;
 - b. The individual Hazardous Air Pollutant (HAP) content for each HAP of each coating in pounds of individual HAP per gallon of coating, as applied;
 - c. The total combined Hazardous Air Pollutants (HAPs) content for each HAP of each coating in pounds of combined HAPs per gallon of coating, as applied (sum all the individual HAP contents from b.);
 - d. The number of gallons of each coating employed;
 - e. The name and identification of each cleanup material employed;
 - f. The individual HAP content for each HAP of each cleanup material in pounds of individual HAP per gallon of cleanup material, as applied;
 - g. The total combined HAP content of each cleanup material in pounds of combined HAPs per gallon of cleanup material, as applied (sum all the individual HAP contents from f.);
 - h. The number of gallons of each cleanup material employed;
 - i. The total individual HAP emissions from each HAP from all coatings and cleanup materials employed, in pounds or tons per month and pounds or tons per rolling 12-month period (for each HAP the sum of b. times d. for each coating, and the sum of f. times h. for each cleanup material); and,
 - j. The total combined HAPs emissions from all coatings and cleanup materials employed, in pounds or tons per month and pound or tons per rolling 12-month period (the sum of c. times d. for each coating plus the sum of g. times h. for each cleanup material).
2. The permittee shall collect and record the following information each day for the purpose of determining OC emissions:
 - a. the name and identification of each coating and cleanup material employed;
 - b. the OC content of each coating and cleanup material, in pounds per gallon;
 - c. the number of gallons of each cleanup material employed;
 - d. the number of gallons (excluding water and exempt solvents) of each coating employed;

- e. the daily OC emissions from all coatings and cleanup materials employed, in pounds;
- f. the number of hours each day that the emissions unit operated; and
- g. the average hourly OC emissions from all coatings and cleanup materials employed, i.e., (e)/(f), in pounds per hour average.
3. The permittee shall collect and record the following information each month for this emissions unit:
- a. The mass of VOC's used ($M_o + M_d$) = the sum, from $i = 1$ to $i = n$ of $(L_c \times D_c \times W_o)_i$, plus the sum, $j = 1$ to $j = m$, of $(L_d \times D_d)_j$
 where,
 D_c = the density of each coating as received (kilograms per liter);
 D_d = the density of each diluent VOC (kilograms per liter);
 L_c = the volume of each coating consumed, as received (liters);
 L_d = the volume of each diluent coating added to coatings (liters);
 M_d = the mass of diluent VOC's consumed (kilograms);
 M_o = the mass of VOC's in coatings consumed, as received (kilograms);
 W_o = the proportion of VOC's in each coating, as received (fraction by weight);
 i = subscript denoting an individual coating;
 n = the total number of different coating;
 j = subscript denoting an individual diluent VOC's; and
 m = the total number of different diluent VOC's.
- b. The total volume of coating solids consumed (L_s) = the sum, from $i = 1$ to $i = n$, of $(L_c \times V_s)_i$,
 where,
 L_s = the volume of coating solids consumed (liters);
 V_s = the proportion of solids in each coating, as received (fraction by volume);
 i = subscript denoting an individual coating; and
 n = the total number of different coating.
- c. The volume-weighted average mass of VOC's emitted per unit volume of coating solids applied (N) = $(M_o + M_d)/(L_s \times T_{ave})$
 where,
 N = the volume-weighted average mass of VOC emissions to the atmosphere per unit volume of coating solids applied (kilograms per liter); and
 T_{ave} = the volume-weighted average transfer efficiency for a coating operation (fraction);
4. USEPA Method 24 or formulation data shall be used to determine the VOC, OC and HAP contents.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
- a. An identification of each day during which the average OC emissions from this emissions unit exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day.
- b. An identification of each day during which the daily OC emissions from this emissions unit exceeded 40 pounds per day, and the actual daily OC emissions for each such day.
- c. An identification of each month during which the monthly emissions of any individual HAP from the facility exceeded 1,650 pounds per month, and the actual monthly emissions of each such individual HAP for each such month.
- d. An identification of each month during which the monthly emissions of combined HAPs from the facility exceeded 4,150 pounds per month, and the actual monthly emissions of combined HAPs for each such month.
- e. An identification of each month during which the volume-weighted average VOC content of prime or color coatings used in this emissions unit exceeded 1.5 kilograms of VOC per liter of coating solids applied, and the actual volume-weighted average VOC content of prime or color coatings for each such month.
- f. An identification of each month during which the volume-weighted average VOC content of texture coatings or for touch-up used in this emissions unit exceeded 2.3 kilograms of VOC per liter of coating solids applied, and the actual volume-weighted average VOC content of texture coating or for touch-up for each such month.

E. Testing Requirements

1. Compliance with the emission limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods:
- a. Emission Limitation:
 20% opacity as a 6-minute average, except as provided by rule
- Applicable Compliance Method:
 Compliance shall be determined in accordance with the test methods and procedures specified in OAC rule 3745-17-03 (B) (1).
- b. Emission Limitation:
 0.551 pound particulate per hour
- Applicable Compliance Method:
 Compliance shall be determined based upon the actual worst case emission rate by using the following equation:
- $$E = MCSUR \times (1 - TE) \times (1 - CE)$$
- where,
 E = particulate emissions rate, in pound per hour;
 $MCSUR$ = maximum coating solids usage rate, in pounds per hour;
 TE = transfer efficiency, 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 of the control equipment.

c. Emission Limitation:
8 pounds per hour and 40 pounds per day of OC

Applicable Compliance Method:
Compliance shall be determined based upon record keeping requirements specified in section C.3 of these terms and conditions.

d. Emission Limitation:
7.3 tons per year of OC

Applicable Compliance Method:
The tons per year limitations were developed by multiplying the pounds per day limitation by the maximum operating schedule of 365 days per year, and dividing by 2,000 pounds per ton. Therefore, provided compliance is shown with the daily limitation, compliance will also be shown with the annual limitations.

e. Emission Limitation:
2.41 tons per year of particulate

Applicable Compliance Method:
The tons per year limitations were developed by multiplying the pounds per hour limitation by the maximum operating schedule of 8760 hours per year, and dividing by 2,000 pounds per ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitations.

f. Emission Limitation:
1,650 pounds of any individual HAP per month, and
4,150 pounds of all HAPs per month

Applicable Compliance Method:
Compliance shall be determined in accordance with record keeping requirements specified in section C.1 of these terms and conditions.

