☒ **Synthetic Minor Determination and/or** ☐ **Netting Determination**

Permit To Install **02-19683**

A. Source Description

KraftMaid Cabinetry Plant 3, Inc., is located at 150 Grand Valley Avenue in Orwell, Ashtabula County, Ohio. The facility is a job shop which manufactures wooden cabinets and operates under SIC code 2434. The facility is currently a synthetic minor to limit HAP emissions below 10 tons per year for each individual HAP and 25 tons per year for total HAPs.

B. Facility Emissions and Attainment Status

The facility currently operates under a synthetic minor Permit to Install (PTI) No. 02-18,585 which was effective on December 9, 2004. This permit includes 3 total permanent enclosures and 2 regenerative thermal oxidizers (RTOs) and requires 99% overall control efficiency, by weight. The permit allows 55.4 tons per year VOC, 9.5 tons per year for any single HAP and 24.8 tons per year for total HAPs. The permit also restricts CO and NOx emissions from the RTOs. The facility's particulate emissions (PE) are restricted under PTI No. 02-14,529 which was effective on June 28, 2001. Ashtabula County is non-attainment for ozone.

C. Source Emissions

KraftMaid proposes to install 13 new coating booths in a new total permanent enclosure with emissions controlled by a new RTO. BAT will require 99% overall control efficiency for the new operations. The facility will be a synthetic minor for HAP emissions. Any single HAP from the proposed operations will be restricted to 3.17 tons per year , total HAPs will be restricted to 8.27 tons per year. Facility-wide HAPs will be restricted to 9.5 tons per year for any single HAP and 24.8 tons per for total HAPs. The facility is not a synthetic minor for VOC emissions. Facility-wide VOC emissions will be limited to 83.10 tons per year.

D. Conclusion

KraftMaid's proposal will allow for the installation of a new conveyor line (no. 6) with nine new spray booths, one Cefla (automated) spray booth, 2 repair booths and a glaze booth. Based upon restricting the VOC content of the coatings and support materials employed, defining the maximum amount of all materials to be employed, the use of a total permanent enclosure for 100% capture efficiency and a regenerative thermal oxidizer with 99% destruction efficiency by weight, this facility will remain a minor facility. The facility will not be subject to Title V permitting or to any MACT rules.

State of Ohio Environmental Protection Agency

Street Address:
Lazarus Gov. Center
122 S. Front Street
Columbus, OH 43215

TELE: (614) 644-3020 **FAX:** (614) 644-2329

Mailing Address:
Lazarus Gov. Center
P.O. Box 1049
Columbus, OH 43216-1049

RE: DRAFT PERMIT TO INSTALL
ASHTABULA COUNTY
Application No: 02-19683
Fac ID: 0204000360

DATE: 9/28/2004

CERTIFIED MAIL

	TOXIC REVIEW
	PSD
Y	**SYNTHETIC MINOR**
	CEMS
	MACT
	NSPS
	NESHAPS
	NETTING
	MAJOR NON-ATTAINMENT
Y	**MODELING SUBMITTED**
	GASOLINE DISPENSING FACILITY

Kraftmaid Cabinetry, Plant 3
Tim Moore
15535 South State St.
Middlefield, OH 440621055

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 of 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 **$2600** 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.
Sincerely,

Michael W. Ahern
Michael W. Ahern, Manager
Permit Issuance and Data Management Section
Division of Air Pollution Control

CC: USEPA NEDO Eastgate Development & Transportation Study NY PA

ASHTABULA COUNTY

PUBLIC NOTICE
ISSUANCE OF DRAFT PERMIT TO INSTALL **02-19683** FOR AN AIR CONTAMINANT SOURCE FOR
Kraftmaid Cabinetry, Plant 3

On 9/28/2004 the Director of the Ohio Environmental Protection Agency issued a draft action of a Permit To Install an air contaminant source for **Kraftmaid Cabinetry, Plant 3**, located at **150 Grand Valley Ave., Orwell**, Ohio.

Installation of the air contaminant source identified below may proceed upon final issuance of Permit To Install 02-19683:

11 paint spray booths for wood cabinet coating.

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.

Dennis Bush, Ohio EPA, Northeast District Office, 2110 East Aurora Road, Twinsburg, OH 44087 [(330)425-9171]

DRAFT PERMIT TO INSTALL 02-19683

Application Number: 02-19683

Facility ID: 0204000360

Permit Fee: **To be entered upon final issuance**

Name of Facility: Kraftmaid Cabinetry, Plant 3

Person to Contact: Tim Moore

Address: 15535 South State St.
Middlefield, OH 440621055

Location of proposed air contaminant source(s) [emissions unit(s)]:
150 Grand Valley Ave.
Orwell, Ohio

Description of proposed emissions unit(s):
11 paint spray booths for wood cabinet coating.

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 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

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This 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 emissions unit(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

Pollutant	Tons Per Year
VOC	27.7
Single HAP	3.17
Total HAP	8.27
NOx	3.3
CO	2.8

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
K030 - Spray booth 1 of overhead conveyor line 6, located in total permanent enclosure no. 4 and controlled by regenerative thermal oxidizer No. 3.	OAC rule 3745-31-05 (A)(3)	Volatile Organic Compounds (VOC) emissions from RTO No. 3 shall not exceed 151.8 pounds per day and 27.7 TPY. Hazardous Air Pollutant (HAP) emissions shall not exceed 528 pounds per month for an individual HAP and 1,378 pounds per month for combined HAPs. Nitrogen Oxide (NOx) emissions from the combustion of natural gas from the thermal oxidizer shall not exceed 0.8 pound per hour, 3.3 tons per year. Carbon Monoxide (CO) emissions from the combustion of natural gas from the thermal oxidizer shall not exceed 0.6 pound per hour, 2.8 tons per year. The requirements of this rule also include compliance with the requirements of OAC rule 3745-35-07 (B).
	OAC rule 3745-35-07 (B) OAC rule 3745-21-07 (G)(2)	See Section A.2.a through A.2.e.

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	The requirements of this rule are less stringent than the requirements established pursuant to OAC rule 3745-31-05 (A)(3).

2. Additional Terms and Conditions

2.a The permittee shall design enclosure #4 that will house K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042 in such a manner as to function as a permanent total enclosure (PTE) as defined by U.S. EPA Method 204. The use of the PTE, as defined in Reference Method 204, provides for 100% capture efficiency.

2.b The permittee shall install and maintain an incineration system to control the VOC emissions from the permanent total enclosure, PTE #4. The incinerator system shall have a VOC destruction efficiency of at least 99% by weight.

2.c The volatile organic compound (VOC) content of the Coatings (including stains, toners, glazes, topcoats and sealers) and Solvents & Support Materials used by the permittee at this emissions unit shall not exceed the following VOC content:

Coatings	7.5 lbs VOC/gallon
Solvents & Support Materials	9.0 lbs VOC/gallon

2.d Emissions from the Regenerative Thermal Oxidizer (RTO) #3 shall be restricted in such a manner to limit emissions from emissions units K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042 to the following:

i. 27.7 tons VOC per rolling 12 month period;
ii. 3.17 tons per rolling 12 month period of any individual HAP; and
iii. 8.27 tons per rolling 12 month period of total aggregate HAPs.

2.e Emissions from the entire facility shall not exceed the following limits:

i. 83.10 tons VOC per rolling 12 month period;
ii. 9.5 tons per rolling 12 month period of any individual HAP; and
iii. 24.8 tons per rolling 12 month period of total aggregate HAPs.

B. Operational Restrictions

1. The average combustion temperature within RTO #3, for any 3-hour block of time when an associated emissions unit is in operation, shall not be more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the RTO system was in compliance with the destruction efficiency requirement.

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2. The permanent total enclosure shall be maintained under negative pressure, at a minimum pressure differential that is not less than the minimum pressure differential (inches of water) established during the most recent emission test that demonstrated the emissions unit was in compliance or 0.007 inches of water as established in Method 204, whenever the emissions unit is in operation.

3. The permittee shall limit the total coating and solvent usage for PTE #4 (K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042) as follows:

Coatings (including stains, toners, glazes, topcoats and sealers)	43,196 gallons/month
Solvents & Support Materials	15,300 gallons/month

C. Monitoring and/or Record keeping Requirements

1. The permittee shall install, maintain and operate monitoring devices and a recorder which simultaneously measure and record the pressure inside and outside the permanent total enclosure.

   The monitoring and recording devices shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

   The permittee shall record and maintain the following information on a daily basis:

   a. The difference in pressure between the permanent total enclosure and the surrounding area(s).

   b. A log or record of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

2. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

3. The permittee shall collect and record the following information for each day for RTO #3:

   a. A log of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions units.

   b. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when any of the associated emissions unit was in operation, was more than 50 degrees Fahrenheit below the average temperature during the most recent

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emission test that demonstrated the incinerator system was in compliance with the destruction efficiency requirement.

4. The permittee shall collect and record the following information each day for emissions units K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042.

   a. The name and identification number of each coating, solvent and support material, and cleanup material, as applied.

   b. The VOC content of each coating, solvent and support material, and cleanup material, as applied, in pounds per gallon.

   c. The number of gallons of each coating, solvent and support material, and cleanup material employed.

   d. The content of each individual HAP (i.e. xylene, toluene, and any other HAP) in each coating, solvent and support material and cleanup material employed, in pounds per gallon.

   e. The total uncontrolled VOC emission rate for all coatings, solvent and support materials, and cleanup materials employed, in pounds per day. This calculation is the summation of the product of (4.b or VOC content in pounds per gallon) times (4.c or number of gallons per day) for each coating, solvent, support material and cleanup material employed.

   f. The total uncontrolled emission rate for each individual HAP from all coatings, solvent and support materials and cleanup materials employed, in pounds per day. This calculation is the summation of the product of (4.d or individual HAP content in pounds per gallon) times (4.c or number of gallons per day) for each coating, solvent, support material and cleanup material employed.

   g. The total uncontrolled emission rate of all HAPs collectively from all coatings, solvent and support materials and cleanup materials employed, in pounds per day. This calculation is summation of each individual HAP emission rate, as determined above in 4.f.

   h. The calculated, controlled VOC emission rate for all coatings, solvent and support materials and cleanup materials, in pounds per day. The controlled, daily VOC emission rate shall be calculated using the overall control efficiency for the control equipment as determined during the most recent emission test that demonstrated that the emissions unit was in compliance. The controlled VOC emission rate is the uncontrolled VOC emission rate multiplied by (1 minus the overall control efficiency, in percentage).

   i. The calculated, controlled emission rate for each individual HAP from all coatings, solvent and support materials and cleanup materials, in pounds per day. The controlled

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emission rate shall be calculated using the overall control efficiency for the control equipment as determined during the most recent emission test that demonstrated that the emissions unit was in compliance. The controlled emission rate for each individual HAP is the uncontrolled emission rate multiplied by (1 minus the overall control efficiency, in percentage).

j. The total controlled emission rate of all HAPs collectively from all coatings, solvent and support materials and cleanup materials employed, in pounds per day. This calculation is summation of each individual HAP controlled emission rate, as determined above in 4.i.

