

Synthetic Minor Determination and/or Netting Determination

Permit To Install 14-05550

A. Source Description

Degussa Corporation is a pigment mixing facility located in Cincinnati, Ohio. The facility mixes paints to the customer demand for color and pigment size. Once the paint is mixed to the proper specifications, the material is then pumped into holding tanks before shipment to the customer.

B. Facility Emissions and Attainment Status

The annual allowable VOC emissions for the facility will be 45.4 TPY. The facility is located in Hamilton County which is nonattainment for ozone.

C. Source Emissions

Most of the emissions from the facility come from the solvent-based mixers (P007-P009). Emissions units P010-P017 only mix aqueous-based products. The solvent-based mixers and aqueous-based mixers were permitted under separate group limits in the same synthetic minor permit (PTI 14-04380). The new permit modification (PTI 14-05550) will only affect the aqueous-based mixers. The potential to emit for emissions units P007 - P017 is 251 TPY.

D. Conclusion

The facility wants to add one mill that will feed sources P016 and P017 to their synthetic minor group permit. The permittee will maintain the original material usage records to demonstrate compliance with the permit limits. The facility will accept a facility wide limit of 45.4 TPY OC, less than 10 tons per year for each individual HAP and less than 25 tons per year for combined HAPs to avoid the Emissions Offset and Title V requirements. The facility will also keep rolling, 12-month summation production records to demonstrate compliance with the permit limits.



State of Ohio Environmental Protection Agency

Street Address:

Mailing Address:

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Lazarus Gov. Center

**RE: DRAFT PERMIT TO INSTALL CERTIFIED MAIL
HAMILTON COUNTY**

Application No: 14-05550

DATE: 4/20/2004

Degussa Corporation
William Griffith
379 Interpace Parkway
Parsippany, NJ 07054

You are hereby notified that the Ohio Environmental Protection Agency has made a draft action recommending that the Director issue a Permit to Install for the air contaminant source(s) [emissions unit(s)] shown on the enclosed draft permit. This draft action is not an authorization to begin construction or modification of your emissions unit(s). The purpose of this draft is to solicit public comments on the proposed installation. A public notice concerning the draft permit will appear in the Ohio EPA Weekly Review and the newspaper in the county where the facility will be located. Public comments will be accepted by the field office within 30 days of the date of publication in the newspaper. Any comments you have on the draft permit should be directed to the appropriate field office within the comment period. A copy of your comments should also be mailed to Robert Hodanbosi, Division of Air Pollution Control, Ohio EPA, P.O. Box 1049, Columbus, OH, 43266-0149.

A Permit to Install may be issued in proposed or final form based on the draft action, any written public comments received within 30 days of the public notice, or record of a public meeting if one is held. You will be notified in writing of a scheduled public meeting. Upon issuance of a final Permit to Install a fee of **\$4500** will be due. Please do not submit any payment now.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469. If you have any questions about this draft permit, please contact the field office where you submitted your application, or Mike Ahern, Field Operations & Permit Section at (614) 644-3631.

Very truly yours,

Michael W. Ahern, Supervisor
Field Operations and Permit Section
Division of Air Pollution Control

CC: USEPA

HCDES

OH-KY-IN Regional Council of Gov.

KY

IN

HAMILTON COUNTY

PUBLIC NOTICE

ISSUANCE OF DRAFT PERMIT TO INSTALL **14-05550** FOR AN AIR CONTAMINANT SOURCE FOR **DEGUSSA CORPORATION**

On 4/20/2004 the Director of the Ohio Environmental Protection Agency issued a draft action of a Permit To Install an air contaminant source for **Degussa Corporation**, located at **620 Shepherd Drive, Lockland, Ohio**.

Installation of the air contaminant source identified below may proceed upon final issuance of Permit To Install 14-05550:

Chapter 31 Modification to PTI 14-04380 for sources P010 - P017.

Comments concerning this draft action, or a request for a public meeting, must be sent in writing to the address identified below no later than thirty (30) days from the date this notice is published. All inquiries concerning this draft action may be directed to the contact identified below.

Brad Miller, Hamilton County Department of Environmental Services, 250 William Howard Taft Pkwy,
Cincinnati, OH 45219-2660 [(513)946-7777]



**Permit To Install
Terms and Conditions**

**Issue Date: To be entered upon final issuance
Effective Date: To be entered upon final issuance**

DRAFT PERMIT TO INSTALL 14-05550

Application Number: 14-05550
APS Premise Number: 1431260080
Permit Fee: **To be entered upon final issuance**
Name of Facility: Degussa Corporation
Person to Contact: William Griffith
Address: 379 Interpace Parkway
Parsippany, NJ 07054

Location of proposed air contaminant source(s) [emissions unit(s)]:

**620 Shepherd Drive
Lockland, Ohio**

Description of proposed emissions unit(s):

Chapter 31 Modification to PTI 14-04380 for sources P010 - P017.

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Part I - GENERAL TERMS AND CONDITIONS

A. Permit to Install General Terms and Conditions

1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

2. Reporting Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

3. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any

information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

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

6. Permit Transfers

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

7. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

8. Termination of Permit to Install

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

9. Construction of New Sources(s)

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions

Degussa Corporation

Facility ID: 1431260080

PTI Application: 14-05550

Issued: To be entered upon final issuance

and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

10. Public Disclosure

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

11. Applicability

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

12. Best Available Technology

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

13. Source Operation and Operating Permit Requirements After Completion of Construction

- a. If the permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77, the permittee shall submit a complete Title V permit application or a complete

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Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).

- b. If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35, the source(s) identified in this Permit To Install is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. Permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the source(s) covered by this permit.

14. Construction Compliance Certification

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

15. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

B. Permit to Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

SUMMARY (for informational purposes only)
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons Per Year</u>
OC	14.0

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 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>
P010 - North Premix Tanks and Mills Aqueous Based Production	OAC rule 3745-31-05(A)(3)	0.08 lb/hr OC See Section B.3 The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C).
	OAC rule 3745-31-05(C)	See Sections A.2.c., A.2.d., and B.1.
	OAC rule 3745-21-07(G)	Exempt, See Section B.2.

2. Additional Terms and Conditions

- 2.a Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the usage and emission limitations.
- 2.b The hourly emission limitation is based upon the emissions unit's PTE. Therefore, no hourly records are required to demonstrate compliance with this limit.
- 2.c The organic compound (OC) emissions from the aqueous-based colorant production shall not exceed 14.0 tons per year for emissions units, P010 through P017 combined, based upon a rolling, 12-month summation.
- 2.d The actual emissions of Hazardous Air Pollutants (HAPs), as identified in Section 112(b) of Title III of the Clean Air Act from emissions units P007 - P017 shall not exceed 9.9

Degus

PTI A

Emissions Unit ID: **P010**

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TPY for any single HAP and 24.9 TPY for any combination of HAPs. Compliance with the above limitations shall be based on a rolling, 12-month summation.

B. Operational Restrictions

1. The maximum annual production rate for aqueous-based colorants in emissions units P010 through P017 shall not exceed 50,000,000 pounds of colorant per year, based on a rolling 12-month summation of the production rates.

The permittee has existing records to demonstrate compliance with this limitation upon permit issuance.

2. The use of photochemically reactive materials as defined in OAC rule 3745-21-01(C)(5) is prohibited.
3. The permittee shall use fitted covers on this emissions unit while in operation or holding any material containing organic compounds.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month:
 - a. The company identification of each colorant employed in this emissions unit.
 - b. A record for each colorant employed, indicating whether or not the colorant is photochemically reactive as identified in OAC rule 3745-21-01(C)(5).
2. The permittee shall collect and record the following information each month for emissions units P010 through P017:
 - a. The name and identification number of each colorant employed.
 - b. The number of pounds of each colorant employed.
 - c. The total organic compound emission rate for all colorants employed, in pounds or tons.
 - d. The updated rolling, 12-month summation of the total colorant usage, in pounds. This shall include the information for the current month and the preceding eleven months.