2. Compliance with the emission limitations in section A.2 of these terms and conditions shall be determined in accordance with the following methods:

Emission Limitation:
1.5 kilograms of VOC per liter of coating solids applied when applying prime coating or color coating and 2.3 kilograms per liter of coating solids applied, when texture coating or for touch-up.

Applicable Compliance Method:
Compliance shall be determined based upon record keeping requirements specified in section C.4 of these terms and conditions.

F. Miscellaneous Requirements

1. The permittee shall conduct an initial compliance test, as specified in 40 CFR 60, Subpart TTT, for any new ink or coating employed in the facility. Records of same shall be maintained on the premises and made available to the any representative of the Director during normal business hours.
2. In accordance with the provisions of OAC rule 3745-35-07, the following special terms and conditions of this permit to operate are federally enforceable: A - F.

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

Facility ID: 0228000127 Emissions Unit ID: R012 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. 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</u>
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Paint spray booth #48	OAC Rule 3745-17-07 OAC rule 3745-17-11 OAC rule 3745-21-07 (G)(2) OAC rule 3745-31-05 (A)(3) PTI # 02-12102 40 CFR Part 60, subpart TTT OAC rule 3745-35-07 (B)	<p>Measures</p> Twenty percent (20%) opacity as a six-minute average, except as provided by rule. Particulate emissions shall not exceed 0.551 pound per hour. The limit based on this rule is less stringent than the limit based on OAC rule 3745-31-05 (A)(3). Organic compound emissions shall not exceed 8 pounds per hour, 40 pounds per day and 7.3 tons per year. Particulate emissions shall not exceed 2.41 tons per year. Total combined hazardous air pollutant (HAP) emissions shall not exceed 4,150 pounds per month facility-wide. Each single HAP emissions shall not exceed 1,650 pounds per month facility-wide. See section A.2.a of these terms and conditions. Equivalent to OAC rule 3745-31-05 (A)(3).
<p>2. Additional Terms and Conditions</p> <p style="padding-left: 40px;">(a) Pursuant to 40 CFR 60.720, Subpart TTT of the New Source Performance Standards, the permittee shall not emit more than 1.5 kilograms of VOC per liter of coating solids applied when applying prime coating or color coating. The permittee shall not emit more than 2.3 kilograms per liter of coating solids applied, when texture coating or for touch-up.</p> <p>B. Operational Restrictions</p> <p>1. None</p> <p>C. Monitoring and/or Record Keeping Requirements</p> <p>1. The permittee shall collect and record the following facility-wide information each month to ensure compliance with the HAP emissions:</p> <p style="padding-left: 40px;">a. The name and identification number of each coating, as applied;</p> <p style="padding-left: 40px;">b. The individual Hazardous Air Pollutant (HAP) content for each HAP of each coating in pounds of individual HAP per gallon of coating, as applied;</p> <p style="padding-left: 40px;">c. The total combined Hazardous Air Pollutants (HAPs) content for each HAP of each coating in pounds of combined HAPs per gallon of coating, as applied (sum all the individual HAP contents from b.);</p> <p style="padding-left: 40px;">d. The number of gallons of each coating employed;</p> <p style="padding-left: 40px;">e. The name and identification of each cleanup material employed;</p> <p style="padding-left: 40px;">f. The individual HAP content for each HAP of each cleanup material in pounds of individual HAP per gallon of cleanup material, as applied;</p> <p style="padding-left: 40px;">g. The total combined HAP content of each cleanup material in pounds of combined HAPs per gallon of cleanup material, as applied (sum all the individual HAP contents from f.);</p> <p style="padding-left: 40px;">h. The number of gallons of each cleanup material employed;</p> <p style="padding-left: 40px;">i. The total individual HAP emissions from each HAP from all coatings and cleanup materials employed, in pounds or tons per month and pounds or tons per rolling 12-month period (for each HAP the sum of b. times d. for each coating, and the sum of f. times h. for each cleanup material); and,</p> <p style="padding-left: 40px;">j. The total combined HAPs emissions from all coatings and cleanup materials employed, in pounds or tons per month and pound or tons per rolling 12-month period (the sum of c. times d. for each coating plus the sum of g. times h. for each cleanup material).</p> <p>2. The permittee shall collect and record the following information each day for the purpose of determining OC emissions:</p> <p style="padding-left: 40px;">a. the name and identification of each coating and cleanup material employed;</p> <p style="padding-left: 40px;">b. the OC content of each coating and cleanup material, in pounds per gallon;</p> <p style="padding-left: 40px;">c. the number of gallons of each cleanup material employed;</p> <p style="padding-left: 40px;">d. the number of gallons (excluding water and exempt solvents) of each coating employed;</p> <p style="padding-left: 40px;">e. the daily OC emissions from all coatings and cleanup materials employed, in pounds;</p> <p style="padding-left: 40px;">f. the number of hours each day that the emissions unit operated; and</p> <p style="padding-left: 40px;">g. the average hourly OC emissions from all coatings and cleanup materials employed, i.e., (e)/(f), in pounds per hour average.</p> <p>3. The permittee shall collect and record the following information each month for this emissions unit:</p>		

- a. The mass of VOC's used ($M_o + M_d$) = the sum, from $i = 1$ to $i = n$ of ($L_c \times D_c \times W_o$) $_i$, plus the sum, $j = 1$ to $j = m$, of ($L_d \times D_d$) $_j$
 where,
 D_c = the density of each coating as received (kilograms per liter);
 D_d = the density of each diluent VOC (kilograms per liter);
 L_c = the volume of each coating consumed, as received (liters);
 L_d = the volume of each diluent coating added to coatings (liters);
 M_d = the mass of diluent VOC's consumed (kilograms);
 M_o = the mass of VOC's in coatings consumed, as received (kilograms);
 W_o = the proportion of VOC's in each coating, as received (fraction by weight);
 i = subscript denoting an individual coating;
 n = the total number of different coating;
 j = subscript denoting an individual diluent VOC's; and
 m = the total number of different diluent VOC's.
- b. The total volume of coating solids consumed (L_s) = the sum, from $i = 1$ to $i = n$, of ($L_c \times V_s$) $_i$,
 where,
 L_s = the volume of coating solids consumed (liters);
 V_s = the proportion of solids in each coating, as received (fraction by volume);
 i = subscript denoting an individual coating; and
 n = the total number of different coating.
- c. The volume-weighted average mass of VOC's emitted per unit volume of coating solids applied (N) = $(M_o + M_d) / (L_s \times T_{ave})$
 where,
 N = the volume-weighted average mass of VOC emissions to the atmosphere per unit volume of coating solids applied (kilograms per liter); and
 T_{ave} = the volume-weighted average transfer efficiency for a coating operation (fraction);