5. The permittee shall collect and record the following information each month for emissions units K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042.

a. The controlled emission rate for each individual HAP from all coatings, solvent and support materials and cleanup materials, in pounds per rolling 12 month period. This calculation is the summation of each daily emission rate, as recorded per Section C.4.i, for the past twelve months and then multiplied by ton/2,000 lbs.

b. The controlled emission rate for all HAPs collectively from all coatings, solvent and support materials and cleanup materials, in pounds per rolling 12 month period. This calculation is the summation of each daily emission rate, as recorded per Section C.4.j, for the past twelve months and then multiplied by ton/2,000 lbs.

c. The controlled VOC emission rate for all coatings, solvent and support materials and cleanup materials, in tons per rolling 12 month period. This calculation is the summation of each daily emission rate, as recorded per Section C.4.h, for the past twelve months and then multiplied by ton/2,000 lbs.

d. The coating usage rate as described in Section B.3 in gallons per month.

e. The solvent usage rate as described in Section B.3 in gallons per month.

6. The permit to install for this emissions unit was evaluated based on the actual 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. The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following table summarizes the results of the modeling from RTO #3:

Compound	TLV ($ug.m^3$)	MAGLC = TLV/42 ($ug.m^3$)	Emission rate (g/s)	Predicted 1-hr max ground level conc. ($ug.m^3$)	MAGLC exceeded (Y/N)

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formaldehyde	271	6	0.79	0.93	N
methanol	262,086	6,240	0.79	0.93	N
acetone	1,187,116	28,264	0.79	0.93	N
MEK	589,775	14,042	0.79	0.93	N
naphthalene	52,429	1,248	0.79	0.93	N
cumene	245,787	5,852	0.79	0.93	N
ethylbenzene	4343,192	10,338	0.79	0.93	N
MIBK	204,826	4,877	0.79	0.93	N
toluene	188,405	4,486	0.79	0.93	N
hexane	1,762,372	41,961	0.79	0.93	N
xylene	434,192	10,338	0.79	0.93	N

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

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

   b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and

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

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

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(other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change(s).

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

   a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);

   b. documentation of its evaluation and determination that the changed emissions unit still satisfied the "Air Toxic Policy"; and

   c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

D. Reporting Requirements

1. The permittee shall submit quarterly summaries of the following records:

   a. A log of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emission unit.

   b. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator does not comply with the temperature limitation specified above.

   c. All periods of time during which the permanent total enclosure was not maintained at the required differential pressure specified above.

   d. A list of all days when the daily VOC emission rate from RTO #3 exceeded 151.8 pounds.

   e. A list of any days when noncomplying coatings were used.

   f. A list of all months when the amount of coatings (including stains, toners, glazes, topcoats and sealers) exceeded 43,196 gallons, and the amount of solvent and support materials exceeded 15,300 gallons.

2. The permittee shall also submit a quarterly deviation report when the total controlled emissions of VOC, individual HAPs, and/or the total aggregate HAPs from RTO #3 exceed the limits listed in A.2.d and A.2.e respectively.

E. Testing Requirements

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

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a Emission Limitation:
151.8 lbs VOC /day and 27.7 tons VOC per rolling 12 month period from RTO #3

Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section C.4 and C.5.

b Emission Limitation:
528 lbs/month and 3.17 tons per rolling 12 month period of an individual HAP from RTO #3

Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section C.5.

c Emission Limitation:
1,378 lbs/month and 8.27 tons per rolling 12 month period of all HAPs from RTO #3

Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section C.5.

d Compliance with the VOC content restrictions of each coating, solvent and support material, and cleanup material shall be based upon the use of U.S. EPA Method 24.

e Emission Limitation:
0.8 lb NOx/hr and 3.3 tons NOx/year from the combustion of natural gas in the thermal oxidizer.

Applicable Compliance Method:
The following equation shall be used to determine the hourly emission rate.

E = EF x R x 1/H

where:

E = Emission rate, in lbs/hr

EF = Emission factor (AP-42, Section 1.4) for NOx is 100 lbs/mm cf.

R = Maximum rating of the thermal oxidizer reported to be 7.5 mm Btu/hr.

H = Heating value of the natural gas, in Btu/cf. 1,020 Btu/cf was used in the emission calculation for this permit.

The yearly rate, in tons/year, shall be determined by multiplying the hourly rate (lbs/hr) as calculated above, by (# hrs of operation/year) and (ton/2,000 lbs).

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f Emission Limitation:
0.6 lb CO/hr and 2.8 tons CO/year from the combustion of natural gas in the thermal oxidizer.

Applicable Compliance Method:
The following equation shall be used to determine the hourly emission rate.

E = EF x R x 1/H

where:

E = Emission rate, in lbs/hr

EF = Emission factor (AP-42, Section 1.4) for CO is 84 lbs/mm cf.

R = Maximum rating of the thermal oxidizer reported to be 7.5 mm Btu/hr.

H = Heating value of the natural gas, in Btu/cf. 1,020 Btu/cf was used in the emission calculation for this permit.

The yearly rate (tons/year) shall be determined by multiplying the hourly rate (lbs/hr), as calculated above, by (# hrs of operation/year) and (ton/2,000 lbs).

2. The permittee shall conduct, or have conducted, emission testing for this emission unit in accordance with the following requirements:

   a. The emission testing shall be conducted within 6 months after issuance of this permit.

   b. The emission testing shall be conducted to demonstrate compliance with the VOC capture efficiency and control efficiency requirement specified in Section A.2.a. Emission testing shall also be conducted to establish the average combustion temperature within the thermal incinerator, as specified in Section B.1, and to establish the minimum pressure differential within the permanent total enclosure, as specified in Section B.2.

   c. The test(s) shall be conducted while the emissions units are operating at or near their maximum capacity, unless otherwise specified or approved by the Ohio EPA Northeast District Office.

   d. The capture efficiency shall be determined using Methods 204 through 204F, as specified in 40 CFR part 51, Appendix M, or the permittee may request to use an alternative method or procedure for the determination of capture efficiency in accordance with the U.S. EPA's "Guideline for Determining Capture Efficiency," dated January 9, 1995. (The Ohio EPA will consider the request, including an evaluation of the applicability, necessity, and validity of the alternative, and may approve the use of the alternative if such approval does not contravene any other applicable requirement.)

   e. The control efficiency (i.e., the percent reduction in mass emissions between the inlet and outlet of the control system) shall be determined in accordance with the test methods and

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procedures specified in OAC rule 3745-21-10 or an approved alternative test protocol. The test methods and procedures selected shall be based on a consideration of the diversity of the organic species present and their total concentration, and on a consideration of the potential presence of interfering gases.

f. U.S. EPA Method 24 shall be used, in accordance with OAC rule 3745-21-04(B)(5), to determine the VOC contents for all coatings, solvent and support materials, and cleanup materials used during the performance test(s). If, pursuant to section 4.3 of Method 24, 40 CFR part 60, Appendix A, an owner or operator determines that Method 24 cannot be used for a particular coating, solvent and support material, or cleanup material, the permittee shall so notify the Administrator of the U.S. EPA and shall use formulation data for that coating, solvent and support material, or cleanup material to demonstrate compliance until the U.S. EPA provides alternative analytical procedures or alternative precision statements for Method 24.

g. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Northeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA Northeast District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA Northeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

h. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Northeast District Office within 30 days following completion of the test(s).

F. Miscellaneous Requirements

1. In accordance with the provisions of OAC rule 3745-35-07, the following terms and conditions of this permit to install are federally enforceable: A-F, except C.6, C.7 and C.8.

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
K031 - Spray booth 2 of overhead conveyor line 6, located in total permanent enclosure no. 4 and controlled by regenerative thermal oxidizer no. 3.	OAC rule 3745-31-05 (A)(3)	Volatile Organic Compounds (VOC) emissions shall not exceed 151.8 pounds per day and 27.7 TPY. Hazardous Air Pollutant (HAP) emissions shall not exceed 528 pounds per month for an individual HAP and 1,378 pounds per month for combined HAPs. Nitrogen Oxide (NOx) emissions from the combustion of natural gas from the thermal oxidizer shall not exceed 0.8 pound per hour, 3.3 tons per year. Carbon Monoxide (CO) emissions from the combustion of natural gas from the thermal oxidizer shall not exceed 0.6 pound per hour, 2.8 tons per year. The requirements of this rule also include compliance with the requirements of OAC rule 3745-35-07 (B).
	OAC rule 3745-35-07 (B)	See Section A.2.a through A.2.e.
	OAC rule 3745-21-07 (G)(2)	The requirements of this rule are less stringent than the requirements

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	established pursuant to OAC rule 3745-31-05 (A)(3).

2. Additional Terms and Conditions

2.a The permittee shall design enclosure #4 that will house K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042 in such a manner as to function as a permanent total enclosure (PTE) as defined by U.S. EPA Method 204. The use of the PTE, as defined in Reference Method 204, provides for 100% capture efficiency.