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- e. The rolling, 12-month summation of the OC emissions, in tons.
3. The permittee shall collect and record the following information each month for emissions units P007 - P017:
 - a. The name and identification number of each colorant employed;
 - b. The individual Hazardous Air Pollutant (HAP) content for each HAP of each colorant in pounds of individual HAP per pound of colorant, as applied;
 - c. The total combined HAP content of each colorant in pounds of combined HAPs per pound of colorant, as applied [sum all the individual HAP contents from (b)];
 - d. The number of pounds of each colorant 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 for each HAP from all colorants produced and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times the emissions factor in E.1.a divided by 2000 lbs/ton for each colorant plus the sum of (f) times (h) for each cleanup material];
 - j. The total combined HAP emissions from all colorants produced and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times the emissions factor in E.1.a divided by 2000 lbs/ton for each colorant plus the sum of (g) times (h) for each cleanup material];
 - k. The updated rolling, 12-month summation of the individual HAP emissions, in pounds or tons. This shall include the information for the current month and the preceding eleven calendar months; and

Emissions Unit ID: P010

1. The updated rolling, 12-month summation of the combined HAP emissions, in pounds or tons. This shall include the information for the current month and the preceding eleven calendar months.

* A listing of the HAPs can be found in Section 112(b) of the Clean Air Act or can be obtained by contacting your Hamilton County Department of Environmental Services contact. This information does not have to be kept on a individual emissions unit basis.

4. The permit to install for emissions units P010 through P017 was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Ground-Level Concentration (MAGLC).

The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: Ethylene Glycol
TLV (ug/m³): 100,000
Maximum Hourly Emission Rate (lbs/hr): 6.8
Predicted 1-Hour Maximum Ground-Level
Concentration (ug/m³): 842
MAGLC (ug/m³): 2381

Physical changes to or in the method of operation of the emissions unit after it's installation or modification could affect the parameters used to determine whether or not the "Air Toxics Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in the "Air Toxic Policy" include the following:

- a. Changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
- b. Changes in the composition of the materials, or use of new materials, that would result in

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an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and

- c. Physical changes to the emissions unit or its exhaust parameters (e.g., increased/decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied with the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is(are) defined as a modification under other provisions of the modification definition [other than (VV)(1)(a)(ii)], then the permittee shall obtain a final permit to install prior to the change.

The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will satisfy the Air Toxic Policy:"

- a. A description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. Documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. When the computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services in writing identifying each day during which any photochemically reactive material [as defined in OAC rule 3745-21-01(C)(5)] was employed in this emissions unit. This report shall identify the cause for the use of photochemically reactive material(s) and the estimated total quantity of material(s) emitted each such day. This report shall be submitted to the Hamilton County Department of Environmental Services within 45 days after the exceedance occurs.
2. The permittee shall submit quarterly deviation reports which identify any exceedance of the OC emission limitation set forth in term A.2.c. If no deviations occurred during the reporting period, the permittee shall state so in the report.

The reports shall be submitted to the Director (the Hamilton County Department of Environmental Services) by January 31, April 30, July 31 and October 31 of each year and shall cover the previous three calendar months (October through December, January through March,

April through June and July through September, respectively) .

3. The permittee shall submit quarterly deviation reports which identify any exceedance of the HAP emission limitations set forth in term A.2.d. If no deviations occurred during the reporting period, the permittee shall state so in the report.

The reports shall be submitted to the Director (the Hamilton County Department of Environmental Services) by January 31, April 30, July 31 and October 31 of each year and shall cover the previous three calendar months (October through December, January through March, April through June and July through September, respectively) .

4. The permittee shall submit quarterly deviation (excursion) reports to the Hamilton County Department of Environmental Services which identify all exceedances of the rolling, 12-month colorant usage limitation in term B.1. If no deviations occurred during the reporting period, the permittee shall state so in the report.

The reports shall be submitted to the Director (the Hamilton County Department of Environmental Services) by January 31, April 30, July 31 and October 31 of each year and shall cover the previous three calendar months (October through December, January through March, April through June and July through September, respectively) .

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:
0.08 lb/hr OC

Applicable Compliance Method:

Compliance with the OC emission rate from the aqueous-based colorant production shall be determined by the following equation:

$$E = A \times 0.0005 \text{ tons/lb} \times F$$

E is the OC emission rate in tons

A is the maximum hourly aqueous-based colorant production in pounds

F is the emissions factor provided by the facility for the aqueous-based colorant (1.11 lbs OC/ton production).

Degus

PTI A

Emissions Unit ID: **P010**

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- b. Emission Limitation:
14.0 TPY OC for emissions units P010 through P017 based upon a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements as specified in Section C.2.

The OC emission rate from the aqueous-based colorant production shall be determined by the following equation:

$$E = A \times 0.0005 \text{ tons/lb} \times F \times 0.0005 \text{ tons/lb}$$

E is the OC emission rate in tons

A is the monthly or annual aqueous-based colorant production in pounds

F is the emissions factor provided by the facility for the aqueous-based colorant (1.11 lbs OC/ton production).

- c. Emission Limitation:
50,000,000 pounds/year colorant, based upon a rolling, 12-month summation

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements as specified in Section C.2.

- d. Emission Limitation:
9.9 TPY for any single HAP and 24.9 TPY for combined HAPs

Degussa Corporation
PTI A
Issued

Facility ID: 1431260080

Emissions Unit ID: **P010**

Applicable Compliance Method:
Compliance with the HAP emission limitations will be determined by the record keeping requirements specified in Section C.3.

F. Miscellaneous Requirements

- 1 The terms and conditions in this permit to install supersede Permit to Install 14-04380, for emissions units P010 through P017, as issued on September 24, 1997 and modified on July 22, 1998.
2. The following terms and conditions of this permit are federally enforceable: A, B, C.1 - C.3 , D and E.

Degus

PTI A

Emissions Unit ID: P011

Issued: To be entered upon final issuance

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operations(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 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>
P011 - West Toning Mixture and Tanks Aqueous Based Production	OAC rule 3745-31-05(A)(3)	1.24 lbs/hr OC
	OAC rule 3745-31-05(C)	See Section B.3 The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C).
	OAC rule 3745-21-07(G)	See Sections A.2.c., A.2.d., and B.1. Exempt, See Section B.2.

2. Additional Terms and Conditions

- 2.a Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the usage and emission limitations.
- 2.b The hourly emission limitation is based upon the emissions unit's PTE. Therefore, no hourly records are required to demonstrate compliance with this limit.
- 2.c The organic compound (OC) emissions from the aqueous-based colorant production shall not exceed 14.0 tons per year for emissions units, P010 through P017 combined, based upon a rolling, 12-month summation.
- 2.d The actual emissions of Hazardous Air Pollutants (HAPs), as identified in Section 112(b)

Degus

PTI A

Emissions Unit ID: **P011**

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of Title III of the Clean Air Act from emissions units P007 - P017 shall not exceed 9.9 TPY for any single HAP and 24.9 TPY for any combination of HAPs. Compliance with the above limitations shall be based on a rolling, 12-month summation.

B. Operational Restrictions

1. The maximum annual production rate for aqueous-based colorants in emissions units P010 through P017 shall not exceed 50,000,000 pounds of colorant per year, based on a rolling 12-month summation of the production rates.

The permittee has existing records to demonstrate compliance with this limitation upon permit issuance.

2. The use of photochemically reactive materials as defined in OAC rule 3745-21-01(C)(5) is prohibited.
3. The permittee shall use fitted covers on this emissions unit while in operation or holding any material containing organic compounds.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month:
 - a. The company identification of each colorant employed in this emissions unit.
 - b. A record for each colorant employed, indicating whether or not the colorant is photochemically reactive as identified in OAC rule 3745-21-01(C)(5).
2. The permittee shall collect and record the following information each month for emissions units P010 through P017:
 - a. The name and identification number of each colorant employed.
 - b. The number of pounds of each colorant employed.
 - c. The total organic compound emission rate for all colorants employed, in pounds or tons.
 - d. The updated rolling, 12-month summation of the total colorant usage, in pounds. This shall

include the information for the current month and the preceding eleven months.

- e. The rolling, 12-month summation of the OC emissions, in tons.
3. The permittee shall collect and record the following information each month for emissions units P007 - P017:
- a. The name and identification number of each colorant employed;
 - b. The individual Hazardous Air Pollutant (HAP) content for each HAP of each colorant in pounds of individual HAP per pound of colorant, as applied;
 - c. The total combined HAP content of each colorant in pounds of combined HAPs per pound of colorant, as applied [sum all the individual HAP contents from (b)];
 - d. The number of pounds of each colorant 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 for each HAP from all colorants produced and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times the emissions factor in E.1.a divided by 2000 lbs/ton for each colorant plus the sum of (f) times (h) for each cleanup material];
 - j. The total combined HAP emissions from all colorants produced and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times the emissions factor in E.1.a divided by 2000 lbs/ton for each colorant plus the sum of (g) times (h) for each cleanup material];
 - k. The updated rolling, 12-month summation of the individual HAP emissions, in pounds or tons. This shall include the information for the current month and the preceding eleven calendar months; and

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1. The updated rolling, 12-month summation of the combined HAP emissions, in pounds or tons. This shall include the information for the current month and the preceding eleven calendar months.