4. USEPA Method 24 or formulation data shall be used to determine the VOC, OC and HAP contents.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
- An identification of each day during which the average OC emissions from this emissions unit exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day.
 - An identification of each day during which the daily OC emissions from this emissions unit exceeded 40 pounds per day, and the actual daily OC emissions for each such day.
 - An identification of each month during which the monthly emissions of any individual HAP from the facility exceeded 1,650 pounds per month, and the actual monthly emissions of each such individual HAP for each such month.
 - An identification of each month during which the monthly emissions of combined HAPs from the facility exceeded 4,150 pounds per month, and the actual monthly emissions of combined HAPs for each such month.
 - An identification of each month during which the volume-weighted average VOC content of prime or color coatings used in this emissions unit exceeded 1.5 kilograms of VOC per liter of coating solids applied, and the actual volume-weighted average VOC content of prime or color coatings for each such month.
 - An identification of each month during which the volume-weighted average VOC content of texture coatings or for touch-up used in this emissions unit exceeded 2.3 kilograms of VOC per liter of coating solids applied, and the actual volume-weighted average VOC content of texture coating or for touch-up for each such month.

E. Testing Requirements

1. Compliance with the emission limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods:
- Emission Limitation:
20% opacity as a 6-minute average, except as provided by rule

Applicable Compliance Method:
Compliance shall be determined in accordance with the test methods and procedures specified in OAC rule 3745-17-03 (B) (1).
 - Emission Limitation:
0.551 pound particulate per hour

Applicable Compliance Method:
Compliance shall be determined based upon the actual worst case emission rate by using the following equation:

$$E = MCSUR \times (1 - TE) \times (1 - CE)$$
 where,
 E = particulate emissions rate, in pound per hour;
 $MCSUR$ = maximum coating solids usage rate, in pounds per hour;
 TE = transfer efficiency, 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 of the control equipment.
 - Emission Limitation:
8 pounds per hour and 40 pounds per day of OC

Applicable Compliance Method:
Compliance shall be determined based upon record keeping requirements specified in section C.3 of these

terms and conditions.

d. Emission Limitation:
7.3 tons per year of OC

Applicable Compliance Method:
The tons per year limitations were developed by multiplying the pounds per day limitation by the maximum operating schedule of 365 days per year, and dividing by 2,000 pounds per ton. Therefore, provided compliance is shown with the daily limitation, compliance will also be shown with the annual limitations.

e. Emission Limitation:
2.41 tons per year of particulate

Applicable Compliance Method:
The tons per year limitations were developed by multiplying the pounds per hour limitation by the maximum operating schedule of 8760 hours per year, and dividing by 2,000 pounds per ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitations.

f. Emission Limitation:
1,650 pounds of any individual HAP per month, and
4,150 pounds of all HAPs per month

Applicable Compliance Method:
Compliance shall be determined in accordance with record keeping requirements specified in section C.1 of these terms and conditions.

2. Compliance with the emission limitations in section A.2 of these terms and conditions shall be determined in accordance with the following methods:

Emission Limitation:
1.5 kilograms of VOC per liter of coating solids applied when applying prime coating or color coating and 2.3 kilograms per liter of coating solids applied, when texture coating or for touch-up.

Applicable Compliance Method:
Compliance shall be determined based upon record keeping requirements specified in section C.4 of these terms and conditions.

F. Miscellaneous Requirements

1. The permittee shall conduct an initial compliance test, as specified in 40 CFR 60, Subpart TTT, for any new ink or coating employed in the facility. Records of same shall be maintained on the premises and made available to the any representative of the Director during normal business hours.
2. In accordance with the provisions of OAC rule 3745-35-07, the following special terms and conditions of this permit to operate are federally enforceable: A - F.

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

Facility ID: 0228000127 Emissions Unit ID: R013 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. 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>
Paint spray booth #49	OAC Rule 3745-17-07	Twenty percent (20%) opacity as a six-minute average, except as provided by rule.
	OAC rule 3745-17-11	Particulate emissions shall not exceed 0.551 pound per hour.
	OAC rule 3745-21-07 (G)(2)	The limit based on this rule is less stringent than the limit based on OAC rule 3745-31-05 (A)(3).

OAC rule 3745-31-05 (A)(3)
PTI # 02-12102

Organic compound emissions shall not exceed 8 pounds per hour, 40 pounds per day and 7.3 tons per year.

Particulate emissions shall not exceed 2.41 tons per year.

Total combined hazardous air pollutant (HAP) emissions shall not exceed 4,150 pounds per month facility-wide. Each single HAP emissions shall not exceed 1,650 pounds per month facility-wide.

40 CFR Part 60, subpart TTT
OAC rule 3745-35-07 (B)

See section A.2.a of these terms and conditions.
Equivalent to OAC rule 3745-31-05 (A)(3).

2. **Additional Terms and Conditions**

- (a) Pursuant to 40 CFR 60.720, Subpart TTT of the New Source Performance Standards, the permittee shall not emit more than 1.5 kilograms of VOC per liter of coating solids applied when applying prime coating or color coating. The permittee shall not emit more than 2.3 kilograms per liter of coating solids applied, when texture coating or for touch-up.