2.b The permittee shall install and maintain an incineration system to control the VOC emissions from the permanent total enclosure, PTE #4. The incinerator system shall have a VOC destruction efficiency of at least 99% by weight.

2.c The volatile organic compound (VOC) content of the Coatings (including stains, toners, glazes, topcoats and sealers) and Solvents & Support Materials used by the permittee at this emissions unit shall not exceed the following VOC content:

Coatings	7.5 lbs VOC/gallon
Solvents & Support Materials	9.0 lbs VOC/gallon

2.d Emissions from the Regenerative Thermal Oxidizer (RTO) #3 shall be restricted in such a manner to limit emissions from emissions units K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042 to the following:

i. 27.7 tons VOC per rolling 12 month period;
ii. 3.17 tons per rolling 12 month period of any individual HAP; and
iii. 8.27 tons per rolling 12 month period of total aggregate HAPs.

2.e Emissions from the entire facility shall not exceed the following limits:

i. 83.10 tons VOC per rolling 12 month period;
ii. 9.5 tons per rolling 12 month period of any individual HAP; and
iii. 24.8 tons per rolling 12 month period of total aggregate HAPs.

B. Operational Restrictions

1. The average combustion temperature within RTO #3, for any 3-hour block of time when an associated emissions unit is in operation, shall not be more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the RTO system was in compliance with the destruction efficiency requirement.

2. The permanent total enclosure shall be maintained under negative pressure, at a minimum pressure differential that is not less than the minimum pressure differential (inches of water) established during the most recent emission test that demonstrated the emissions unit was in

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compliance or 0.007 inches of water as established in Method 204, whenever the emissions unit is in operation.

3. The permittee shall limit the total coating and solvent usage for PTE #4 (K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042) as follows:

Coatings (including stains, toners, glazes, topcoats and sealers)	43,196 gallons/month
Solvents & Support Materials	15,300 gallons/month

C. Monitoring and/or Record keeping Requirements

1. The permittee shall install, maintain and operate monitoring devices and a recorder which simultaneously measure and record the pressure inside and outside the permanent total enclosure.

   The monitoring and recording devices shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

   The permittee shall record and maintain the following information on a daily basis:

   a. The difference in pressure between the permanent total enclosure and the surrounding area(s).

   b. A log or record of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

2. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

3. The permittee shall collect and record the following information for each day for RTO #3:

   a. A log of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions units.

   b. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when any of the associated emissions unit was in operation, was more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the incinerator system was in compliance with the destruction efficiency requirement.

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4. The permittee shall collect and record the following information each day for emissions units K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042.

   a. The name and identification number of each coating, solvent and support material, and cleanup material, as applied.

   b. The VOC content of each coating, solvent and support material, and cleanup material, as applied, in pounds per gallon.

   c. The number of gallons of each coating, solvent and support material, and cleanup material employed.

   d. The content of each individual HAP (i.e. xylene, toluene, and any other HAP) in each coating, solvent and support material and cleanup material employed, in pounds per gallon.

   e. The total uncontrolled VOC emission rate for all coatings, solvent and support materials, and cleanup materials employed, in pounds per day. This calculation is the summation of the product of (4.b or VOC content in pounds per gallon) times (4.c or number of gallons per day) for each coating, solvent, support material and cleanup material employed.

   f. The total uncontrolled emission rate for each individual HAP from all coatings, solvent and support materials and cleanup materials employed, in pounds per day. This calculation is the summation of the product of (4.d or individual HAP content in pounds per gallon) times (4.c or number of gallons per day) for each coating, solvent, support material and cleanup material employed.

   g. The total uncontrolled emission rate of all HAPs collectively from all coatings, solvent and support materials and cleanup materials employed, in pounds per day. This calculation is summation of each individual HAP emission rate, as determined above in 4.f.

   h. The calculated, controlled VOC emission rate for all coatings, solvent and support materials and cleanup materials, in pounds per day. The controlled, daily VOC emission rate shall be calculated using the overall control efficiency for the control equipment as determined during the most recent emission test that demonstrated that the emissions unit was in compliance. The controlled VOC emission rate is the uncontrolled VOC emission rate multiplied by (1 minus the overall control efficiency, in percentage).

   i. The calculated, controlled emission rate for each individual HAP from all coatings, solvent and support materials and cleanup materials, in pounds per day. The controlled emission rate shall be calculated using the overall control efficiency for the control equipment as determined during the most recent emission test that demonstrated that the emissions unit was in compliance. The controlled emission rate for each individual HAP

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is the uncontrolled emission rate multiplied by (1 minus the overall control efficiency, in percentage).

j. The total controlled emission rate of all HAPs collectively from all coatings, solvent and support materials and cleanup materials employed, in pounds per day. This calculation is summation of each individual HAP controlled emission rate, as determined above in 4.i.

5. The permittee shall collect and record the following information each month for emissions units K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042.

a. The controlled emission rate for each individual HAP from all coatings, solvent and support materials and cleanup materials, in pounds per rolling 12 month period. This calculation is the summation of each daily emission rate, as recorded per Section C.4.i, for the past twelve months and then multiplied by ton/2,000 lbs.

b. The controlled emission rate for all HAPs collectively from all coatings, solvent and support materials and cleanup materials, in pounds per rolling 12 month period. This calculation is the summation of each daily emission rate, as recorded per Section C.4.j, for the past twelve months and then multiplied by ton/2,000 lbs.

c. The controlled VOC emission rate for all coatings, solvent and support materials and cleanup materials, in tons per rolling 12 month period. This calculation is the summation of each daily emission rate, as recorded per Section C.4.h, for the past twelve months and then multiplied by ton/2,000 lbs.

d. The coating usage rate as described in Section B.3 in gallons per month.

e. The solvent usage rate as described in Section B.3 in gallons per month.

6. The permit to install for this emissions unit was evaluated based on the actual 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. The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following table summarizes the results of the modeling from RTO #3:

Compound	TLV ($ug.m^3$)	MAGLC = TLV/42 ($ug.m^3$)	Emission rate (g/s)	Predicted 1-hr max ground level conc. ($ug.m^3$)	MAGLC exceeded (Y/N)
formaldehyde	271	6	0.79	0.93	N

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methanol	262,086	6,240	0.79	0.93	N
acetone	1,187,116	28,264	0.79	0.93	N
MEK	589,775	14,042	0.79	0.93	N
naphthalene	52,429	1,248	0.79	0.93	N
cumene	245,787	5,852	0.79	0.93	N
ethylbenzene	4343,192	10,338	0.79	0.93	N
MIBK	204,826	4,877	0.79	0.93	N
toluene	188,405	4,486	0.79	0.93	N
hexane	1,762,372	41,961	0.79	0.93	N
xylene	434,192	10,338	0.79	0.93	N

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

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

   b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and

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

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

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

   a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);

   b. documentation of its evaluation and determination that the changed emissions unit still satisfied the "Air Toxic Policy"; and

   c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

D. Reporting Requirements

1. The permittee shall submit quarterly summaries of the following records:

   a. A log of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emission unit.

   b. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator does not comply with the temperature limitation specified above.

   c. All periods of time during which the permanent total enclosure was not maintained at the required differential pressure specified above.

   d. A list of all days when the daily VOC emission rate from RTO #3 exceeded 151.8 pounds.

   e. A list of any days when noncomplying coatings were used.

   f. A list of all months when the amount of coatings (including stains, toners, glazes, topcoats and sealers) exceeded 43,196 gallons, and the amount of solvent and support materials exceeded 15,300 gallons.

2. The permittee shall also submit a quarterly deviation report when the total controlled emissions of VOC, individual HAPs, and/or the total aggregate HAPs from RTO #3 exceed the limits listed in A.2.d and A.2.e respectively.

E. Testing Requirements

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

   a Emission Limitation:
   151.8 lbs VOC /day and 27.7 tons VOC per rolling 12 month period from RTO #3

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Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section C.4 and C.5.

b Emission Limitation:
528 lbs/month and 3.17 tons per rolling 12 month period of an individual HAP from RTO #3

Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section C.5.

c Emission Limitation:
1,378 lbs/month and 8.27 tons per rolling 12 month period of all HAPs from RTO #3

Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section C.5.

d Compliance with the VOC content restrictions of each coating, solvent and support material, and cleanup material shall be based upon the use of U.S. EPA Method 24.

e Emission Limitation:
0.8 lb NOx/hr and 3.3 tons NOx/year from the combustion of natural gas in the thermal oxidizer.

Applicable Compliance Method:
The following equation shall be used to determine the hourly emission rate.

E = EF x R x 1/H

where:

E = Emission rate, in lbs/hr

EF = Emission factor (AP-42, Section 1.4) for NOx is 100 lbs/mm cf.

R = Maximum rating of the thermal oxidizer reported to be 7.5 mm Btu/hr.

H = Heating value of the natural gas, in Btu/cf. 1,020 Btu/cf was used in the emission calculation for this permit.

The yearly rate, in tons/year, shall be determined by multiplying the hourly rate (lbs/hr) as calculated above, by (# hrs of operation/year) and (ton/2,000 lbs).

f Emission Limitation:
0.6 lb CO/hr and 2.8 tons CO/year from the combustion of natural gas in the thermal oxidizer.

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Applicable Compliance Method:
The following equation shall be used to determine the hourly emission rate.

E = EF x R x 1/H

where:

E = Emission rate, in lbs/hr

EF = Emission factor (AP-42, Section 1.4) for CO is 84 lbs/mm cf.

R = Maximum rating of the thermal oxidizer reported to be 7.5 mm Btu/hr.

H = Heating value of the natural gas, in Btu/cf. 1,020 Btu/cf was used in the emission calculation for this permit.

The yearly rate (tons/year) shall be determined by multiplying the hourly rate (lbs/hr), as calculated above, by (# hrs of operation/year) and (ton/2,000 lbs).