* A listing of the HAPs can be found in Section 112(b) of the Clean Air Act or can be obtained by contacting your Hamilton County Department of Environmental Services contact. This information does not have to be kept on a individual emissions unit basis.

4. The permit to install for emissions units P010 through P017 was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Ground-Level Concentration (MAGLC).

The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: Ethylene Glycol

TLV (ug/m³): 100,000

Maximum Hourly Emission Rate (lbs/hr): 6.8

Predicted 1-Hour Maximum Ground-Level

Concentration (ug/m³): 842

MAGLC (ug/m³): 2381

Physical changes to or in the method of operation of the emissions unit after it's installation or modification could affect the parameters used to determine whether or not the "Air Toxics Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in the "Air Toxic Policy" include the following:

- a. Changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;

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- b. Changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
- c. Physical changes to the emissions unit or its exhaust parameters (e.g., increased/decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied with the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is(are) defined as a modification under other provisions of the modification definition [other than (VV)(1)(a)(ii)], then the permittee shall obtain a final permit to install prior to the change.

The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will satisfy the Air Toxic Policy:"

- a. A description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. Documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. When the computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services in writing identifying each day during which any photochemically reactive material [as defined in OAC rule 3745-21-01(C)(5)] was employed in this emissions unit. This report shall identify the cause for the use of photochemically reactive material(s) and the estimated total quantity of material(s) emitted each such day. This report shall be submitted to the Hamilton County Department of Environmental Services within 45 days after the exceedance occurs.
2. The permittee shall submit quarterly deviation reports which identify any exceedance of the OC emission limitation set forth in term A.2.c. If no deviations occurred during the reporting period, the permittee shall state so in the report.

The reports shall be submitted to the Director (the Hamilton County Department of Environmental Services) by January 31, April 30, July 31 and October 31 of each year and shall cover the previous three calendar months (October through December, January through March,

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April through June and July through September, respectively) .

3. The permittee shall submit quarterly deviation reports which identify any exceedance of the HAP emission limitations set forth in term A.2.d. If no deviations occurred during the reporting period, the permittee shall state so in the report.

The reports shall be submitted to the Director (the Hamilton County Department of Environmental Services) by January 31, April 30, July 31 and October 31 of each year and shall cover the previous three calendar months (October through December, January through March, April through June and July through September, respectively) .

4. The permittee shall submit quarterly deviation (excursion) reports to the Hamilton County Department of Environmental Services which identify all exceedances of the rolling, 12-month colorant usage limitation in term B.1. If no deviations occurred during the reporting period, the permittee shall state so in the report.

The reports shall be submitted to the Director (the Hamilton County Department of Environmental Services) by January 31, April 30, July 31 and October 31 of each year and shall cover the previous three calendar months (October through December, January through March, April through June and July through September, respectively) .

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:
1.24 lbs/hr OC

Applicable Compliance Method:

Compliance with the OC emission rate from the aqueous-based colorant production shall be determined by the following equation:

$$E = A \times 0.0005 \text{ tons/lb} \times F$$

E is the OC emission rate in tons

A is the maximum hourly aqueous-based colorant production in pounds

F is the emissions factor provided by the facility for the aqueous-based colorant (1.11 lbs

OC/ton production).

- b. Emission Limitation:
14.0 TPY OC for emissions units P010 through P017 based upon a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements as specified in Section C.2.

The OC emission rate from the aqueous-based colorant production shall be determined by the following equation:

$$E = A \times 0.0005 \text{ tons/lb} \times F \times 0.0005 \text{ tons/lb}$$

E is the OC emission rate in tons

A is the monthly or annual aqueous-based colorant production in pounds

F is the emissions factor provided by the facility for the aqueous-based colorant (1.11 lbs OC/ton production).

- c. Emission Limitation:
50,000,000 pounds/year colorant, based upon a rolling, 12-month summation

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements as specified in Section C.2.

- d. Emission Limitation:
9.9 TPY for any single HAP and 24.9 TPY for combined HAPs

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Applicable Compliance Method:

Compliance with the HAP emission limitations will be determined by the record keeping requirements specified in Section C.3.

F. Miscellaneous Requirements

- 1 The terms and conditions in this permit to install supersede Permit to Install 14-04380, for emissions units P010 through P017, as issued on September 24, 1997 and modified on July 22, 1998.
2. The following terms and conditions of this permit are federally enforceable: A, B, C.1 - C.3 , D and E.

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PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operations(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 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>
P012 - East Toning Mixer and Tanks Aqueous Based Production	OAC rule 3745-31-05(A)(3)	1.24 lbs/hr OC
	OAC rule 3745-31-05(C)	See Section B.3.
	OAC rule 3745-21-07(G)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C).
		See Sections A.2.c., A.2.d., and B.1.
		Exempt, See Section B.2.

2. Additional Terms and Conditions

- 2.a Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the usage and emission limitations.
- 2.b The hourly emission limitation is based upon the emissions unit's PTE. Therefore, no hourly records are required to demonstrate compliance with this limit.
- 2.c The organic compound (OC) emissions from the aqueous-based colorant production shall not exceed 14.0 tons per year for emissions units, P010 through P017 combined, based upon a rolling, 12-month summation.
- 2.d The actual emissions of Hazardous Air Pollutants (HAPs), as identified in Section 112(b)

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of Title III of the Clean Air Act from emissions units P007 - P017 shall not exceed 9.9 TPY for any single HAP and 24.9 TPY for any combination of HAPs. Compliance with the above limitations shall be based on a rolling, 12-month summation.

B. Operational Restrictions

1. The maximum annual production rate for aqueous-based colorants in emissions units P010 through P017 shall not exceed 50,000,000 pounds of colorant per year, based on a rolling 12-month summation of the production rates.

The permittee has existing records to demonstrate compliance with this limitation upon permit issuance.

2. The use of photochemically reactive materials as defined in OAC rule 3745-21-01(C)(5) is prohibited.
3. The permittee shall use fitted covers on this emissions unit while in operation or holding any material containing organic compounds.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month:
 - a. The company identification of each colorant employed in this emissions unit.
 - b. A record for each colorant employed, indicating whether or not the colorant is photochemically reactive as identified in OAC rule 3745-21-01(C)(5).
2. The permittee shall collect and record the following information each month for emissions units P010 through P017:
 - a. The name and identification number of each colorant employed.
 - b. The number of pounds of each colorant employed.
 - c. The total organic compound emission rate for all colorants employed, in pounds or tons.
 - d. The updated rolling, 12-month summation of the total colorant usage, in pounds. This shall

include the information for the current month and the preceding eleven months.

- e. The rolling, 12-month summation of the OC emissions, in tons.
3. The permittee shall collect and record the following information each month for emissions units P007 - P017:
- a. The name and identification number of each colorant employed;
 - b. The individual Hazardous Air Pollutant (HAP) content for each HAP of each colorant in pounds of individual HAP per pound of colorant, as applied;
 - c. The total combined HAP content of each colorant in pounds of combined HAPs per pound of colorant, as applied [sum all the individual HAP contents from (b)];
 - d. The number of pounds of each colorant 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 for each HAP from all colorants produced and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times the emissions factor in E.1.a divided by 2000 lbs/ton for each colorant plus the sum of (f) times (h) for each cleanup material];
 - j. The total combined HAP emissions from all colorants produced and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times the emissions factor in E.1.a divided by 2000 lbs/ton for each colorant plus the sum of (g) times (h) for each cleanup material];
 - k. The updated rolling, 12-month summation of the individual HAP emissions, in pounds or tons. This shall include the information for the current month and the preceding eleven calendar months; and

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1. The updated rolling, 12-month summation of the combined HAP emissions, in pounds or tons. This shall include the information for the current month and the preceding eleven calendar months.

* A listing of the HAPs can be found in Section 112(b) of the Clean Air Act or can be obtained by contacting your Hamilton County Department of Environmental Services contact. This information does not have to be kept on a individual emissions unit basis.

4. The permit to install for emissions units P010 through P017 was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Ground-Level Concentration (MAGLC).