B. **Operational Restrictions**

- 1. None

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

- 1. The permittee shall collect and record the following facility-wide information each month to ensure compliance with the HAP emissions:
 - a. The name and identification number of each coating, as applied;
 - b. The individual Hazardous Air Pollutant (HAP) content for each HAP of each coating in pounds of individual HAP per gallon of coating, as applied;
 - c. The total combined Hazardous Air Pollutants (HAPs) content for each HAP of each coating in pounds of combined HAPs per gallon of coating, as applied (sum all the individual HAP contents from b.);
 - d. The number of gallons of each coating employed;
 - e. The name and identification of each cleanup material employed;
 - f. The individual HAP content for each HAP of each cleanup material in pounds of individual HAP per gallon of cleanup material, as applied;
 - g. The total combined HAP content of each cleanup material in pounds of combined HAPs per gallon of cleanup material, as applied (sum all the individual HAP contents from f.);
 - h. The number of gallons of each cleanup material employed;
 - i. The total individual HAP emissions from each HAP from all coatings and cleanup materials employed, in pounds or tons per month and pounds or tons per rolling 12-month period (for each HAP the sum of b. times d. for each coating, and the sum of f. times h. for each cleanup material); and,
 - j. The total combined HAPs emissions from all coatings and cleanup materials employed, in pounds or tons per month and pound or tons per rolling 12-month period (the sum of c. times d. for each coating plus the sum of g. times h. for each cleanup material).
- 2. The permittee shall collect and record the following information each day for the purpose of determining OC emissions:
 - a. the name and identification of each coating and cleanup material employed;
 - b. the OC content of each coating and cleanup material, in pounds per gallon;
 - c. the number of gallons of each cleanup material employed;
 - d. the number of gallons (excluding water and exempt solvents) of each coating employed;
 - e. the daily OC emissions from all coatings and cleanup materials employed, in pounds;
 - f. the number of hours each day that the emissions unit operated; and
 - g. the average hourly OC emissions from all coatings and cleanup materials employed, i.e., (e)/(f), in pounds per hour average.
- 3. The permittee shall collect and record the following information each month for this emissions unit:
 - a. The mass of VOC's used ($M_o + M_d$) = the sum, from $i = 1$ to $i = n$ of $(L_c \times D_c \times W_o)_i$, plus the sum, $j = 1$ to $j = m$, of $(L_d \times D_d)_j$ where,
 - D_c = the density of each coating as received (kilograms per liter);
 - D_d = the density of each diluent VOC (kilograms per liter);
 - L_c = the volume of each coating consumed, as received (liters);
 - L_d = the volume of each diluent coating added to coatings (liters);
 - M_d = the mass of diluent VOC's consumed (kilograms);
 - M_o = the mass of VOC's in coatings consumed, as received (kilograms);

- W_o = the proportion of VOC's in each coating, as received (fraction by weight);
 i = subscript denoting an individual coating;
 n = the total number of different coating;
 j = subscript denoting an individual diluent VOC's; and
 m = the total number of different diluent VOC's.
- b. The total volume of coating solids consumed (L_s) = the sum, from $i = 1$ to $i = n$, of $(L_c \times V_s)_i$, where,
 L_s = the volume of coating solids consumed (liters);
 V_s = the proportion of solids in each coating, as received (fraction by volume);
 i = subscript denoting an individual coating; and
 n = the total number of different coating.
- c. The volume-weighted average mass of VOC's emitted per unit volume of coating solids applied (N) = $(M_o + M_d)/(L_s \times T_{ave})$
 where,
 N = the volume-weighted average mass of VOC emissions to the atmosphere per unit volume of coating solids applied (kilograms per liter); and
 T_{ave} = the volume-weighted average transfer efficiency for a coating operation (fraction);

4. USEPA Method 24 or formulation data shall be used to determine the VOC, OC and HAP contents.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
- An identification of each day during which the average OC emissions from this emissions unit exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day.
 - An identification of each day during which the daily OC emissions from this emissions unit exceeded 40 pounds per day, and the actual daily OC emissions for each such day.
 - An identification of each month during which the monthly emissions of any individual HAP from the facility exceeded 1,650 pounds per month, and the actual monthly emissions of each such individual HAP for each such month.
 - An identification of each month during which the monthly emissions of combined HAPs from the facility exceeded 4,150 pounds per month, and the actual monthly emissions of combined HAPs for each such month.
 - An identification of each month during which the volume-weighted average VOC content of prime or color coatings used in this emissions unit exceeded 1.5 kilograms of VOC per liter of coating solids applied, and the actual volume-weighted average VOC content of prime or color coatings for each such month.
 - An identification of each month during which the volume-weighted average VOC content of texture coatings or for touch-up used in this emissions unit exceeded 2.3 kilograms of VOC per liter of coating solids applied, and the actual volume-weighted average VOC content of texture coating or for touch-up for each such month.

E. Testing Requirements

1. Compliance with the emission limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods:
- Emission Limitation:
20% opacity as a 6-minute average, except as provided by rule

Applicable Compliance Method:
Compliance shall be determined in accordance with the test methods and procedures specified in OAC rule 3745-17-03 (B) (1).
 - Emission Limitation:
0.551 pound particulate per hour

Applicable Compliance Method:
Compliance shall be determined based upon the actual worst case emission rate by using the following equation:

$$E = MCSUR \times (1 - TE) \times (1 - CE)$$

where,
 E = particulate emissions rate, in pound per hour;
 $MCSUR$ = maximum coating solids usage rate, in pounds per hour;
 TE = transfer efficiency, 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 of the control equipment.
 - Emission Limitation:
8 pounds per hour and 40 pounds per day of OC

Applicable Compliance Method:
Compliance shall be determined based upon record keeping requirements specified in section C.3 of these terms and conditions.
 - Emission Limitation:
7.3 tons per year of OC

Applicable Compliance Method:
The tons per year limitations were developed by multiplying the pounds per day limitation by the maximum operating schedule of 365 days per year, and dividing by 2,000 pounds per ton. Therefore, provided compliance is shown with the daily limitation, compliance will also be shown with the annual limitations.

- e. Emission Limitation:
2.41 tons per year of particulate

Applicable Compliance Method:
The tons per year limitations were developed by multiplying the pounds per hour limitation by the maximum operating schedule of 8760 hours per year, and dividing by 2,000 pounds per ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitations.
 - f. Emission Limitation:
1,650 pounds of any individual HAP per month, and
4,150 pounds of all HAPs per month

Applicable Compliance Method:
Compliance shall be determined in accordance with record keeping requirements specified in section C.1 of these terms and conditions.
 - 2. Compliance with the emission limitations in section A.2 of these terms and conditions shall be determined in accordance with the following methods:

Emission Limitation:
1.5 kilograms of VOC per liter of coating solids applied when applying prime coating or color coating and 2.3 kilograms per liter of coating solids applied, when texture coating or for touch-up.

Applicable Compliance Method:
Compliance shall be determined based upon record keeping requirements specified in section C.4 of these terms and conditions.
- F. Miscellaneous Requirements**
- 1. The permittee shall conduct an initial compliance test, as specified in 40 CFR 60, Subpart TTT, for any new ink or coating employed in the facility. Records of same shall be maintained on the premises and made available to the any representative of the Director during normal business hours.
 - 2. In accordance with the provisions of OAC rule 3745-35-07, the following special terms and conditions of this permit to operate are federally enforceable: A - F.