2 The permittee shall conduct, or have conducted, emission testing for this emission unit in accordance with the following requirements:

a. The emission testing shall be conducted within 6 months after issuance of this permit.

b. The emission testing shall be conducted to demonstrate compliance with the VOC capture efficiency and control efficiency requirement specified in Section A.2.a. Emission testing shall also be conducted to establish the average combustion temperature within the thermal incinerator, as specified in Section B.1, and to establish the minimum pressure differential within the permanent total enclosure, as specified in Section B.2.

c. The test(s) shall be conducted while the emissions units are operating at or near their maximum capacity, unless otherwise specified or approved by the Ohio EPA Northeast District Office.

d. The capture efficiency shall be determined using Methods 204 through 204F, as specified in 40 CFR part 51, Appendix M, or the permittee may request to use an alternative method or procedure for the determination of capture efficiency in accordance with the U.S. EPA's "Guideline for Determining Capture Efficiency," dated January 9, 1995. (The Ohio EPA will consider the request, including an evaluation of the applicability, necessity, and validity of the alternative, and may approve the use of the alternative if such approval does not contravene any other applicable requirement.)

e. The control efficiency (i.e., the percent reduction in mass emissions between the inlet and outlet of the control system) shall be determined in accordance with the test methods and procedures specified in OAC rule 3745-21-10 or an approved alternative test protocol.

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The test methods and procedures selected shall be based on a consideration of the diversity of the organic species present and their total concentration, and on a consideration of the potential presence of interfering gases.

f. U.S. EPA Method 24 shall be used, in accordance with OAC rule 3745-21-04(B)(5), to determine the VOC contents for all coatings, solvent and support materials, and cleanup materials used during the performance test(s). If, pursuant to section 4.3 of Method 24, 40 CFR part 60, Appendix A, an owner or operator determines that Method 24 cannot be used for a particular coating, solvent and support material, or cleanup material, the permittee shall so notify the Administrator of the U.S. EPA and shall use formulation data for that coating, solvent and support material, or cleanup material to demonstrate compliance until the U.S. EPA provides alternative analytical procedures or alternative precision statements for Method 24.

g. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Northeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA Northeast District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA Northeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

h. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Northeast District Office within 30 days following completion of the test(s).

F. Miscellaneous Requirements

1. In accordance with the provisions of OAC rule 3745-35-07, the following terms and conditions of this permit to install are federally enforceable: A-F, except C.6, C.7 and C.8.

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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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
K032 - Spray booth 3 of overhead conveyor line 6, located in total permanent enclosure no. 4 and controlled by regenerative thermal oxidizer no. 3.	OAC rule 3745-31-05 (A)(3)	Volatile Organic Compounds (VOC) emissions shall not exceed 151.8 pounds per day and 27.7 TPY. Hazardous Air Pollutant (HAP) emissions shall not exceed 528 pounds per month for an individual HAP and 1,378 pounds per month for combined HAPs. Nitrogen Oxide (NOx) emissions from the combustion of natural gas from the thermal oxidizer shall not exceed 0.8 pound per hour, 3.3 tons per year. Carbon Monoxide (CO) emissions from the combustion of natural gas from the thermal oxidizer shall not exceed 0.6 pound per hour, 2.8 tons per year. The requirements of this rule also include compliance with the requirements of OAC rule 3745-35-07 (B).
	OAC rule 3745-35-07 (B)	See Section A.2.a through A.2.e.
	OAC rule 3745-21-07 (G)(2)	The requirements of this rule are less stringent than the requirements

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	established pursuant to OAC rule 3745-31-05 (A)(3).

2. Additional Terms and Conditions

2.a The permittee shall design enclosure #4 that will house K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042 in such a manner as to function as a permanent total enclosure (PTE) as defined by U.S. EPA Method 204. The use of the PTE, as defined in Reference Method 204, provides for 100% capture efficiency.

2.b The permittee shall install and maintain an incineration system to control the VOC emissions from the permanent total enclosure, PTE #4. The incinerator system shall have a VOC destruction efficiency of at least 99% by weight.

2.c The volatile organic compound (VOC) content of the Coatings (including stains, toners, glazes, topcoats and sealers) and Solvents & Support Materials used by the permittee at this emissions unit shall not exceed the following VOC content:

Coatings	7.5 lbs VOC/gallon
Solvents & Support Materials	9.0 lbs VOC/gallon

2.d Emissions from the Regenerative Thermal Oxidizer (RTO) #3 shall be restricted in such a manner to limit emissions from emissions units K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042 to the following:

i. 27.7 tons VOC per rolling 12 month period;
ii. 3.17 tons per rolling 12 month period of any individual HAP; and
iii. 8.27 tons per rolling 12 month period of total aggregate HAPs.

2.e Emissions from the entire facility shall not exceed the following limits:

i. 83.10 tons VOC per rolling 12 month period;
ii. 9.5 tons per rolling 12 month period of any individual HAP; and
iii. 24.8 tons per rolling 12 month period of total aggregate HAPs.

B. Operational Restrictions

1. The average combustion temperature within RTO #3, for any 3-hour block of time when an associated emissions unit is in operation, shall not be more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the RTO system was in compliance with the destruction efficiency requirement.

2. The permanent total enclosure shall be maintained under negative pressure, at a minimum pressure differential that is not less than the minimum pressure differential (inches of water) established during the most recent emission test that demonstrated the emissions unit was in

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compliance or 0.007 inches of water as established in Method 204, whenever the emissions unit is in operation.

3. The permittee shall limit the total coating and solvent usage for PTE #4 (K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042) as follows:

Coatings (including stains, toners, glazes, topcoats and sealers)	43,196 gallons/month
Solvents & Support Materials	15,300 gallons/month

C. Monitoring and/or Record keeping Requirements

1. The permittee shall install, maintain and operate monitoring devices and a recorder which simultaneously measure and record the pressure inside and outside the permanent total enclosure.

   The monitoring and recording devices shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

   The permittee shall record and maintain the following information on a daily basis:

   a. The difference in pressure between the permanent total enclosure and the surrounding area(s).

   b. A log or record of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

2. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

3. The permittee shall collect and record the following information for each day for RTO #3:

   a. A log of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions units.

   b. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when any of the associated emissions unit was in operation, was more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the incinerator system was in compliance with the destruction efficiency requirement.

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4. The permittee shall collect and record the following information each day for emissions units K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042.

   a. The name and identification number of each coating, solvent and support material, and cleanup material, as applied.

   b. The VOC content of each coating, solvent and support material, and cleanup material, as applied, in pounds per gallon.

   c. The number of gallons of each coating, solvent and support material, and cleanup material employed.

   d. The content of each individual HAP (i.e. xylene, toluene, and any other HAP) in each coating, solvent and support material and cleanup material employed, in pounds per gallon.

   e. The total uncontrolled VOC emission rate for all coatings, solvent and support materials, and cleanup materials employed, in pounds per day. This calculation is the summation of the product of (4.b or VOC content in pounds per gallon) times (4.c or number of gallons per day) for each coating, solvent, support material and cleanup material employed.

   f. The total uncontrolled emission rate for each individual HAP from all coatings, solvent and support materials and cleanup materials employed, in pounds per day. This calculation is the summation of the product of (4.d or individual HAP content in pounds per gallon) times (4.c or number of gallons per day) for each coating, solvent, support material and cleanup material employed.

   g. The total uncontrolled emission rate of all HAPs collectively from all coatings, solvent and support materials and cleanup materials employed, in pounds per day. This calculation is summation of each individual HAP emission rate, as determined above in 4.f.

   h. The calculated, controlled VOC emission rate for all coatings, solvent and support materials and cleanup materials, in pounds per day. The controlled, daily VOC emission rate shall be calculated using the overall control efficiency for the control equipment as determined during the most recent emission test that demonstrated that the emissions unit was in compliance. The controlled VOC emission rate is the uncontrolled VOC emission rate multiplied by (1 minus the overall control efficiency, in percentage).

   i. The calculated, controlled emission rate for each individual HAP from all coatings, solvent and support materials and cleanup materials, in pounds per day. The controlled emission rate shall be calculated using the overall control efficiency for the control equipment as determined during the most recent emission test that demonstrated that the emissions unit was in compliance. The controlled emission rate for each individual HAP

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is the uncontrolled emission rate multiplied by (1 minus the overall control efficiency, in percentage).

j. The total controlled emission rate of all HAPs collectively from all coatings, solvent and support materials and cleanup materials employed, in pounds per day. This calculation is summation of each individual HAP controlled emission rate, as determined above in 4.i.

5. The permittee shall collect and record the following information each month for emissions units K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042.

a. The controlled emission rate for each individual HAP from all coatings, solvent and support materials and cleanup materials, in pounds per rolling 12 month period. This calculation is the summation of each daily emission rate, as recorded per Section C.4.i, for the past twelve months and then multiplied by ton/2,000 lbs.

b. The controlled emission rate for all HAPs collectively from all coatings, solvent and support materials and cleanup materials, in pounds per rolling 12 month period. This calculation is the summation of each daily emission rate, as recorded per Section C.4.j, for the past twelve months and then multiplied by ton/2,000 lbs.

c. The controlled VOC emission rate for all coatings, solvent and support materials and cleanup materials, in tons per rolling 12 month period. This calculation is the summation of each daily emission rate, as recorded per Section C.4.h, for the past twelve months and then multiplied by ton/2,000 lbs.

d. The coating usage rate as described in Section B.3 in gallons per month.

e. The solvent usage rate as described in Section B.3 in gallons per month.