The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: Ethylene Glycol

TLV (ug/m³): 100,000

Maximum Hourly Emission Rate (lbs/hr): 6.8

Predicted 1-Hour Maximum Ground-Level

Concentration (ug/m³): 842

MAGLC (ug/m³): 2381

Physical changes to or in the method of operation of the emissions unit after it's installation or modification could affect the parameters used to determine whether or not the "Air Toxics Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in the "Air Toxic Policy" include the following:

- a. Changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;

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- b. Changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
- c. Physical changes to the emissions unit or its exhaust parameters (e.g., increased/decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied with the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is(are) defined as a modification under other provisions of the modification definition [other than (VV)(1)(a)(ii)], then the permittee shall obtain a final permit to install prior to the change.

The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will satisfy the Air Toxic Policy:"

- a. A description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. Documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. When the computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services in writing identifying each day during which any photochemically reactive material [as defined in OAC rule 3745-21-01(C)(5)] was employed in this emissions unit. This report shall identify the cause for the use of photochemically reactive material(s) and the estimated total quantity of material(s) emitted each such day. This report shall be submitted to the Hamilton County Department of Environmental Services within 45 days after the exceedance occurs.
2. The permittee shall submit quarterly deviation reports which identify any exceedance of the OC emission limitation set forth in term A.2.c. If no deviations occurred during the reporting period, the permittee shall state so in the report.

The reports shall be submitted to the Director (the Hamilton County Department of Environmental Services) by January 31, April 30, July 31 and October 31 of each year and shall cover the previous three calendar months (October through December, January through March,

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April through June and July through September, respectively) .

3. The permittee shall submit quarterly deviation reports which identify any exceedance of the HAP emission limitations set forth in term A.2.d. If no deviations occurred during the reporting period, the permittee shall state so in the report.

The reports shall be submitted to the Director (the Hamilton County Department of Environmental Services) by January 31, April 30, July 31 and October 31 of each year and shall cover the previous three calendar months (October through December, January through March, April through June and July through September, respectively) .

4. The permittee shall submit quarterly deviation (excursion) reports to the Hamilton County Department of Environmental Services which identify all exceedances of the rolling, 12-month colorant usage limitation in term B.1. If no deviations occurred during the reporting period, the permittee shall state so in the report.

The reports shall be submitted to the Director (the Hamilton County Department of Environmental Services) by January 31, April 30, July 31 and October 31 of each year and shall cover the previous three calendar months (October through December, January through March, April through June and July through September, respectively) .

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:
1.24 lbs/hr OC

Applicable Compliance Method:

Compliance with the OC emission rate from the aqueous-based colorant production shall be determined by the following equation:

$$E = A \times 0.0005 \text{ tons/lb} \times F$$

E is the OC emission rate in tons

A is the maximum hourly aqueous-based colorant production in pounds

F is the emissions factor provided by the facility for the aqueous-based colorant (1.11 lbs

OC/ton production).

- b. Emission Limitation:
14.0 TPY OC for emissions units P010 through P017 based upon a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements as specified in Section C.2.

The OC emission rate from the aqueous-based colorant production shall be determined by the following equation:

$$E = A \times 0.0005 \text{ tons/lb} \times F \times 0.0005 \text{ tons/lb}$$

E is the OC emission rate in tons

A is the monthly or annual aqueous-based colorant production in pounds

F is the emissions factor provided by the facility for the aqueous-based colorant (1.11 lbs OC/ton production).

- c. Emission Limitation:
50,000,000 pounds/year colorant, based upon a rolling, 12-month summation

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements as specified in Section C.2.

- d. Emission Limitation:
9.9 TPY for any single HAP and 24.9 TPY for combined HAPs

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Applicable Compliance Method:

Compliance with the HAP emission limitations will be determined by the record keeping requirements specified in Section C.3.

F. Miscellaneous Requirements

1. The terms and conditions in this permit to install supersede Permit to Install 14-04380, for emissions units P010 through P017, as issued on September 24, 1997 and modified on July 22, 1998.
2. The following terms and conditions of this permit are federally enforceable: A, B, C.1 - C.3 , D and E.

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PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 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>
P013 - MMT Mixer A and Tanks Aqueous Based Production	OAC rule 3745-31-05(A)(3)	1.3 lbs/hr OC See Section B.3. The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C).
	OAC rule 3745-31-05(C)	See Sections A.2.c., A.2.d., and B.1.
	OAC rule 3745-21-07(G)	Exempt, See Section B.2.

2. Additional Terms and Conditions

- 2.a Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the usage and emission limitations.
- 2.b The hourly emission limitation is based upon the emissions unit's PTE. Therefore, no hourly records are required to demonstrate compliance with this limit.
- 2.c The organic compound (OC) emissions from the aqueous-based colorant production shall not exceed 14.0 tons per year for emissions units, P010 through P017 combined, based upon a rolling, 12-month summation.
- 2.d The actual emissions of Hazardous Air Pollutants (HAPs), as identified in Section 112(b)

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of Title III of the Clean Air Act from emissions units P007 - P017 shall not exceed 9.9 TPY for any single HAP and 24.9 TPY for any combination of HAPs. Compliance with the above limitations shall be based on a rolling, 12-month summation.

B. Operational Restrictions

1. The maximum annual production rate for aqueous-based colorants in emissions units P010 through P017 shall not exceed 50,000,000 pounds of colorant per year, based on a rolling 12-month summation of the production rates.

The permittee has existing records to demonstrate compliance with this limitation upon permit issuance.

2. The use of photochemically reactive materials as defined in OAC rule 3745-21-01(C)(5) is prohibited.
3. The permittee shall use fitted covers on this emissions unit while in operation or holding any material containing organic compounds.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month:
 - a. The company identification of each colorant employed in this emissions unit.
 - b. A record for each colorant employed, indicating whether or not the colorant is photochemically reactive as identified in OAC rule 3745-21-01(C)(5).
2. The permittee shall collect and record the following information each month for emissions units P010 through P017:
 - a. The name and identification number of each colorant employed.
 - b. The number of pounds of each colorant employed.
 - c. The total organic compound emission rate for all colorants employed, in pounds or tons.
 - d. The updated rolling, 12-month summation of the total colorant usage, in pounds. This shall include the information for the current month and the preceding eleven months.

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- e. The rolling, 12-month summation of the OC emissions, in tons.
3. The permittee shall collect and record the following information each month for emissions units P007 - P017:
- a. The name and identification number of each colorant employed;
 - b. The individual Hazardous Air Pollutant (HAP) content for each HAP of each colorant in pounds of individual HAP per pound of colorant, as applied;
 - c. The total combined HAP content of each colorant in pounds of combined HAPs per pound of colorant, as applied [sum all the individual HAP contents from (b)];
 - d. The number of pounds of each colorant 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 for each HAP from all colorants produced and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times the emissions factor in E.1.a divided by 2000 lbs/ton for each colorant plus the sum of (f) times (h) for each cleanup material];
 - j. The total combined HAP emissions from all colorants produced and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times the emissions factor in E.1.a divided by 2000 lbs/ton for each colorant plus the sum of (g) times (h) for each cleanup material];
 - k. The updated rolling, 12-month summation of the individual HAP emissions, in pounds or tons. This shall include the information for the current month and the preceding eleven calendar months; and

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1. The updated rolling, 12-month summation of the combined HAP emissions, in pounds or tons. This shall include the information for the current month and the preceding eleven calendar months.

* A listing of the HAPs can be found in Section 112(b) of the Clean Air Act or can be obtained by contacting your Hamilton County Department of Environmental Services contact. This information does not have to be kept on a individual emissions unit basis.

4. The permit to install for emissions units P010 through P017 was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Ground-Level Concentration (MAGLC).

The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: Ethylene Glycol
TLV (ug/m³): 100,000
Maximum Hourly Emission Rate (lbs/hr): 6.8
Predicted 1-Hour Maximum Ground-Level
Concentration (ug/m³): 842
MAGLC (ug/m³): 2381

Physical changes to or in the method of operation of the emissions unit after it's installation or modification could affect the parameters used to determine whether or not the "Air Toxics Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in the "Air Toxic Policy" include the following:

- a. Changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
- b. Changes in the composition of the materials, or use of new materials, that would result in

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an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and

- c. Physical changes to the emissions unit or its exhaust parameters (e.g., increased/decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied with the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is(are) defined as a modification under other provisions of the modification definition [other than (VV)(1)(a)(ii)], then the permittee shall obtain a final permit to install prior to the change.

The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will satisfy the Air Toxic Policy:"

- a. A description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. Documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. When the computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services in writing identifying each day during which any photochemically reactive material [as defined in OAC rule 3745-21-01(C)(5)] was employed in this emissions unit. This report shall identify the cause for the use of photochemically reactive material(s) and the estimated total quantity of material(s) emitted each such day. This report shall be submitted to the Hamilton County Department of Environmental Services within 45 days after the exceedance occurs.
2. The permittee shall submit quarterly deviation reports which identify any exceedance of the OC emission limitation set forth in term A.2.c. If no deviations occurred during the reporting period, the permittee shall state so in the report.