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

Facility ID: 0228000127 Emissions Unit ID: R014 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

- 1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
- 2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. 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>
Paint spray booth #50A	OAC Rule 3745-17-07	Twenty percent (20%) opacity as a six-minute average, except as provided by rule.
	OAC rule 3745-17-11	Particulate emissions shall not exceed 0.551 pound per hour.
	OAC rule 3745-21-07 (G)(2)	The limit based on this rule is less stringent than the limit based on OAC rule 3745-31-05 (A)(3).
	OAC rule 3745-31-05 (A)(3) PTI # 02-12102	Organic compound emissions shall not exceed 8 pounds per hour, 40 pounds per day and 7.3 tons per year.
		Particulate emissions shall not exceed 2.41 tons per year.
		Total combined hazardous air pollutant (HAP)

emissions shall not exceed 4,150 pounds per month facility-wide. Each single HAP emissions shall not exceed 1,650 pounds per month facility-wide.

40 CFR Part 60, subpart TTT
OAC rule 3745-35-07 (B)

See section A.2.a of these terms and conditions.
Equivalent to OAC rule 3745-31-05 (A)(3).

2. **Additional Terms and Conditions**

- (a) Pursuant to 40 CFR 60.720, Subpart TTT of the New Source Performance Standards, the permittee shall not emit more than 1.5 kilograms of VOC per liter of coating solids applied when applying prime coating or color coating. The permittee shall not emit more than 2.3 kilograms per liter of coating solids applied, when texture coating or for touch-up.

B. **Operational Restrictions**

1. None

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

1. The permittee shall collect and record the following facility-wide information each month to ensure compliance with the HAP emissions:
- The name and identification number of each coating, as applied;
 - The individual Hazardous Air Pollutant (HAP) content for each HAP of each coating in pounds of individual HAP per gallon of coating, as applied;
 - The total combined Hazardous Air Pollutants (HAPs) content for each HAP of each coating in pounds of combined HAPs per gallon of coating, as applied (sum all the individual HAP contents from b.);
 - The number of gallons of each coating employed;
 - The name and identification of each cleanup material employed;
 - The individual HAP content for each HAP of each cleanup material in pounds of individual HAP per gallon of cleanup material, as applied;
 - The total combined HAP content of each cleanup material in pounds of combined HAPs per gallon of cleanup material, as applied (sum all the individual HAP contents from f.);
 - The number of gallons of each cleanup material employed;
 - The total individual HAP emissions from each HAP from all coatings and cleanup materials employed, in pounds or tons per month and pounds or tons per rolling 12-month period (for each HAP the sum of b. times d. for each coating, and the sum of f. times h. for each cleanup material); and,
 - The total combined HAPs emissions from all coatings and cleanup materials employed, in pounds or tons per month and pound or tons per rolling 12-month period (the sum of c. times d. for each coating plus the sum of g. times h. for each cleanup material).
2. The permittee shall collect and record the following information each day for the purpose of determining OC emissions:
- the name and identification of each coating and cleanup material employed;
 - the OC content of each coating and cleanup material, in pounds per gallon;
 - the number of gallons of each cleanup material employed;
 - the number of gallons (excluding water and exempt solvents) of each coating employed;
 - the daily OC emissions from all coatings and cleanup materials employed, in pounds;
 - the number of hours each day that the emissions unit operated; and
 - the average hourly OC emissions from all coatings and cleanup materials employed, i.e., (e)/(f), in pounds per hour average.
3. The permittee shall collect and record the following information each month for this emissions unit:
- The mass of VOC's used $(M_o + M_d) =$ the sum, from $i = 1$ to $i = n$ of $(L_c \times D_c \times W_o)_i$, plus the sum, $j = 1$ to $j = m$, of $(L_d \times D_d)_j$
where,
 D_c = the density of each coating as received (kilograms per liter);
 D_d = the density of each diluent VOC (kilograms per liter);
 L_c = the volume of each coating consumed, as received (liters);
 L_d = the volume of each diluent coating added to coatings (liters);
 M_d = the mass of diluent VOC's consumed (kilograms);
 M_o = the mass of VOC's in coatings consumed, as received (kilograms);
 W_o = the proportion of VOC's in each coating, as received (fraction by weight);
 i = subscript denoting an individual coating;
 n = the total number of different coating;
 j = subscript denoting an individual diluent VOC's; and
 m = the total number of different diluent VOC's.
 - The total volume of coating solids consumed $(L_s) =$ the sum, from $i = 1$ to $i = n$, of $(L_c \times V_s)_i$,
where,
 L_s = the volume of coating solids consumed (liters);

V_s = the proportion of solids in each coating, as received (fraction by volume);
 i = subscript denoting an individual coating; and
 n = the total number of different coating.

c. The volume-weighted average mass of VOC's emitted per unit volume of coating solids applied (N) = $(M_o + M_d)/(L_s \times T_{ave})$
 where,

N = the volume-weighted average mass of VOC emissions to the atmosphere per unit volume of coating solids applied (kilograms per liter); and
 T_{ave} = the volume-weighted average transfer efficiency for a coating operation (fraction);

4. USEPA Method 24 or formulation data shall be used to determine the VOC, OC and HAP contents.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. An identification of each day during which the average OC emissions from this emissions unit exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day.
 - b. An identification of each day during which the daily OC emissions from this emissions unit exceeded 40 pounds per day, and the actual daily OC emissions for each such day.
 - c. An identification of each month during which the monthly emissions of any individual HAP from the facility exceeded 1,650 pounds per month, and the actual monthly emissions of each such individual HAP for each such month.
 - d. An identification of each month during which the monthly emissions of combined HAPs from the facility exceeded 4,150 pounds per month, and the actual monthly emissions of combined HAPs for each such month.
 - e. An identification of each month during which the volume-weighted average VOC content of prime or color coatings used in this emissions unit exceeded 1.5 kilograms of VOC per liter of coating solids applied, and the actual volume-weighted average VOC content of prime or color coatings for each such month.
 - f. An identification of each month during which the volume-weighted average VOC content of texture coatings or for touch-up used in this emissions unit exceeded 2.3 kilograms of VOC per liter of coating solids applied, and the actual volume-weighted average VOC content of texture coating or for touch-up for each such month.