6. The permit to install for this emissions unit was evaluated based on the actual 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. The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following table summarizes the results of the modeling from RTO #3:

Compound	TLV ($ug.m^3$)	MAGLC = TLV/42 ($ug.m^3$)	Emission rate (g/s)	Predicted 1-hr max ground level conc. ($ug.m^3$)	MAGLC exceeded (Y/N)
formaldehyde	271	6	0.79	0.93	N

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methanol	262,086	6,240	0.79	0.93	N
acetone	1,187,116	28,264	0.79	0.93	N
MEK	589,775	14,042	0.79	0.93	N
naphthalene	52,429	1,248	0.79	0.93	N
cumene	245,787	5,852	0.79	0.93	N
ethylbenzene	4343,192	10,338	0.79	0.93	N
MIBK	204,826	4,877	0.79	0.93	N
toluene	188,405	4,486	0.79	0.93	N
hexane	1,762,372	41,961	0.79	0.93	N
xylene	434,192	10,338	0.79	0.93	N

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

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

   b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and

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

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

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

   a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);

   b. documentation of its evaluation and determination that the changed emissions unit still satisfied the "Air Toxic Policy"; and

   c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

D. Reporting Requirements

1. The permittee shall submit quarterly summaries of the following records:

   a. A log of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emission unit.

   b. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator does not comply with the temperature limitation specified above.

   c. All periods of time during which the permanent total enclosure was not maintained at the required differential pressure specified above.

   d. A list of all days when the daily VOC emission rate from RTO #3 exceeded 151.8 pounds.

   e. A list of any days when noncomplying coatings were used.

   f. A list of all months when the amount of coatings (including stains, toners, glazes, topcoats and sealers) exceeded 43,196 gallons, and the amount of solvent and support materials exceeded 15,300 gallons.

2. The permittee shall also submit a quarterly deviation report when the total controlled emissions of VOC, individual HAPs, and/or the total aggregate HAPs from RTO #3 exceed the limits listed in A.2.d and A.2.e respectively.

E. Testing Requirements

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

   a Emission Limitation:
   151.8 lbs VOC /day and 27.7 tons VOC per rolling 12 month period from RTO #3

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Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section C.4 and C.5.

b Emission Limitation:
528 lbs/month and 3.17 tons per rolling 12 month period of an individual HAP from RTO #3

Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section C.5.

c Emission Limitation:
1,378 lbs/month and 8.27 tons per rolling 12 month period of all HAPs from RTO #3

Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section C.5.

d Compliance with the VOC content restrictions of each coating, solvent and support material, and cleanup material shall be based upon the use of U.S. EPA Method 24.

e Emission Limitation:
0.8 lb NOx/hr and 3.3 tons NOx/year from the combustion of natural gas in the thermal oxidizer.

Applicable Compliance Method:
The following equation shall be used to determine the hourly emission rate.

E = EF x R x 1/H

where:

E = Emission rate, in lbs/hr

EF = Emission factor (AP-42, Section 1.4) for NOx is 100 lbs/mm cf.

R = Maximum rating of the thermal oxidizer reported to be 7.5 mm Btu/hr.

H = Heating value of the natural gas, in Btu/cf. 1,020 Btu/cf was used in the emission calculation for this permit.

The yearly rate, in tons/year, shall be determined by multiplying the hourly rate (lbs/hr) as calculated above, by (# hrs of operation/year) and (ton/2,000 lbs).

f Emission Limitation:
0.6 lb CO/hr and 2.8 tons CO/year from the combustion of natural gas in the thermal oxidizer.

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Applicable Compliance Method:
The following equation shall be used to determine the hourly emission rate.

E = EF x R x 1/H

where:

E = Emission rate, in lbs/hr

EF = Emission factor (AP-42, Section 1.4) for CO is 84 lbs/mm cf.

R = Maximum rating of the thermal oxidizer reported to be 7.5 mm Btu/hr.

H = Heating value of the natural gas, in Btu/cf. 1,020 Btu/cf was used in the emission calculation for this permit.

The yearly rate (tons/year) shall be determined by multiplying the hourly rate (lbs/hr), as calculated above, by (# hrs of operation/year) and (ton/2,000 lbs).

2. The permittee shall conduct, or have conducted, emission testing for this emission unit in accordance with the following requirements:

   a. The emission testing shall be conducted within 6 months after issuance of this permit.

   b. The emission testing shall be conducted to demonstrate compliance with the VOC capture efficiency and control efficiency requirement specified in Section A.2.a. Emission testing shall also be conducted to establish the average combustion temperature within the thermal incinerator, as specified in Section B.1, and to establish the minimum pressure differential within the permanent total enclosure, as specified in Section B.2.

   c. The test(s) shall be conducted while the emissions units are operating at or near their maximum capacity, unless otherwise specified or approved by the Ohio EPA Northeast District Office.

   d. The capture efficiency shall be determined using Methods 204 through 204F, as specified in 40 CFR part 51, Appendix M, or the permittee may request to use an alternative method or procedure for the determination of capture efficiency in accordance with the U.S. EPA's "Guideline for Determining Capture Efficiency," dated January 9, 1995. (The Ohio EPA will consider the request, including an evaluation of the applicability, necessity, and validity of the alternative, and may approve the use of the alternative if such approval does not contravene any other applicable requirement.)

   e. The control efficiency (i.e., the percent reduction in mass emissions between the inlet and outlet of the control system) shall be determined in accordance with the test methods and procedures specified in OAC rule 3745-21-10 or an approved alternative test protocol.

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The test methods and procedures selected shall be based on a consideration of the diversity of the organic species present and their total concentration, and on a consideration of the potential presence of interfering gases.

f. U.S. EPA Method 24 shall be used, in accordance with OAC rule 3745-21-04(B)(5), to determine the VOC contents for all coatings, solvent and support materials, and cleanup materials used during the performance test(s). If, pursuant to section 4.3 of Method 24, 40 CFR part 60, Appendix A, an owner or operator determines that Method 24 cannot be used for a particular coating, solvent and support material, or cleanup material, the permittee shall so notify the Administrator of the U.S. EPA and shall use formulation data for that coating, solvent and support material, or cleanup material to demonstrate compliance until the U.S. EPA provides alternative analytical procedures or alternative precision statements for Method 24.

g. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Northeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA Northeast District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA Northeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

h. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Northeast District Office within 30 days following completion of the test(s).

F. Miscellaneous Requirements

1. In accordance with the provisions of OAC rule 3745-35-07, the following terms and conditions of this permit to install are federally enforceable: A-F, except C.6, C.7 and C.8.

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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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
K033 - Spray booth 4 of overhead conveyor line 6, located in total permanent enclosure no. 4 and controlled by regenerative thermal oxidizer no. 3.	OAC rule 3745-31-05 (A)(3)	Volatile Organic Compounds (VOC) emissions shall not exceed 151.8 pounds per day and 27.7 TPY. Hazardous Air Pollutant (HAP) emissions shall not exceed 528 pounds per month for an individual HAP and 1,378 pounds per month for combined HAPs. Nitrogen Oxide (NOx) emissions from the combustion of natural gas from the thermal oxidizer shall not exceed 0.8 pound per hour, 3.3 tons per year. Carbon Monoxide (CO) emissions from the combustion of natural gas from the thermal oxidizer shall not exceed 0.6 pound per hour, 2.8 tons per year. The requirements of this rule also include compliance with the requirements of OAC rule 3745-35-07 (B).
	OAC rule 3745-35-07 (B)	See Section A.2.a through A.2.e.
	OAC rule 3745-21-07 (G)(2)	The requirements of this rule are less stringent than the requirements

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	established pursuant to OAC rule 3745-31-05 (A)(3).

2. Additional Terms and Conditions

2.a The permittee shall design enclosure #4 that will house K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042 in such a manner as to function as a permanent total enclosure (PTE) as defined by U.S. EPA Method 204. The use of the PTE, as defined in Reference Method 204, provides for 100% capture efficiency.

2.b The permittee shall install and maintain an incineration system to control the VOC emissions from the permanent total enclosure, PTE #4. The incinerator system shall have a VOC destruction efficiency of at least 99% by weight.

2.c The volatile organic compound (VOC) content of the Coatings (including stains, toners, glazes, topcoats and sealers) and Solvents & Support Materials used by the permittee at this emissions unit shall not exceed the following VOC content:

Coatings	7.5 lbs VOC/gallon
Solvents & Support Materials	9.0 lbs VOC/gallon

2.d Emissions from the Regenerative Thermal Oxidizer (RTO) #3 shall be restricted in such a manner to limit emissions from emissions units K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042 to the following:

i. 27.7 tons VOC per rolling 12 month period;
ii. 3.17 tons per rolling 12 month period of any individual HAP; and
iii. 8.27 tons per rolling 12 month period of total aggregate HAPs.

2.e Emissions from the entire facility shall not exceed the following limits:

i. 83.10 tons VOC per rolling 12 month period;
ii. 9.5 tons per rolling 12 month period of any individual HAP; and
iii. 24.8 tons per rolling 12 month period of total aggregate HAPs.

B. Operational Restrictions

1. The average combustion temperature within RTO #3, for any 3-hour block of time when an associated emissions unit is in operation, shall not be more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the RTO system was in compliance with the destruction efficiency requirement.

2. The permanent total enclosure shall be maintained under negative pressure, at a minimum pressure differential that is not less than the minimum pressure differential (inches of water) established during the most recent emission test that demonstrated the emissions unit was in

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compliance or 0.007 inches of water as established in Method 204, whenever the emissions unit is in operation.

3. The permittee shall limit the total coating and solvent usage for PTE #4 (K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042) as follows:

Coatings (including stains, toners, glazes, topcoats and sealers)	43,196 gallons/month
Solvents & Support Materials	15,300 gallons/month

C. Monitoring and/or Record keeping Requirements

1. The permittee shall install, maintain and operate monitoring devices and a recorder which simultaneously measure and record the pressure inside and outside the permanent total enclosure.

   The monitoring and recording devices shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

   The permittee shall record and maintain the following information on a daily basis:

   a. The difference in pressure between the permanent total enclosure and the surrounding area(s).

   b. A log or record of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

2. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

3. The permittee shall collect and record the following information for each day for RTO #3:

   a. A log of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions units.

   b. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when any of the associated emissions unit was in operation, was more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the incinerator system was in compliance with the destruction efficiency requirement.