The reports shall be submitted to the Director (the Hamilton County Department of Environmental Services) by January 31, April 30, July 31 and October 31 of each year and shall cover the previous three calendar months (October through December, January through March,

April through June and July through September, respectively) .

3. The permittee shall submit quarterly deviation reports which identify any exceedance of the HAP emission limitations set forth in term A.2.d. If no deviations occurred during the reporting period, the permittee shall state so in the report.

The reports shall be submitted to the Director (the Hamilton County Department of Environmental Services) by January 31, April 30, July 31 and October 31 of each year and shall cover the previous three calendar months (October through December, January through March, April through June and July through September, respectively) .

4. The permittee shall submit quarterly deviation (excursion) reports to the Hamilton County Department of Environmental Services which identify all exceedances of the rolling, 12-month colorant usage limitation in term B.1. If no deviations occurred during the reporting period, the permittee shall state so in the report.

The reports shall be submitted to the Director (the Hamilton County Department of Environmental Services) by January 31, April 30, July 31 and October 31 of each year and shall cover the previous three calendar months (October through December, January through March, April through June and July through September, respectively) .

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:
1.3 lbs/hr OC

Applicable Compliance Method:

Compliance with the OC emission rate from the aqueous-based colorant production shall be determined by the following equation:

$$E = A \times 0.0005 \text{ tons/lb} \times F$$

E is the OC emission rate in tons

A is the maximum hourly aqueous-based colorant production in pounds

F is the emissions factor provided by the facility for the aqueous-based colorant (1.11 lbs OC/ton production).

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- b. Emission Limitation:
14.0 TPY OC for emissions units P010 through P017 based upon a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements as specified in Section C.2.

The OC emission rate from the aqueous-based colorant production shall be determined by the following equation:

$$E = A \times 0.0005 \text{ tons/lb} \times F \times 0.0005 \text{ tons/lb}$$

E is the OC emission rate in tons

A is the monthly or annual aqueous-based colorant production in pounds

F is the emissions factor provided by the facility for the aqueous-based colorant (1.11 lbs OC/ton production).

- c. Emission Limitation:
50,000,000 pounds/year colorant, based upon a rolling, 12-month summation

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements as specified in Section C.2.

- d. Emission Limitation:
9.9 TPY for any single HAP and 24.9 TPY for combined HAPs

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Applicable Compliance Method:

Compliance with the HAP emission limitations will be determined by the record keeping requirements specified in Section C.3.

F. Miscellaneous Requirements

- 1 The terms and conditions in this permit to install supersede Permit to Install 14-04380, for emissions units P010 through P017, as issued on September 24, 1997 and modified on July 22, 1998.
2. The following terms and conditions of this permit are federally enforceable: A, B, C.1 - C.3 , D and E.

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PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 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>
P014 - MMT Mixer B and Tanks Aqueous Based Production	OAC rule 3745-31-05(A)(3)	1.3 lbs/hr OC See Section B.3 The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C).
	OAC rule 3745-31-05(C)	See Sections A.2.c., A.2.d., and B.1.
	OAC rule 3745-21-07(G)	Exempt, See Section B.2.

2. Additional Terms and Conditions

- 2.a Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the usage and emission limitations.
- 2.b The hourly emission limitation is based upon the emissions unit's PTE. Therefore, no hourly records are required to demonstrate compliance with this limit.
- 2.c The organic compound (OC) emissions from the aqueous-based colorant production shall not exceed 14.0 tons per year for emissions units, P010 through P017 combined, based upon a rolling, 12-month summation.
- 2.d The actual emissions of Hazardous Air Pollutants (HAPs), as identified in Section 112(b)

Emissions Unit ID: **P014**

of Title III of the Clean Air Act from emissions units P007 - P017 shall not exceed 9.9 TPY for any single HAP and 24.9 TPY for any combination of HAPs. Compliance with the above limitations shall be based on a rolling, 12-month summation.

B. Operational Restrictions

1. The maximum annual production rate for aqueous-based colorants in emissions units P010 through P017 shall not exceed 50,000,000 pounds of colorant per year, based on a rolling 12-month summation of the production rates.

The permittee has existing records to demonstrate compliance with this limitation upon permit issuance.

2. The use of photochemically reactive materials as defined in OAC rule 3745-21-01(C)(5) is prohibited.
3. The permittee shall use fitted covers on this emissions unit while in operation or holding any material containing organic compounds.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month:
 - a. The company identification of each colorant employed in this emissions unit.
 - b. A record for each colorant employed, indicating whether or not the colorant is photochemically reactive as identified in OAC rule 3745-21-01(C)(5).
2. The permittee shall collect and record the following information each month for emissions units P010 through P017:
 - a. The name and identification number of each colorant employed.
 - b. The number of pounds of each colorant employed.
 - c. The total organic compound emission rate for all colorants employed, in pounds or tons.
 - d. The updated rolling, 12-month summation of the total colorant usage, in pounds. This shall include the information for the current month and the preceding eleven months.

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- e. The rolling, 12-month summation of the OC emissions, in tons.
3. The permittee shall collect and record the following information each month for emissions units P007 - P017:
 - a. The name and identification number of each colorant employed;
 - b. The individual Hazardous Air Pollutant (HAP) content for each HAP of each colorant in pounds of individual HAP per pound of colorant, as applied;
 - c. The total combined HAP content of each colorant in pounds of combined HAPs per pound of colorant, as applied [sum all the individual HAP contents from (b)];
 - d. The number of pounds of each colorant 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 for each HAP from all colorants produced and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times the emissions factor in E.1.a divided by 2000 lbs/ton for each colorant plus the sum of (f) times (h) for each cleanup material];
 - j. The total combined HAP emissions from all colorants produced and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times the emissions factor in E.1.a divided by 2000 lbs/ton for each colorant plus the sum of (g) times (h) for each cleanup material];
 - k. The updated rolling, 12-month summation of the individual HAP emissions, in pounds or tons. This shall include the information for the current month and the preceding eleven calendar months; and

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1. The updated rolling, 12-month summation of the combined HAP emissions, in pounds or tons. This shall include the information for the current month and the preceding eleven calendar months.

* A listing of the HAPs can be found in Section 112(b) of the Clean Air Act or can be obtained by contacting your Hamilton County Department of Environmental Services contact. This information does not have to be kept on a individual emissions unit basis.

4. The permit to install for emissions units P010 through P017 was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Ground-Level Concentration (MAGLC).

The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: Ethylene Glycol
TLV (ug/m³): 100,000
Maximum Hourly Emission Rate (lbs/hr): 6.8
Predicted 1-Hour Maximum Ground-Level
Concentration (ug/m³): 842
MAGLC (ug/m³): 2381

Physical changes to or in the method of operation of the emissions unit after it's installation or modification could affect the parameters used to determine whether or not the "Air Toxics Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in the "Air Toxic Policy" include the following:

- a. Changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
- b. Changes in the composition of the materials, or use of new materials, that would result in

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an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and

- c. Physical changes to the emissions unit or its exhaust parameters (e.g., increased/decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied with the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is(are) defined as a modification under other provisions of the modification definition [other than (VV)(1)(a)(ii)], then the permittee shall obtain a final permit to install prior to the change.

The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will satisfy the Air Toxic Policy:"

- a. A description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. Documentation of it's evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. When the computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services in writing identifying each day during which any photochemically reactive material [as defined in OAC rule 3745-21-01(C)(5)] was employed in this emissions unit. This report shall identify the cause for the use of photochemically reactive material(s) and the estimated total quantity of material(s) emitted each such day. This report shall be submitted to the Hamilton County Department of Environmental Services within 45 days after the exceedance occurs.
2. The permittee shall submit quarterly deviation reports which identify any exceedance of the OC emission limitation set forth in term A.2.c. If no deviations occurred during the reporting period, the permittee shall state so in the report.

The reports shall be submitted to the Director (the Hamilton County Department of Environmental Services) by January 31, April 30, July 31 and October 31 of each year and shall cover the previous three calendar months (October through December, January through March,

April through June and July through September, respectively) .

3. The permittee shall submit quarterly deviation reports which identify any exceedance of the HAP emission limitations set forth in term A.2.d. If no deviations occurred during the reporting period, the permittee shall state so in the report.