E. Testing Requirements

1. Compliance with the emission limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
 20% opacity as a 6-minute average, except as provided by rule

 Applicable Compliance Method:
 Compliance shall be determined in accordance with the test methods and procedures specified in OAC rule 3745-17-03 (B) (1).
 - b. Emission Limitation:
 0.551 pound particulate per hour

 Applicable Compliance Method:
 Compliance shall be determined based upon the actual worst case emission rate by using the following equation:

$$E = MCSUR \times (1 - TE) \times (1 - CE)$$
 where,
 E = particulate emissions rate, in pound per hour;
 MCSUR = maximum coating solids usage rate, in pounds per hour;
 TE = transfer efficiency, 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 of the control equipment.
 - c. Emission Limitation:
 8 pounds per hour and 40 pounds per day of OC

 Applicable Compliance Method:
 Compliance shall be determined based upon record keeping requirements specified in section C.3 of these terms and conditions.
 - d. Emission Limitation:
 7.3 tons per year of OC

 Applicable Compliance Method:
 The tons per year limitations were developed by multiplying the pounds per day limitation by the maximum operating schedule of 365 days per year, and dividing by 2,000 pounds per ton. Therefore, provided compliance is shown with the daily limitation, compliance will also be shown with the annual limitations.
 - e. Emission Limitation:
 2.41 tons per year of particulate

 Applicable Compliance Method:
 The tons per year limitations were developed by multiplying the pounds per hour limitation by the maximum operating schedule of 8760 hours per year, and dividing by 2,000 pounds per ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitations.

- f. Emission Limitation:
 1,650 pounds of any individual HAP per month, and
 4,150 pounds of all HAPs per month

 Applicable Compliance Method:
 Compliance shall be determined in accordance with record keeping requirements specified in section C.1 of these terms and conditions.
- 2. Compliance with the emission limitations in section A.2 of these terms and conditions shall be determined in accordance with the following methods:

 Emission Limitation:
 1.5 kilograms of VOC per liter of coating solids applied when applying prime coating or color coating and 2.3 kilograms per liter of coating solids applied, when texture coating or for touch-up.

 Applicable Compliance Method:
 Compliance shall be determined based upon record keeping requirements specified in section C.4 of these terms and conditions.

F. Miscellaneous Requirements

- 1. The permittee shall conduct an initial compliance test, as specified in 40 CFR 60, Subpart TTT, for any new ink or coating employed in the facility. Records of same shall be maintained on the premises and made available to the any representative of the Director during normal business hours.
- 2. In accordance with the provisions of OAC rule 3745-35-07, the following special terms and conditions of this permit to operate are federally enforceable: A - F.

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

Facility ID: 0228000127 Emissions Unit ID: R015 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

- 1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
- 2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. 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>
Paint spray booth #50B	OAC Rule 3745-17-07	Twenty percent (20%) opacity as a six-minute average, except as provided by rule.
	OAC rule 3745-17-11	Particulate emissions shall not exceed 0.551 pound per hour.
	OAC rule 3745-21-07 (G)(2)	The limit based on this rule is less stringent than the limit based on OAC rule 3745-31-05 (A)(3).
	OAC rule 3745-31-05 (A)(3) PTI # 02-12102	Organic compound emissions shall not exceed 8 pounds per hour, 40 pounds per day and 7.3 tons per year.
		Particulate emissions shall not exceed 2.41 tons per year.
		Total combined hazardous air pollutant (HAP) emissions shall not exceed 4,150 pounds per month facility-wide. Each single HAP emissions shall not exceed 1,650 pounds per month facility-wide.
	40 CFR Part 60, subpart TTT	See section A.2.a of these terms and conditions.
	OAC rule 3745-35-07 (B)	Equivalent to OAC rule 3745-31-05 (A)(3).

- 2. **Additional Terms and Conditions**

- (a) Pursuant to 40 CFR 60.720, Subpart TTT of the New Source Performance Standards, the permittee shall not emit more than 1.5 kilograms of VOC per liter of coating solids applied when applying prime coating or color coating. The permittee shall not emit more than 2.3 kilograms per liter of coating solids applied, when texture coating or for touch-up.
- B. Operational Restrictions**
1. None
- C. Monitoring and/or Record Keeping Requirements**
1. The permittee shall collect and record the following facility-wide information each month to ensure compliance with the HAP emissions:
- The name and identification number of each coating, as applied;
 - The individual Hazardous Air Pollutant (HAP) content for each HAP of each coating in pounds of individual HAP per gallon of coating, as applied;
 - The total combined Hazardous Air Pollutants (HAPs) content for each HAP of each coating in pounds of combined HAPs per gallon of coating, as applied (sum all the individual HAP contents from b.);
 - The number of gallons of each coating employed;
 - The name and identification of each cleanup material employed;
 - The individual HAP content for each HAP of each cleanup material in pounds of individual HAP per gallon of cleanup material, as applied;
 - The total combined HAP content of each cleanup material in pounds of combined HAPs per gallon of cleanup material, as applied (sum all the individual HAP contents from f.);
 - The number of gallons of each cleanup material employed;
 - The total individual HAP emissions from each HAP from all coatings and cleanup materials employed, in pounds or tons per month and pounds or tons per rolling 12-month period (for each HAP the sum of b. times d. for each coating, and the sum of f. times h. for each cleanup material); and,
 - The total combined HAPs emissions from all coatings and cleanup materials employed, in pounds or tons per month and pound or tons per rolling 12-month period (the sum of c. times d. for each coating plus the sum of g. times h. for each cleanup material).
2. The permittee shall collect and record the following information each day for the purpose of determining OC emissions:
- the name and identification of each coating and cleanup material employed;
 - the OC content of each coating and cleanup material, in pounds per gallon;
 - the number of gallons of each cleanup material employed;
 - the number of gallons (excluding water and exempt solvents) of each coating employed;
 - the daily OC emissions from all coatings and cleanup materials employed, in pounds;
 - the number of hours each day that the emissions unit operated; and
 - the average hourly OC emissions from all coatings and cleanup materials employed, i.e., (e)/(f), in pounds per hour average.
3. The permittee shall collect and record the following information each month for this emissions unit:
- The mass of VOC's used ($M_o + M_d$) = the sum, from $i = 1$ to $i = n$ of $(L_c \times D_c \times W_o)_i$, plus the sum, $j = 1$ to $j = m$, of $(L_d \times D_d)_j$
 where,
 D_c = the density of each coating as received (kilograms per liter);
 D_d = the density of each diluent VOC (kilograms per liter);
 L_c = the volume of each coating consumed, as received (liters);
 L_d = the volume of each diluent coating added to coatings (liters);
 M_d = the mass of diluent VOC's consumed (kilograms);
 M_o = the mass of VOC's in coatings consumed, as received (kilograms);
 W_o = the proportion of VOC's in each coating, as received (fraction by weight);
 i = subscript denoting an individual coating;
 n = the total number of different coating;
 j = subscript denoting an individual diluent VOC's; and
 m = the total number of different diluent VOC's.
 - The total volume of coating solids consumed (L_s) = the sum, from $i = 1$ to $i = n$, of $(L_c \times V_s)_i$,
 where,
 L_s = the volume of coating solids consumed (liters);
 V_s = the proportion of solids in each coating, as received (fraction by volume);
 i = subscript denoting an individual coating; and
 n = the total number of different coating.
 - The volume-weighted average mass of VOC's emitted per unit volume of coating solids applied (N) = $(M_o + M_d)/(L_s \times T_{ave})$
 where,
 N = the volume-weighted average mass of VOC emissions to the atmosphere per unit volume of coating solids

applied (kilograms per liter); and
 T_{ave} = the volume-weighted average transfer efficiency for a coating operation (fraction);