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4. The permittee shall collect and record the following information each day for emissions units K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042.

   a. The name and identification number of each coating, solvent and support material, and cleanup material, as applied.

   b. The VOC content of each coating, solvent and support material, and cleanup material, as applied, in pounds per gallon.

   c. The number of gallons of each coating, solvent and support material, and cleanup material employed.

   d. The content of each individual HAP (i.e. xylene, toluene, and any other HAP) in each coating, solvent and support material and cleanup material employed, in pounds per gallon.

   e. The total uncontrolled VOC emission rate for all coatings, solvent and support materials, and cleanup materials employed, in pounds per day. This calculation is the summation of the product of (4.b or VOC content in pounds per gallon) times (4.c or number of gallons per day) for each coating, solvent, support material and cleanup material employed.

   f. The total uncontrolled emission rate for each individual HAP from all coatings, solvent and support materials and cleanup materials employed, in pounds per day. This calculation is the summation of the product of (4.d or individual HAP content in pounds per gallon) times (4.c or number of gallons per day) for each coating, solvent, support material and cleanup material employed.

   g. The total uncontrolled emission rate of all HAPs collectively from all coatings, solvent and support materials and cleanup materials employed, in pounds per day. This calculation is summation of each individual HAP emission rate, as determined above in 4.f.

   h. The calculated, controlled VOC emission rate for all coatings, solvent and support materials and cleanup materials, in pounds per day. The controlled, daily VOC emission rate shall be calculated using the overall control efficiency for the control equipment as determined during the most recent emission test that demonstrated that the emissions unit was in compliance. The controlled VOC emission rate is the uncontrolled VOC emission rate multiplied by (1 minus the overall control efficiency, in percentage).

   i. The calculated, controlled emission rate for each individual HAP from all coatings, solvent and support materials and cleanup materials, in pounds per day. The controlled emission rate shall be calculated using the overall control efficiency for the control equipment as determined during the most recent emission test that demonstrated that the emissions unit was in compliance. The controlled emission rate for each individual HAP

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is the uncontrolled emission rate multiplied by (1 minus the overall control efficiency, in percentage).

j. The total controlled emission rate of all HAPs collectively from all coatings, solvent and support materials and cleanup materials employed, in pounds per day. This calculation is summation of each individual HAP controlled emission rate, as determined above in 4.i.

5. The permittee shall collect and record the following information each month for emissions units K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042.

a. The controlled emission rate for each individual HAP from all coatings, solvent and support materials and cleanup materials, in pounds per rolling 12 month period. This calculation is the summation of each daily emission rate, as recorded per Section C.4.i, for the past twelve months and then multiplied by ton/2,000 lbs.

b. The controlled emission rate for all HAPs collectively from all coatings, solvent and support materials and cleanup materials, in pounds per rolling 12 month period. This calculation is the summation of each daily emission rate, as recorded per Section C.4.j, for the past twelve months and then multiplied by ton/2,000 lbs.

c. The controlled VOC emission rate for all coatings, solvent and support materials and cleanup materials, in tons per rolling 12 month period. This calculation is the summation of each daily emission rate, as recorded per Section C.4.h, for the past twelve months and then multiplied by ton/2,000 lbs.

d. The coating usage rate as described in Section B.3 in gallons per month.

e. The solvent usage rate as described in Section B.3 in gallons per month.

6. The permit to install for this emissions unit was evaluated based on the actual 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. The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following table summarizes the results of the modeling from RTO #3:

Compound	TLV ($ug.m^3$)	MAGLC = TLV/42 ($ug.m^3$)	Emission rate (g/s)	Predicted 1-hr max ground level conc. ($ug.m^3$)	MAGLC exceeded (Y/N)
formaldehyde	271	6	0.79	0.93	N

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methanol	262,086	6,240	0.79	0.93	N
acetone	1,187,116	28,264	0.79	0.93	N
MEK	589,775	14,042	0.79	0.93	N
naphthalene	52,429	1,248	0.79	0.93	N
cumene	245,787	5,852	0.79	0.93	N
ethylbenzene	4343,192	10,338	0.79	0.93	N
MIBK	204,826	4,877	0.79	0.93	N
toluene	188,405	4,486	0.79	0.93	N
hexane	1,762,372	41,961	0.79	0.93	N
xylene	434,192	10,338	0.79	0.93	N

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

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

   b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and

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

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

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

   a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);

   b. documentation of its evaluation and determination that the changed emissions unit still satisfied the "Air Toxic Policy"; and

   c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

D. Reporting Requirements

1. The permittee shall submit quarterly summaries of the following records:

   a. A log of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emission unit.

   b. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator does not comply with the temperature limitation specified above.

   c. All periods of time during which the permanent total enclosure was not maintained at the required differential pressure specified above.

   d. A list of all days when the daily VOC emission rate from RTO #3 exceeded 151.8 pounds.

   e. A list of any days when noncomplying coatings were used.

   f. A list of all months when the amount of coatings (including stains, toners, glazes, topcoats and sealers) exceeded 43,196 gallons, and the amount of solvent and support materials exceeded 15,300 gallons.

2. The permittee shall also submit a quarterly deviation report when the total controlled emissions of VOC, individual HAPs, and/or the total aggregate HAPs from RTO #3 exceed the limits listed in A.2.d and A.2.e respectively.

E. Testing Requirements

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

   a Emission Limitation:
   151.8 lbs VOC /day and 27.7 tons VOC per rolling 12 month period from RTO #3

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Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section C.4 and C.5.

b Emission Limitation:
528 lbs/month and 3.17 tons per rolling 12 month period of an individual HAP from RTO #3

Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section C.5.

c Emission Limitation:
1,378 lbs/month and 8.27 tons per rolling 12 month period of all HAPs from RTO #3

Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section C.5.

d Compliance with the VOC content restrictions of each coating, solvent and support material, and cleanup material shall be based upon the use of U.S. EPA Method 24.

e Emission Limitation:
0.8 lb NOx/hr and 3.3 tons NOx/year from the combustion of natural gas in the thermal oxidizer.

Applicable Compliance Method:
The following equation shall be used to determine the hourly emission rate.

E = EF x R x 1/H

where:

E = Emission rate, in lbs/hr

EF = Emission factor (AP-42, Section 1.4) for NOx is 100 lbs/mm cf.

R = Maximum rating of the thermal oxidizer reported to be 7.5 mm Btu/hr.

H = Heating value of the natural gas, in Btu/cf. 1,020 Btu/cf was used in the emission calculation for this permit.

The yearly rate, in tons/year, shall be determined by multiplying the hourly rate (lbs/hr) as calculated above, by (# hrs of operation/year) and (ton/2,000 lbs).

f Emission Limitation:
0.6 lb CO/hr and 2.8 tons CO/year from the combustion of natural gas in the thermal oxidizer.

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Applicable Compliance Method:
The following equation shall be used to determine the hourly emission rate.

E = EF x R x 1/H

where:

E = Emission rate, in lbs/hr

EF = Emission factor (AP-42, Section 1.4) for CO is 84 lbs/mm cf.

R = Maximum rating of the thermal oxidizer reported to be 7.5 mm Btu/hr.

H = Heating value of the natural gas, in Btu/cf. 1,020 Btu/cf was used in the emission calculation for this permit.

The yearly rate (tons/year) shall be determined by multiplying the hourly rate (lbs/hr), as calculated above, by (# hrs of operation/year) and (ton/2,000 lbs).

2. The permittee shall conduct, or have conducted, emission testing for this emission unit in accordance with the following requirements:

   a. The emission testing shall be conducted within 3 months after issuance of this permit.

   b. The emission testing shall be conducted to demonstrate compliance with the VOC capture efficiency and control efficiency requirement specified in Section A.2.a. Emission testing shall also be conducted to establish the average combustion temperature within the thermal incinerator, as specified in Section B.1, and to establish the minimum pressure differential within the permanent total enclosure, as specified in Section B.2.

   c. The test(s) shall be conducted while the emissions units are operating at or near their maximum capacity, unless otherwise specified or approved by the Ohio EPA Northeast District Office.

   d. The capture efficiency shall be determined using Methods 204 through 204F, as specified in 40 CFR part 51, Appendix M, or the permittee may request to use an alternative method or procedure for the determination of capture efficiency in accordance with the U.S. EPA's "Guideline for Determining Capture Efficiency," dated January 9, 1995. (The Ohio EPA will consider the request, including an evaluation of the applicability, necessity, and validity of the alternative, and may approve the use of the alternative if such approval does not contravene any other applicable requirement.)

   e. The control efficiency (i.e., the percent reduction in mass emissions between the inlet and outlet of the control system) shall be determined in accordance with the test methods and procedures specified in OAC rule 3745-21-10 or an approved alternative test protocol.

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The test methods and procedures selected shall be based on a consideration of the diversity of the organic species present and their total concentration, and on a consideration of the potential presence of interfering gases.

f. U.S. EPA Method 24 shall be used, in accordance with OAC rule 3745-21-04(B)(5), to determine the VOC contents for all coatings, solvent and support materials, and cleanup materials used during the performance test(s). If, pursuant to section 4.3 of Method 24, 40 CFR part 60, Appendix A, an owner or operator determines that Method 24 cannot be used for a particular coating, solvent and support material, or cleanup material, the permittee shall so notify the Administrator of the U.S. EPA and shall use formulation data for that coating, solvent and support material, or cleanup material to demonstrate compliance until the U.S. EPA provides alternative analytical procedures or alternative precision statements for Method 24.

g. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Northeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA Northeast District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA Northeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

h. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Northeast District Office within 30 days following completion of the test(s).

F. Miscellaneous Requirements

1. In accordance with the provisions of OAC rule 3745-35-07, the following terms and conditions of this permit to install are federally enforceable: A-F, except C.6, C.7 and C.8.