The reports shall be submitted to the Director (the Hamilton County Department of Environmental Services) by January 31, April 30, July 31 and October 31 of each year and shall cover the previous three calendar months (October through December, January through March, April through June and July through September, respectively) .

4. The permittee shall submit quarterly deviation (excursion) reports to the Hamilton County Department of Environmental Services which identify all exceedances of the rolling, 12-month colorant usage limitation in term B.1. If no deviations occurred during the reporting period, the permittee shall state so in the report.

The reports shall be submitted to the Director (the Hamilton County Department of Environmental Services) by January 31, April 30, July 31 and October 31 of each year and shall cover the previous three calendar months (October through December, January through March, April through June and July through September, respectively) .

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:
1.3 lbs/hr OC

Applicable Compliance Method:

Compliance with the OC emission rate from the aqueous-based colorant production shall be determined by the following equation:

$$E = A \times 0.0005 \text{ tons/lb} \times F$$

E is the OC emission rate in tons

A is the maximum hourly aqueous-based colorant production in pounds

F is the emissions factor provided by the facility for the aqueous-based colorant (1.11 lbs

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OC/ton production).

- b. Emission Limitation:
14.0 TPY OC for emissions units P010 through P017 based upon a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements as specified in Section C.2.

The OC emission rate from the aqueous-based colorant production shall be determined by the following equation:

$$E = A \times 0.0005 \text{ tons/lb} \times F \times 0.0005 \text{ tons/lb}$$

E is the OC emission rate in tons

A is the monthly or annual aqueous-based colorant production in pounds

F is the emissions factor provided by the facility for the aqueous-based colorant (1.11 lbs OC/ton production).

- c. Emission Limitation:
50,000,000 pounds/year colorant, based upon a rolling, 12-month summation

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements as specified in Section C.2.

- d. Emission Limitation:
9.9 TPY for any single HAP and 24.9 TPY for combined HAPs

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Facility ID: 1431260080

Emissions Unit ID: **P014**

Applicable Compliance Method:
Compliance with the HAP emission limitations will be determined by the record keeping requirements specified in Section C.3.

F. Miscellaneous Requirements

1. The terms and conditions in this permit to install supersede Permit to Install 14-04380, for emissions units P010 through P017, as issued on September 24, 1997 and modified on July 22, 1998.
2. The following terms and conditions of this permit are federally enforceable: A, B, C.1 - C.3 , D and E.

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PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 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>
P015 - MMT Mixer C and Tanks Aqueous Based Production	OAC rule 3745-31-05(A)(3)	1.3 lbs/hr OC See section B.3 The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C).
	OAC rule 3745-31-05(C)	See Sections A.2.c., A.2.d., and B.1.
	OAC rule 3745-21-07(G)	Exempt, See Section B.2.

2. Additional Terms and Conditions

- 2.a Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the usage and emission limitations.
- 2.b The hourly emission limitation is based upon the emissions unit's PTE. Therefore, no hourly records are required to demonstrate compliance with this limit.
- 2.c The organic compound (OC) emissions from the aqueous-based colorant production shall not exceed 14.0 tons per year for emissions units, P010 through P017 combined, based upon a rolling, 12-month summation.
- 2.d The actual emissions of Hazardous Air Pollutants (HAPs), as identified in Section 112(b)

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of Title III of the Clean Air Act from emissions units P007 - P017 shall not exceed 9.9 TPY for any single HAP and 24.9 TPY for any combination of HAPs. Compliance with the above limitations shall be based on a rolling, 12-month summation.

B. Operational Restrictions

1. The maximum annual production rate for aqueous-based colorants in emissions units P010 through P017 shall not exceed 50,000,000 pounds of colorant per year, based on a rolling 12-month summation of the production rates.

The permittee has existing records to demonstrate compliance with this limitation upon permit issuance.

2. The use of photochemically reactive materials as defined in OAC rule 3745-21-01(C)(5) is prohibited.
3. The permittee shall use fitted covers on this emissions unit while in operation or holding any material containing organic compounds.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month:
 - a. The company identification of each colorant employed in this emissions unit.
 - b. A record for each colorant employed, indicating whether or not the colorant is photochemically reactive as identified in OAC rule 3745-21-01(C)(5).
2. The permittee shall collect and record the following information each month for emissions units P010 through P017:
 - a. The name and identification number of each colorant employed.
 - b. The number of pounds of each colorant employed.
 - c. The total organic compound emission rate for all colorants employed, in pounds or tons.
 - d. The updated rolling, 12-month summation of the total colorant usage, in pounds. This shall

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include the information for the current month and the preceding eleven months.

- e. The rolling, 12-month summation of the OC emissions, in tons.
3. The permittee shall collect and record the following information each month for emissions units P007 - P017:
- a. The name and identification number of each colorant employed;
 - b. The individual Hazardous Air Pollutant (HAP) content for each HAP of each colorant in pounds of individual HAP per pound of colorant, as applied;
 - c. The total combined HAP content of each colorant in pounds of combined HAPs per pound of colorant, as applied [sum all the individual HAP contents from (b)];
 - d. The number of pounds of each colorant 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 for each HAP from all colorants produced and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times the emissions factor in E.1.a divided by 2000 lbs/ton for each colorant plus the sum of (f) times (h) for each cleanup material];
 - j. The total combined HAP emissions from all colorants produced and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times the emissions factor in E.1.a divided by 2000 lbs/ton for each colorant plus the sum of (g) times (h) for each cleanup material];
 - k. The updated rolling, 12-month summation of the individual HAP emissions, in pounds or tons. This shall include the information for the current month and the preceding eleven calendar months; and

1. The updated rolling, 12-month summation of the combined HAP emissions, in pounds or tons. This shall include the information for the current month and the preceding eleven calendar months.

* A listing of the HAPs can be found in Section 112(b) of the Clean Air Act or can be obtained by contacting your Hamilton County Department of Environmental Services contact. This information does not have to be kept on a individual emissions unit basis.

4. The permit to install for emissions units P010 through P017 was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Ground-Level Concentration (MAGLC).

The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: Ethylene Glycol
TLV (ug/m³): 100,000
Maximum Hourly Emission Rate (lbs/hr): 6.8
Predicted 1-Hour Maximum Ground-Level
Concentration (ug/m³): 842
MAGLC (ug/m³): 2381

Physical changes to or in the method of operation of the emissions unit after it's installation or modification could affect the parameters used to determine whether or not the "Air Toxics Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in the "Air Toxic Policy" include the following:

- a. Changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;

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- b. Changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
- c. Physical changes to the emissions unit or its exhaust parameters (e.g., increased/decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied with the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is(are) defined as a modification under other provisions of the modification definition [other than (VV)(1)(a)(ii)], then the permittee shall obtain a final permit to install prior to the change.

The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will satisfy the Air Toxic Policy:"

- a. A description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. Documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. When the computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services in writing identifying each day during which any photochemically reactive material [as defined in OAC rule 3745-21-01(C)(5)] was employed in this emissions unit. This report shall identify the cause for the use of photochemically reactive material(s) and the estimated total quantity of material(s) emitted each such day. This report shall be submitted to the Hamilton County Department of Environmental Services within 45 days after the exceedance occurs.
2. The permittee shall submit quarterly deviation reports which identify any exceedance of the OC emission limitation set forth in term A.2.c. If no deviations occurred during the reporting period, the permittee shall state so in the report.

The reports shall be submitted to the Director (the Hamilton County Department of Environmental Services) by January 31, April 30, July 31 and October 31 of each year and shall cover the previous three calendar months (October through December, January through March,

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April through June and July through September, respectively) .

3. The permittee shall submit quarterly deviation reports which identify any exceedance of the HAP emission limitations set forth in term A.2.d. If no deviations occurred during the reporting period, the permittee shall state so in the report.

The reports shall be submitted to the Director (the Hamilton County Department of Environmental Services) by January 31, April 30, July 31 and October 31 of each year and shall cover the previous three calendar months (October through December, January through March, April through June and July through September, respectively) .

4. The permittee shall submit quarterly deviation (excursion) reports to the Hamilton County Department of Environmental Services which identify all exceedances of the rolling, 12-month colorant usage limitation in term B.1. If no deviations occurred during the reporting period, the permittee shall state so in the report.

The reports shall be submitted to the Director (the Hamilton County Department of Environmental Services) by January 31, April 30, July 31 and October 31 of each year and shall cover the previous three calendar months (October through December, January through March, April through June and July through September, respectively) .