4. USEPA Method 24 or formulation data shall be used to determine the VOC, OC and HAP contents.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
- An identification of each day during which the average OC emissions from this emissions unit exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day.
 - An identification of each day during which the daily OC emissions from this emissions unit exceeded 40 pounds per day, and the actual daily OC emissions for each such day.
 - An identification of each month during which the monthly emissions of any individual HAP from the facility exceeded 1,650 pounds per month, and the actual monthly emissions of each such individual HAP for each such month.
 - An identification of each month during which the monthly emissions of combined HAPs from the facility exceeded 4,150 pounds per month, and the actual monthly emissions of combined HAPs for each such month.
 - An identification of each month during which the volume-weighted average VOC content of prime or color coatings used in this emissions unit exceeded 1.5 kilograms of VOC per liter of coating solids applied, and the actual volume-weighted average VOC content of prime or color coatings for each such month.
 - An identification of each month during which the volume-weighted average VOC content of texture coatings or for touch-up used in this emissions unit exceeded 2.3 kilograms of VOC per liter of coating solids applied, and the actual volume-weighted average VOC content of texture coating or for touch-up for each such month.

E. Testing Requirements

1. Compliance with the emission limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods:
- Emission Limitation:**
20% opacity as a 6-minute average, except as provided by rule
 - Applicable Compliance Method:**
Compliance shall be determined in accordance with the test methods and procedures specified in OAC rule 3745-17-03 (B) (1).
 - Emission Limitation:**
0.551 pound particulate per hour
 - Applicable Compliance Method:**
Compliance shall be determined based upon the actual worst case emission rate by using the following equation:
$$E = MCSUR \times (1 - TE) \times (1 - CE)$$
where,
E = particulate emissions rate, in pound per hour;
MCSUR = maximum coating solids usage rate, in pounds per hour;
TE = transfer efficiency, 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 of the control equipment.
 - Emission Limitation:**
8 pounds per hour and 40 pounds per day of OC
 - Applicable Compliance Method:**
Compliance shall be determined based upon record keeping requirements specified in section C.3 of these terms and conditions.
 - Emission Limitation:**
7.3 tons per year of OC
 - Applicable Compliance Method:**
The tons per year limitations were developed by multiplying the pounds per day limitation by the maximum operating schedule of 365 days per year, and dividing by 2,000 pounds per ton. Therefore, provided compliance is shown with the daily limitation, compliance will also be shown with the annual limitations.
 - Emission Limitation:**
2.41 tons per year of particulate
 - Applicable Compliance Method:**
The tons per year limitations were developed by multiplying the pounds per hour limitation by the maximum operating schedule of 8760 hours per year, and dividing by 2,000 pounds per ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitations.
 - Emission Limitation:**
1,650 pounds of any individual HAP per month, and
4,150 pounds of all HAPs per month
 - Applicable Compliance Method:**
Compliance shall be determined in accordance with record keeping requirements specified in section C.1 of these terms and conditions.
2. Compliance with the emission limitations in section A.2 of these terms and conditions shall be determined in

accordance with the following methods:

Emission Limitation:

1.5 kilograms of VOC per liter of coating solids applied when applying prime coating or color coating and 2.3 kilograms per liter of coating solids applied, when texture coating or for touch-up.

Applicable Compliance Method:

Compliance shall be determined based upon record keeping requirements specified in section C.4 of these terms and conditions.

F. Miscellaneous Requirements

1. The permittee shall conduct an initial compliance test, as specified in 40 CFR 60, Subpart TTT, for any new ink or coating employed in the facility. Records of same shall be maintained on the premises and made available to the any representative of the Director during normal business hours.
2. In accordance with the provisions of OAC rule 3745-35-07, the following special terms and conditions of this permit to operate are federally enforceable: A - F.

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

Facility ID: 0228000127 Emissions Unit ID: R016 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. 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>
Paint spray booth #51	OAC Rule 3745-17-07	Twenty percent (20%) opacity as a six-minute average, except as provided by rule.
	OAC rule 3745-17-11	Particulate emissions shall not exceed 0.551 pound per hour.
	OAC rule 3745-21-07 (G)(2)	The limit based on this rule is less stringent than the limit based on OAC rule 3745-31-05 (A)(3).
	OAC rule 3745-31-05 (A)(3) PTI # 02-12102	Organic compound emissions shall not exceed 8 pounds per hour, 40 pounds per day and 7.3 tons per year.
		Particulate emissions shall not exceed 2.41 tons per year.
		Total combined hazardous air pollutant (HAP) emissions shall not exceed 4,150 pounds per month facility-wide. Each single HAP emissions shall not exceed 1,650 pounds per month facility-wide.
	40 CFR Part 60, subpart TTT	See section A.2.a of these terms and conditions.
	OAC rule 3745-35-07 (B)	Equivalent to OAC rule 3745-31-05 (A)(3).

2. Additional Terms and Conditions

- (a) Pursuant to 40 CFR 60.720, Subpart TTT of the New Source Performance Standards, the permittee shall not emit more than 1.5 kilograms of VOC per liter of coating solids applied when applying prime coating or color coating. The permittee shall not emit more than 2.3 kilograms per liter of coating solids applied, when texture coating or for touch-up.