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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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
K034 - Spray booth 5 of overhead conveyor line 6, located in total permanent enclosure no. 4 and controlled by regenerative thermal oxidizer no. 3..	OAC rule 3745-31-05 (A)(3)	Volatile Organic Compounds (VOC) emissions shall not exceed 151.8 pounds per day and 27.7 TPY. Hazardous Air Pollutant (HAP) emissions shall not exceed 528 pounds per month for an individual HAP and 1,378 pounds per month for combined HAPs. Nitrogen Oxide (NOx) emissions from the combustion of natural gas from the thermal oxidizer shall not exceed 0.8 pound per hour, 3.3 tons per year. Carbon Monoxide (CO) emissions from the combustion of natural gas from the thermal oxidizer shall not exceed 0.6 pound per hour, 2.8 tons per year. The requirements of this rule also include compliance with the requirements of OAC rule 3745-35-07 (B).
	OAC rule 3745-35-07 (B)	See Section A.2.a through A.2.e.
	OAC rule 3745-21-07 (G)(2)	The requirements of this rule are less stringent than the requirements

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	established pursuant to OAC rule 3745-31-05 (A)(3).

2. Additional Terms and Conditions

2.a The permittee shall design enclosure #4 that will house K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042 in such a manner as to function as a permanent total enclosure (PTE) as defined by U.S. EPA Method 204. The use of the PTE, as defined in Reference Method 204, provides for 100% capture efficiency.

2.b The permittee shall install and maintain an incineration system to control the VOC emissions from the permanent total enclosure, PTE #4. The incinerator system shall have a VOC destruction efficiency of at least 99% by weight.

2.c The volatile organic compound (VOC) content of the Coatings (including stains, toners, glazes, topcoats and sealers) and Solvents & Support Materials used by the permittee at this emissions unit shall not exceed the following VOC content:

Coatings	7.5 lbs VOC/gallon
Solvents & Support Materials	9.0 lbs VOC/gallon

2.d Emissions from the Regenerative Thermal Oxidizer (RTO) #3 shall be restricted in such a manner to limit emissions from emissions units K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042 to the following:

i. 27.7 tons VOC per rolling 12 month period;
ii. 3.17 tons per rolling 12 month period of any individual HAP; and
iii. 8.27 tons per rolling 12 month period of total aggregate HAPs.

2.e Emissions from the entire facility shall not exceed the following limits:

i. 83.10 tons VOC per rolling 12 month period;
ii. 9.5 tons per rolling 12 month period of any individual HAP; and
iii. 24.8 tons per rolling 12 month period of total aggregate HAPs.

B. Operational Restrictions

1. The average combustion temperature within RTO #3, for any 3-hour block of time when an associated emissions unit is in operation, shall not be more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the RTO system was in compliance with the destruction efficiency requirement.

2. The permanent total enclosure shall be maintained under negative pressure, at a minimum pressure differential that is not less than the minimum pressure differential (inches of water) established during the most recent emission test that demonstrated the emissions unit was in

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compliance or 0.007 inches of water as established in Method 204, whenever the emissions unit is in operation.

3. The permittee shall limit the total coating and solvent usage for PTE #4 (K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042) as follows:

Coatings (including stains, toners, glazes, topcoats and sealers)	43,196 gallons/month
Solvents & Support Materials	15,300 gallons/month

C. Monitoring and/or Record keeping Requirements

1. The permittee shall install, maintain and operate monitoring devices and a recorder which simultaneously measure and record the pressure inside and outside the permanent total enclosure.

   The monitoring and recording devices shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

   The permittee shall record and maintain the following information on a daily basis:

   a. The difference in pressure between the permanent total enclosure and the surrounding area(s).

   b. A log or record of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

2. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

3. The permittee shall collect and record the following information for each day for RTO #3:

   a. A log of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions units.

   b. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when any of the associated emissions unit was in operation, was more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the incinerator system was in compliance with the destruction efficiency requirement.

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4. The permittee shall collect and record the following information each day for emissions units K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040 , K041 and K042.

   a. The name and identification number of each coating, solvent and support material, and cleanup material, as applied.

   b. The VOC content of each coating, solvent and support material, and cleanup material, as applied, in pounds per gallon.

   c. The number of gallons of each coating, solvent and support material, and cleanup material employed.

   d. The content of each individual HAP (i.e. xylene, toluene, and any other HAP) in each coating, solvent and support material and cleanup material employed, in pounds per gallon.

   e. The total uncontrolled VOC emission rate for all coatings, solvent and support materials, and cleanup materials employed, in pounds per day. This calculation is the summation of the product of (4.b or VOC content in pounds per gallon) times (4.c or number of gallons per day) for each coating, solvent, support material and cleanup material employed.

   f. The total uncontrolled emission rate for each individual HAP from all coatings, solvent and support materials and cleanup materials employed, in pounds per day. This calculation is the summation of the product of (4.d or individual HAP content in pounds per gallon) times (4.c or number of gallons per day) for each coating, solvent, support material and cleanup material employed.

   g. The total uncontrolled emission rate of all HAPs collectively from all coatings, solvent and support materials and cleanup materials employed, in pounds per day. This calculation is summation of each individual HAP emission rate, as determined above in 4.f.

   h. The calculated, controlled VOC emission rate for all coatings, solvent and support materials and cleanup materials, in pounds per day. The controlled, daily VOC emission rate shall be calculated using the overall control efficiency for the control equipment as determined during the most recent emission test that demonstrated that the emissions unit was in compliance. The controlled VOC emission rate is the uncontrolled VOC emission rate multiplied by (1 minus the overall control efficiency, in percentage).

   i. The calculated, controlled emission rate for each individual HAP from all coatings, solvent and support materials and cleanup materials, in pounds per day. The controlled emission rate shall be calculated using the overall control efficiency for the control equipment as determined during the most recent emission test that demonstrated that the emissions unit was in compliance. The controlled emission rate for each individual HAP

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is the uncontrolled emission rate multiplied by (1 minus the overall control efficiency, in percentage).

j. The total controlled emission rate of all HAPs collectively from all coatings, solvent and support materials and cleanup materials employed, in pounds per day. This calculation is summation of each individual HAP controlled emission rate, as determined above in 4.i.

5. The permittee shall collect and record the following information each month for emissions units K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040 , K041 and K042.

a. The controlled emission rate for each individual HAP from all coatings, solvent and support materials and cleanup materials, in pounds per rolling 12 month period. This calculation is the summation of each daily emission rate, as recorded per Section C.4.i, for the past twelve months and then multiplied by ton/2,000 lbs.

b. The controlled emission rate for all HAPs collectively from all coatings, solvent and support materials and cleanup materials, in pounds per rolling 12 month period. This calculation is the summation of each daily emission rate, as recorded per Section C.4.j, for the past twelve months and then multiplied by ton/2,000 lbs.

c. The controlled VOC emission rate for all coatings, solvent and support materials and cleanup materials, in tons per rolling 12 month period. This calculation is the summation of each daily emission rate, as recorded per Section C.4.h, for the past twelve months and then multiplied by ton/2,000 lbs.

d. The coating usage rate as described in Section B.3 in gallons per month.

e. The solvent usage rate as described in Section B.3 in gallons per month.

6. The permit to install for this emissions unit was evaluated based on the actual 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. The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following table summarizes the results of the modeling from RTO #3:

Compound	TLV ($ug.m^3$)	MAGLC = TLV/42 ($ug.m^3$)	Emission rate (g/s)	Predicted 1-hr max ground level conc. ($ug.m^3$)	MAGLC exceeded (Y/N)
formaldehyde	271	6	0.79	0.93	N

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methanol	262,086	6,240	0.79	0.93	N
acetone	1,187,116	28,264	0.79	0.93	.N
MEK	589,775	14,042	0.79	0.93	N
naphthalene	52,429	1,248	0.79	0.93	N
cumene	245,787	5,852	0.79	0.93	N
ethylbenzene	4343,192	10,338	0.79	0.93	N
MIBK	204,826	4,877	0.79	0.93	N
toluene	188,405	4,486	0.79	0.93	N
hexane	1,762,372	41,961	0.79	0.93	N
xylene	434,192	10,338	0.79	0.93	N

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

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

   b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and

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

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

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

   a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);

   b. documentation of its evaluation and determination that the changed emissions unit still satisfied the "Air Toxic Policy"; and

   c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

D. Reporting Requirements

1. The permittee shall submit quarterly summaries of the following records:

   a. A log of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emission unit.

   b. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator does not comply with the temperature limitation specified above.

   c. All periods of time during which the permanent total enclosure was not maintained at the required differential pressure specified above.

   d. A list of all days when the daily VOC emission rate from RTO #3 exceeded 151.8 pounds.

   e. A list of any days when noncomplying coatings were used.

   f. A list of all months when the amount of coatings (including stains, toners, glazes, topcoats and sealers) exceeded 43,196 gallons, and the amount of solvent and support materials exceeded 15,300 gallons.

2. The permittee shall also submit a quarterly deviation report when the total controlled emissions of VOC, individual HAPs, and/or the total aggregate HAPs from RTO #3 exceed the limits listed in A.2.d and A.2.e respectively.

E. Testing Requirements

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

   a Emission Limitation:
   151.8 lbs VOC /day and 27.7 tons VOC per rolling 12 month period from RTO #3

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Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section C.4 and C.5.

b Emission Limitation:
528 lbs/month and 3.17 tons per rolling 12 month period of an individual HAP from RTO #3

Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section C.5.

c Emission Limitation:
1,378 lbs/month and 8.27 tons per rolling 12 month period of all HAPs from RTO #3

Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section C.5.

d Compliance with the VOC content restrictions of each coating, solvent and support material, and cleanup material shall be based upon the use of U.S. EPA Method 24.

e Emission Limitation:
0.8 lb NOx/hr and 3.3 tons NOx/year from the combustion of natural gas in the thermal oxidizer.

Applicable Compliance Method:
The following equation shall be used to determine the hourly emission rate.

E = EF x R x 1/H

where:

E = Emission rate, in lbs/hr

EF = Emission factor (AP-42, Section 1.4) for NOx is 100 lbs/mm cf.

R = Maximum rating of the thermal oxidizer reported to be 7.5 mm Btu/hr.

H = Heating value of the natural gas, in Btu/cf. 1,020 Btu/cf was used in the emission calculation for this permit.