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:
1.3 lbs/hr OC

Applicable Compliance Method:

Compliance with the OC emission rate from the aqueous-based colorant production shall be determined by the following equation:

$$E = A \times 0.0005 \text{ tons/lb} \times F$$

E is the OC emission rate in tons

A is the maximum hourly aqueous-based colorant production in pounds

F is the emissions factor provided by the facility for the aqueous-based colorant (1.11 lbs

OC/ton production).

- b. Emission Limitation:
14.0 TPY OC for emissions units P010 through P017 based upon a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements as specified in Section C.2.

The OC emission rate from the aqueous-based colorant production shall be determined by the following equation:

$$E = A \times 0.0005 \text{ tons/lb} \times F \times 0.0005 \text{ tons/lb}$$

E is the OC emission rate in tons

A is the monthly or annual aqueous-based colorant production in pounds

F is the emissions factor provided by the facility for the aqueous-based colorant (1.11 lbs OC/ton production).

- c. Emission Limitation:
50,000,000 pounds/year colorant, based upon a rolling, 12-month summation

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements as specified in Section C.2.

- d. Emission Limitation:
9.9 TPY for any single HAP and 24.9 TPY for combined HAPs

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Emissions Unit ID: **P015**

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Applicable Compliance Method:

Compliance with the HAP emission limitations will be determined by the record keeping requirements specified in Section C.3.

F. Miscellaneous Requirements

- 1 The terms and conditions in this permit to install supersede Permit to Install 14-04380, for emissions units P010 through P017, as issued on September 24, 1997 and modified on July 22, 1998.
2. The following terms and conditions of this permit are federally enforceable: A, B, C.1 - C.3 , D and E.

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PTI A

Emissions Unit ID: P016

Issued: To be entered upon final issuance

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operations(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 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>
P016 - West Stir-in Mixer and Tank Aqueous Based Production	OAC rule 3745-31-05(A)(3)	0.14 lb/hr OC
	OAC rule 3745-31-05(C)	See Section B.3.
	OAC rule 3745-21-07(G)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C).
		See Sections A.2.c., A.2.d., and B.1.
		Exempt, See Section B.3.

2. Additional Terms and Conditions

- 2.a Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the usage and emission limitations.
- 2.b The hourly emission limitation is based upon the emissions unit's PTE. Therefore, no hourly records are required to demonstrate compliance with this limit.
- 2.c The organic compound (OC) emissions from the aqueous-based colorant production shall not exceed 14.0 tons per year for emissions units, P010 through P017 combined, based upon a rolling, 12-month summation.
- 2.d The actual emissions of Hazardous Air Pollutants (HAPs), as identified in Section 112(b)

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of Title III of the Clean Air Act from emissions units P007 - P017 shall not exceed 9.9 TPY for any single HAP and 24.9 TPY for any combination of HAPs. Compliance with the above limitations shall be based on a rolling, 12-month summation.

B. Operational Restrictions

1. The maximum annual production rate for aqueous-based colorants in emissions units P010 through P017 shall not exceed 50,000,000 pounds of colorant per year, based on a rolling 12-month summation of the production rates.

The permittee has existing records to demonstrate compliance with this limitation upon permit issuance.

2. The use of photochemically reactive materials as defined in OAC rule 3745-21-01(C)(5) is prohibited.
3. The permittee shall use fitted covers on this emissions unit while in operation or holding any material containing organic compounds.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month:
 - a. The company identification of each colorant employed in this emissions unit.
 - b. A record for each colorant employed, indicating whether or not the colorant is photochemically reactive as identified in OAC rule 3745-21-01(C)(5).
2. The permittee shall collect and record the following information each month for emissions units P010 through P017:
 - a. The name and identification number of each colorant employed.
 - b. The number of pounds of each colorant employed.
 - c. The total organic compound emission rate for all colorants employed, in pounds or tons.
 - d. The updated rolling, 12-month summation of the total colorant usage, in pounds. This shall

include the information for the current month and the preceding eleven months.

- e. The rolling, 12-month summation of the OC emissions, in tons.
3. The permittee shall collect and record the following information each month for emissions units P007 - P017:
- a. The name and identification number of each colorant employed;
 - b. The individual Hazardous Air Pollutant (HAP) content for each HAP of each colorant in pounds of individual HAP per pound of colorant, as applied;
 - c. The total combined HAP content of each colorant in pounds of combined HAPs per pound of colorant, as applied [sum all the individual HAP contents from (b)];
 - d. The number of pounds of each colorant 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 for each HAP from all colorants produced and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times the emissions factor in E.1.a divided by 2000 lbs/ton for each colorant plus the sum of (f) times (h) for each cleanup material];
 - j. The total combined HAP emissions from all colorants produced and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times the emissions factor in E.1.a divided by 2000 lbs/ton for each colorant plus the sum of (g) times (h) for each cleanup material];
 - k. The updated rolling, 12-month summation of the individual HAP emissions, in pounds or tons. This shall include the information for the current month and the preceding eleven calendar months; and

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1. The updated rolling, 12-month summation of the combined HAP emissions, in pounds or tons. This shall include the information for the current month and the preceding eleven calendar months.

* A listing of the HAPs can be found in Section 112(b) of the Clean Air Act or can be obtained by contacting your Hamilton County Department of Environmental Services contact. This information does not have to be kept on a individual emissions unit basis.

4. The permit to install for emissions units P010 through P017 was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Ground-Level Concentration (MAGLC).

The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: Ethylene Glycol

TLV (ug/m³): 100,000

Maximum Hourly Emission Rate (lbs/hr): 6.8

Predicted 1-Hour Maximum Ground-Level

Concentration (ug/m³): 842

MAGLC (ug/m³): 2381

Physical changes to or in the method of operation of the emissions unit after it's installation or modification could affect the parameters used to determine whether or not the "Air Toxics Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in the "Air Toxic Policy" include the following:

- a. Changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;

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- b. Changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
- c. Physical changes to the emissions unit or its exhaust parameters (e.g., increased/decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied with the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is(are) defined as a modification under other provisions of the modification definition [other than (VV)(1)(a)(ii)], then the permittee shall obtain a final permit to install prior to the change.

The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will satisfy the Air Toxic Policy:"

- a. A description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. Documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. When the computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services in writing identifying each day during which any photochemically reactive material [as defined in OAC rule 3745-21-01(C)(5)] was employed in this emissions unit. This report shall identify the cause for the use of photochemically reactive material(s) and the estimated total quantity of material(s) emitted each such day. This report shall be submitted to the Hamilton County Department of Environmental Services within 45 days after the exceedance occurs.
2. The permittee shall submit quarterly deviation reports which identify any exceedance of the OC emission limitation set forth in term A.2.c. If no deviations occurred during the reporting period, the permittee shall state so in the report.

The reports shall be submitted to the Director (the Hamilton County Department of Environmental Services) by January 31, April 30, July 31 and October 31 of each year and shall cover the previous three calendar months (October through December, January through March,

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April through June and July through September, respectively) .

3. The permittee shall submit quarterly deviation reports which identify any exceedance of the HAP emission limitations set forth in term A.2.d. If no deviations occurred during the reporting period, the permittee shall state so in the report.

The reports shall be submitted to the Director (the Hamilton County Department of Environmental Services) by January 31, April 30, July 31 and October 31 of each year and shall cover the previous three calendar months (October through December, January through March, April through June and July through September, respectively) .

4. The permittee shall submit quarterly deviation (excursion) reports to the Hamilton County Department of Environmental Services which identify all exceedances of the rolling, 12-month colorant usage limitation in term B.1. If no deviations occurred during the reporting period, the permittee shall state so in the report.

The reports shall be submitted to the Director (the Hamilton County Department of Environmental Services) by January 31, April 30, July 31 and October 31 of each year and shall cover the previous three calendar months (October through December, January through March, April through June and July through September, respectively) .

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:
0.14 lb/hr OC

Applicable Compliance Method:

Compliance with the OC emission rate from the aqueous-based colorant production shall be determined by the following equation:

$$E = A \times 0.0005 \text{ tons/lb} \times F$$

E is the OC emission rate in tons

A is the maximum hourly aqueous-based colorant production in pounds

F is the emissions factor provided by the facility for the aqueous-based colorant (1.11 lbs

OC/ton production).

- b. Emission Limitation:
14.0 TPY OC for emissions units P010 through P017 based upon a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements as specified in Section C.2.

The OC emission rate from the aqueous-based colorant production shall be determined by the following equation:

$$E = A \times 0.0005 \text{ tons/lb} \times F \times 0.0005 \text{ tons/lb}$$

E is the OC emission rate in tons

A is the monthly or annual aqueous-based colorant production in pounds

F is the emissions factor provided by the facility for the aqueous-based colorant (1.11 lbs OC/ton production).