B. Operational Restrictions

1. None

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following facility-wide information each month to ensure compliance with the HAP emissions:
 - a. The name and identification number of each coating, as applied;
 - b. The individual Hazardous Air Pollutant (HAP) content for each HAP of each coating in pounds of individual HAP per gallon of coating, as applied;
 - c. The total combined Hazardous Air Pollutants (HAPs) content for each HAP of each coating in pounds of combined HAPs per gallon of coating, as applied (sum all the individual HAP contents from b.);
 - d. The number of gallons of each coating employed;
 - e. The name and identification of each cleanup material employed;
 - f. The individual HAP content for each HAP of each cleanup material in pounds of individual HAP per gallon of cleanup material, as applied;
 - g. The total combined HAP content of each cleanup material in pounds of combined HAPs per gallon of cleanup material, as applied (sum all the individual HAP contents from f.);
 - h. The number of gallons of each cleanup material employed;
 - i. The total individual HAP emissions from each HAP from all coatings and cleanup materials employed, in pounds or tons per month and pounds or tons per rolling 12-month period (for each HAP the sum of b. times d. for each coating, and the sum of f. times h. for each cleanup material); and,
 - j. The total combined HAPs emissions from all coatings and cleanup materials employed, in pounds or tons per month and pound or tons per rolling 12-month period (the sum of c. times d. for each coating plus the sum of g. times h. for each cleanup material).
 2. The permittee shall collect and record the following information each day for the purpose of determining OC emissions:
 - a. the name and identification of each coating and cleanup material employed;
 - b. the OC content of each coating and cleanup material, in pounds per gallon;
 - c. the number of gallons of each cleanup material employed;
 - d. the number of gallons (excluding water and exempt solvents) of each coating employed;
 - e. the daily OC emissions from all coatings and cleanup materials employed, in pounds;
 - f. the number of hours each day that the emissions unit operated; and
 - g. the average hourly OC emissions from all coatings and cleanup materials employed, i.e., (e)/(f), in pounds per hour average.
 3. The permittee shall collect and record the following information each month for this emissions unit:
 - a. The mass of VOC's used $(M_o + M_d) = \text{the sum, from } i = 1 \text{ to } i = n \text{ of } (L_c \times D_c \times W_o)_i$, plus the sum, $j = 1 \text{ to } j = m$, of $(L_d \times D_d)_j$
 where,
 D_c = the density of each coating as received (kilograms per liter);
 D_d = the density of each diluent VOC (kilograms per liter);
 L_c = the volume of each coating consumed, as received (liters);
 L_d = the volume of each diluent coating added to coatings (liters);
 M_d = the mass of diluent VOC's consumed (kilograms);
 M_o = the mass of VOC's in coatings consumed, as received (kilograms);
 W_o = the proportion of VOC's in each coating, as received (fraction by weight);
 i = subscript denoting an individual coating;
 n = the total number of different coating;
 j = subscript denoting an individual diluent VOC's; and
 m = the total number of different diluent VOC's.
 - b. The total volume of coating solids consumed $(L_s) = \text{the sum, from } i = 1 \text{ to } i = n$, of $(L_c \times V_s)_i$,
 where,
 L_s = the volume of coating solids consumed (liters);
 V_s = the proportion of solids in each coating, as received (fraction by volume);
 i = subscript denoting an individual coating; and
 n = the total number of different coating.
 - c. The volume-weighted average mass of VOC's emitted per unit volume of coating solids applied $(N) = (M_o + M_d)/(L_s \times T_{ave})$
 where,
 N = the volume-weighted average mass of VOC emissions to the atmosphere per unit volume of coating solids applied (kilograms per liter); and
 T_{ave} = the volume-weighted average transfer efficiency for a coating operation (fraction);
 4. USEPA Method 24 or formulation data shall be used to determine the VOC, OC and HAP contents.
- D. Reporting Requirements**
1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. An identification of each day during which the average OC emissions from this emissions unit exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day.

- b. An identification of each day during which the daily OC emissions from this emissions unit exceeded 40 pounds per day, and the actual daily OC emissions for each such day.
- c. An identification of each month during which the monthly emissions of any individual HAP from the facility exceeded 1,650 pounds per month, and the actual monthly emissions of each such individual HAP for each such month.
- d. An identification of each month during which the monthly emissions of combined HAPs from the facility exceeded 4,150 pounds per month, and the actual monthly emissions of combined HAPs for each such month.
- e. An identification of each month during which the volume-weighted average VOC content of prime or color coatings used in this emissions unit exceeded 1.5 kilograms of VOC per liter of coating solids applied, and the actual volume-weighted average VOC content of prime or color coatings for each such month.
- f. An identification of each month during which the volume-weighted average VOC content of texture coatings or for touch-up used in this emissions unit exceeded 2.3 kilograms of VOC per liter of coating solids applied, and the actual volume-weighted average VOC content of texture coating or for touch-up for each such month.

E. Testing Requirements

1. Compliance with the emission limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
20% opacity as a 6-minute average, except as provided by rule

Applicable Compliance Method:
Compliance shall be determined in accordance with the test methods and procedures specified in OAC rule 3745-17-03 (B) (1).
 - b. Emission Limitation:
0.551 pound particulate per hour

Applicable Compliance Method:
Compliance shall be determined based upon the actual worst case emission rate by using the following equation:

$$E = MCSUR \times (1 - TE) \times (1 - CE)$$
 where,
 E = particulate emissions rate, in pound per hour;
 MCSUR = maximum coating solids usage rate, in pounds per hour;
 TE = transfer efficiency, 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 of the control equipment.
 - c. Emission Limitation:
8 pounds per hour and 40 pounds per day of OC

Applicable Compliance Method:
Compliance shall be determined based upon record keeping requirements specified in section C.3 of these terms and conditions.
 - d. Emission Limitation:
7.3 tons per year of OC

Applicable Compliance Method:
The tons per year limitations were developed by multiplying the pounds per day limitation by the maximum operating schedule of 365 days per year, and dividing by 2,000 pounds per ton. Therefore, provided compliance is shown with the daily limitation, compliance will also be shown with the annual limitations.
 - e. Emission Limitation:
2.41 tons per year of particulate

Applicable Compliance Method:
The tons per year limitation was developed by multiplying the pounds per hour limitation by the maximum operating schedule of 8760 hours per year, and dividing by 2,000 pounds per ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitations.
 - f. Emission Limitation:
1,650 pounds of any individual HAP per month, and
4,150 pounds of all HAPs per month

Applicable Compliance Method:
Compliance shall be determined in accordance with record keeping requirements specified in section C.1 of these terms and conditions.
2. Compliance with the emission limitations in section A.2 of these terms and conditions shall be determined in accordance with the following methods:
 - Emission Limitation:
1.5 kilograms of VOC per liter of coating solids applied when applying prime coating or color coating and 2.3 kilograms per liter of coating solids applied, when texture coating or for touch-up.

Applicable Compliance Method:
Compliance shall be determined based upon record keeping requirements specified in section C.4 of these terms and conditions.

F. Miscellaneous Requirements

1. The permittee shall conduct an initial compliance test, as specified in 40 CFR 60, Subpart TTT, for any new ink or coating employed in the facility. Records of same shall be maintained on the premises and made available to the any representative of the Director during normal business hours.
2. In accordance with the provisions of OAC rule 3745-35-07, the following special terms and conditions of this permit to operate are federally enforceable: A - F.