- c. Emission Limitation:
50,000,000 pounds/year colorant, based upon a rolling, 12-month summation

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements as specified in Section C.2.

- d. Emission Limitation:
9.9 TPY for any single HAP and 24.9 TPY for combined HAPs

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Applicable Compliance Method:

Compliance with the HAP emission limitations will be determined by the record keeping requirements specified in Section C.3.

F. Miscellaneous Requirements

- 1 The terms and conditions in this permit to install supersede Permit to Install 14-04380, for emissions units P010 through P017, as issued on September 24, 1997 and modified on July 22, 1998.
2. The following terms and conditions of this permit are federally enforceable: A, B, C.1 - C.3 , D and E.

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PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 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>
P017 - East Stir-in Mixer and Tanks Aqueous Based Production	OAC rule 3745-31-05(A)(3)	0.14 lb/hr OC See Section B.3 The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C).
	OAC rule 3745-31-05(C)	See Sections A.2.c., A.2.d., and B.1.
	OAC rule 3745-21-07(G)	Exempt, See Section B.2.

2. Additional Terms and Conditions

- 2.a Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the usage and emission limitations.
- 2.b The hourly emission limitation is based upon the emissions unit's PTE. Therefore, no hourly records are required to demonstrate compliance with this limit.
- 2.c The organic compound (OC) emissions from the aqueous-based colorant production shall not exceed 14.0 tons per year for emissions units, P010 through P017 combined, based upon a rolling, 12-month summation.
- 2.d The actual emissions of Hazardous Air Pollutants (HAPs), as identified in Section 112(b)

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of Title III of the Clean Air Act from emissions units P007 - P017 shall not exceed 9.9 TPY for any single HAP and 24.9 TPY for any combination of HAPs. Compliance with the above limitations shall be based on a rolling, 12-month summation.

B. Operational Restrictions

1. The maximum annual production rate for aqueous-based colorants in emissions units P010 through P017 shall not exceed 50,000,000 pounds of colorant per year, based on a rolling 12-month summation of the production rates.

The permittee has existing records to demonstrate compliance with this limitation upon permit issuance.

2. The use of photochemically reactive materials as defined in OAC rule 3745-21-01(C)(5) is prohibited.
3. The permittee shall use fitted covers on this emissions unit while in operation or holding any material containing organic compounds.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month:
 - a. The company identification of each colorant employed in this emissions unit.
 - b. A record for each colorant employed, indicating whether or not the colorant is photochemically reactive as identified in OAC rule 3745-21-01(C)(5).
2. The permittee shall collect and record the following information each month for emissions units P010 through P017:
 - a. The name and identification number of each colorant employed.
 - b. The number of pounds of each colorant employed.
 - c. The total organic compound emission rate for all colorants employed, in pounds or tons.
 - d. The updated rolling, 12-month summation of the total colorant usage, in pounds. This shall include the information for the current month and the preceding eleven months.

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- e. The rolling, 12-month summation of the OC emissions, in tons.
3. The permittee shall collect and record the following information each month for emissions units P007 - P017:
 - a. The name and identification number of each colorant employed;
 - b. The individual Hazardous Air Pollutant (HAP) content for each HAP of each colorant in pounds of individual HAP per pound of colorant, as applied;
 - c. The total combined HAP content of each colorant in pounds of combined HAPs per pound of colorant, as applied [sum all the individual HAP contents from (b)];
 - d. The number of pounds of each colorant 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 for each HAP from all colorants produced and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times the emissions factor in E.1.a divided by 2000 lbs/ton for each colorant plus the sum of (f) times (h) for each cleanup material];
 - j. The total combined HAP emissions from all colorants produced and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times the emissions factor in E.1.a divided by 2000 lbs/ton for each colorant plus the sum of (g) times (h) for each cleanup material];
 - k. The updated rolling, 12-month summation of the individual HAP emissions, in pounds or tons. This shall include the information for the current month and the preceding eleven calendar months; and

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1. The updated rolling, 12-month summation of the combined HAP emissions, in pounds or tons. This shall include the information for the current month and the preceding eleven calendar months.

* A listing of the HAPs can be found in Section 112(b) of the Clean Air Act or can be obtained by contacting your Hamilton County Department of Environmental Services contact. This information does not have to be kept on a individual emissions unit basis.

4. The permit to install for emissions units P010 through P017 was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Ground-Level Concentration (MAGLC).

The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: Ethylene Glycol
TLV (ug/m³): 100,000
Maximum Hourly Emission Rate (lbs/hr): 6.8
Predicted 1-Hour Maximum Ground-Level
Concentration (ug/m³): 842
MAGLC (ug/m³): 2381

Physical changes to or in the method of operation of the emissions unit after it's installation or modification could affect the parameters used to determine whether or not the "Air Toxics Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in the "Air Toxic Policy" include the following:

- a. Changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
- b. Changes in the composition of the materials, or use of new materials, that would result in

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an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and

- c. Physical changes to the emissions unit or its exhaust parameters (e.g., increased/decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied with the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is(are) defined as a modification under other provisions of the modification definition [other than (VV)(1)(a)(ii)], then the permittee shall obtain a final permit to install prior to the change.

The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will satisfy the Air Toxic Policy:"

- a. A description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. Documentation of it's evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. When the computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services in writing identifying each day during which any photochemically reactive material [as defined in OAC rule 3745-21-01(C)(5)] was employed in this emissions unit. This report shall identify the cause for the use of photochemically reactive material(s) and the estimated total quantity of material(s) emitted each such day. This report shall be submitted to the Hamilton County Department of Environmental Services within 45 days after the exceedance occurs.
2. The permittee shall submit quarterly deviation reports which identify any exceedance of the OC emission limitation set forth in term A.2.c. If no deviations occurred during the reporting period, the permittee shall state so in the report.

The reports shall be submitted to the Director (the Hamilton County Department of Environmental Services) by January 31, April 30, July 31 and October 31 of each year and shall cover the previous three calendar months (October through December, January through March,

April through June and July through September, respectively) .

3. The permittee shall submit quarterly deviation reports which identify any exceedance of the HAP emission limitations set forth in term A.2.d. If no deviations occurred during the reporting period, the permittee shall state so in the report.

The reports shall be submitted to the Director (the Hamilton County Department of Environmental Services) by January 31, April 30, July 31 and October 31 of each year and shall cover the previous three calendar months (October through December, January through March, April through June and July through September, respectively) .

4. The permittee shall submit quarterly deviation (excursion) reports to the Hamilton County Department of Environmental Services which identify all exceedances of the rolling, 12-month colorant usage limitation in term B.1. If no deviations occurred during the reporting period, the permittee shall state so in the report.

The reports shall be submitted to the Director (the Hamilton County Department of Environmental Services) by January 31, April 30, July 31 and October 31 of each year and shall cover the previous three calendar months (October through December, January through March, April through June and July through September, respectively) .

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:
0.14 lb/hr OC

Applicable Compliance Method:

Compliance with the OC emission rate from the aqueous-based colorant production shall be determined by the following equation:

$$E = A \times 0.0005 \text{ tons/lb} \times F$$

E is the OC emission rate in tons

A is the maximum hourly aqueous-based colorant production in pounds

F is the emissions factor provided by the facility for the aqueous-based colorant (1.11 lbs OC/ton production).

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- b. Emission Limitation:
14.0 TPY OC for emissions units P010 through P017 based upon a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements as specified in Section C.2.

The OC emission rate from the aqueous-based colorant production shall be determined by the following equation:

$$E = A \times 0.0005 \text{ tons/lb} \times F \times 0.0005 \text{ tons/lb}$$

E is the OC emission rate in tons

A is the monthly or annual aqueous-based colorant production in pounds

F is the emissions factor provided by the facility for the aqueous-based colorant (1.11 lbs OC/ton production).

- c. Emission Limitation:
50,000,000 pounds/year colorant, based upon a rolling, 12-month summation

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements as specified in Section C.2.

- d. Emission Limitation:
9.9 TPY for any single HAP and 24.9 TPY for combined HAPs

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Applicable Compliance Method:

Compliance with the HAP emission limitations will be determined by the record keeping requirements specified in Section C.3.

F. Miscellaneous Requirements

1. The terms and conditions in this permit to install supersede Permit to Install 14-04380, for emissions units P010 through P017, as issued on September 24, 1997 and modified on July 22, 1998.
2. The following terms and conditions of this permit are federally enforceable: A, B, C.1 - C.3 , D and E.