The yearly rate, in tons/year, shall be determined by multiplying the hourly rate (lbs/hr) as calculated above, by (# hrs of operation/year) and (ton/2,000 lbs).

f Emission Limitation:
0.6 lb CO/hr and 2.8 tons CO/year from the combustion of natural gas in the thermal oxidizer.

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Applicable Compliance Method:
The following equation shall be used to determine the hourly emission rate.

E = EF x R x 1/H

where:

E = Emission rate, in lbs/hr

EF = Emission factor (AP-42, Section 1.4) for CO is 84 lbs/mmcf.

R = Maximum rating of the thermal oxidizer reported to be 7.5 mmBtu/hr.

H = Heating value of the natural gas, in Btu/cf. 1,020 Btu/cf was used in the emission calculation for this permit.

The yearly rate (tons/year) shall be determined by multiplying the hourly rate (lbs/hr), as calculated above, by (# hrs of operation/year) and (ton/2,000 lbs).

2. The permittee shall conduct, or have conducted, emission testing for this emission unit in accordance with the following requirements:

   a. The emission testing shall be conducted within 3 months after issuance of this permit.

   b. The emission testing shall be conducted to demonstrate compliance with the VOC capture efficiency and control efficiency requirement specified in Section A.2.a. Emission testing shall also be conducted to establish the average combustion temperature within the thermal incinerator, as specified in Section B.1, and to establish the minimum pressure differential within the permanent total enclosure, as specified in Section B.2.

   c. The test(s) shall be conducted while the emissions units are operating at or near their maximum capacity, unless otherwise specified or approved by the Ohio EPA Northeast District Office.

   d. The capture efficiency shall be determined using Methods 204 through 204F, as specified in 40 CFR part 51, Appendix M, or the permittee may request to use an alternative method or procedure for the determination of capture efficiency in accordance with the U.S. EPA's "Guideline for Determining Capture Efficiency," dated January 9, 1995. (The Ohio EPA will consider the request, including an evaluation of the applicability, necessity, and validity of the alternative, and may approve the use of the alternative if such approval does not contravene any other applicable requirement.)

   e. The control efficiency (i.e., the percent reduction in mass emissions between the inlet and outlet of the control system) shall be determined in accordance with the test methods and procedures specified in OAC rule 3745-21-10 or an approved alternative test protocol.

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The test methods and procedures selected shall be based on a consideration of the diversity of the organic species present and their total concentration, and on a consideration of the potential presence of interfering gases.

f. U.S. EPA Method 24 shall be used, in accordance with OAC rule 3745-21-04(B)(5), to determine the VOC contents for all coatings, solvent and support materials, and cleanup materials used during the performance test(s). If, pursuant to section 4.3 of Method 24, 40 CFR part 60, Appendix A, an owner or operator determines that Method 24 cannot be used for a particular coating, solvent and support material, or cleanup material, the permittee shall so notify the Administrator of the U.S. EPA and shall use formulation data for that coating, solvent and support material, or cleanup material to demonstrate compliance until the U.S. EPA provides alternative analytical procedures or alternative precision statements for Method 24.

g. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Northeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA Northeast District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA Northeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

h. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Northeast District Office within 30 days following completion of the test(s).

F. Miscellaneous Requirements

1. In accordance with the provisions of OAC rule 3745-35-07, the following terms and conditions of this permit to install are federally enforceable: A-F, except C.6, C.7 and C.8.

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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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
K035 - Spray booth 6 of overhead conveyor line 6, located in total permanent enclosure no. 4 and controlled by regenerative thermal oxidizer no. 3.	OAC rule 3745-31-05 (A)(3)	Volatile Organic Compounds (VOC) emissions shall not exceed 151.8 pounds per day and 27.7 TPY. Hazardous Air Pollutant (HAP) emissions shall not exceed 528 pounds per month for an individual HAP and 1,378 pounds per month for combined HAPs. Nitrogen Oxide (NOx) emissions from the combustion of natural gas from the thermal oxidizer shall not exceed 0.8 pound per hour, 3.3 tons per year. Carbon Monoxide (CO) emissions from the combustion of natural gas from the thermal oxidizer shall not exceed 0.6 pound per hour, 2.8 tons per year. The requirements of this rule also include compliance with the requirements of OAC rule 3745-35-07 (B).
	OAC rule 3745-35-07 (B)	See Section A.2.a through A.2.e.
	OAC rule 3745-21-07 (G)(2)	The requirements of this rule are less stringent than the requirements

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	established pursuant to OAC rule 3745-31-05 (A)(3).

2. Additional Terms and Conditions

2.a The permittee shall design enclosure #4 that will house K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042 in such a manner as to function as a permanent total enclosure (PTE) as defined by U.S. EPA Method 204. The use of the PTE, as defined in Reference Method 204, provides for 100% capture efficiency.

2.b The permittee shall install and maintain an incineration system to control the VOC emissions from the permanent total enclosure, PTE #4. The incinerator system shall have a VOC destruction efficiency of at least 99% by weight.

2.c The volatile organic compound (VOC) content of the Coatings (including stains, toners, glazes, topcoats and sealers) and Solvents & Support Materials used by the permittee at this emissions unit shall not exceed the following VOC content:

Coatings	7.5 lbs VOC/gallon
Solvents & Support Materials	9.0 lbs VOC/gallon

2.d Emissions from the Regenerative Thermal Oxidizer (RTO) #3 shall be restricted in such a manner to limit emissions from emissions units K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042 to the following:

i. 27.7 tons VOC per rolling 12 month period;
ii. 3.17 tons per rolling 12 month period of any individual HAP; and
iii. 8.27 tons per rolling 12 month period of total aggregate HAPs.

2.e Emissions from the entire facility shall not exceed the following limits:

i. 83.10 tons VOC per rolling 12 month period;
ii. 9.5 tons per rolling 12 month period of any individual HAP; and
iii. 24.8 tons per rolling 12 month period of total aggregate HAPs.

B. Operational Restrictions

1. The average combustion temperature within RTO #3, for any 3-hour block of time when an associated emissions unit is in operation, shall not be more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the RTO system was in compliance with the destruction efficiency requirement.

2. The permanent total enclosure shall be maintained under negative pressure, at a minimum pressure differential that is not less than the minimum pressure differential (inches of water) established during the most recent emission test that demonstrated the emissions unit was in

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compliance or 0.007 inches of water as established in Method 204, whenever the emissions unit is in operation.

3. The permittee shall limit the total coating and solvent usage for PTE #4 (K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042) as follows:

Coatings (including stains, toners, glazes, topcoats and sealers)	43,196 gallons/month
Solvents & Support Materials	15,300 gallons/month

C. Monitoring and/or Record keeping Requirements

1. The permittee shall install, maintain and operate monitoring devices and a recorder which simultaneously measure and record the pressure inside and outside the permanent total enclosure.

   The monitoring and recording devices shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

   The permittee shall record and maintain the following information on a daily basis:

   a. The difference in pressure between the permanent total enclosure and the surrounding area(s).

   b. A log or record of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

2. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

3. The permittee shall collect and record the following information for each day for RTO #3:

   a. A log of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions units.

   b. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when any of the associated emissions unit was in operation, was more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the incinerator system was in compliance with the destruction efficiency requirement.

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4. The permittee shall collect and record the following information each day for emissions units K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040 , K041 and K042.

   a. The name and identification number of each coating, solvent and support material, and cleanup material, as applied.

   b. The VOC content of each coating, solvent and support material, and cleanup material, as applied, in pounds per gallon.

   c. The number of gallons of each coating, solvent and support material, and cleanup material employed.

   d. The content of each individual HAP (i.e. xylene, toluene, and any other HAP) in each coating, solvent and support material and cleanup material employed, in pounds per gallon.

   e. The total uncontrolled VOC emission rate for all coatings, solvent and support materials, and cleanup materials employed, in pounds per day. This calculation is the summation of the product of (4.b or VOC content in pounds per gallon) times (4.c or number of gallons per day) for each coating, solvent, support material and cleanup material employed.

   f. The total uncontrolled emission rate for each individual HAP from all coatings, solvent and support materials and cleanup materials employed, in pounds per day. This calculation is the summation of the product of (4.d or individual HAP content in pounds per gallon) times (4.c or number of gallons per day) for each coating, solvent, support material and cleanup material employed.

   g. The total uncontrolled emission rate of all HAPs collectively from all coatings, solvent and support materials and cleanup materials employed, in pounds per day. This calculation is summation of each individual HAP emission rate, as determined above in 4.f.

   h. The calculated, controlled VOC emission rate for all coatings, solvent and support materials and cleanup materials, in pounds per day. The controlled, daily VOC emission rate shall be calculated using the overall control efficiency for the control equipment as determined during the most recent emission test that demonstrated that the emissions unit was in compliance. The controlled VOC emission rate is the uncontrolled VOC emission rate multiplied by (1 minus the overall control efficiency, in percentage).

   i. The calculated, controlled emission rate for each individual HAP from all coatings, solvent and support materials and cleanup materials, in pounds per day. The controlled emission rate shall be calculated using the overall control efficiency for the control equipment as determined during the most recent emission test that demonstrated that the emissions unit was in compliance. The controlled emission rate for each individual HAP

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is the uncontrolled emission rate multiplied by (1 minus the overall control efficiency, in percentage).

j. The total controlled emission rate of all HAPs collectively from all coatings, solvent and support materials and cleanup materials employed, in pounds per day. This calculation is summation of each individual HAP controlled emission rate, as determined above in 4.i.

5. The permittee shall collect and record the following information each month for emissions units K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042.

a. The controlled emission rate for each individual HAP from all coatings, solvent and support materials and cleanup materials, in pounds per rolling 12 month period. This calculation is the summation of each daily emission rate, as recorded per Section C.4.i, for the past twelve months and then multiplied by ton/2,000 lbs.

b. The controlled emission rate for all HAPs collectively from all coatings, solvent and support materials and cleanup materials, in pounds per rolling 12 month period. This calculation is the summation of each daily emission rate, as recorded per Section C.4.j, for the past twelve months and then multiplied by ton/2,000 lbs.

c. The controlled VOC emission rate for all coatings, solvent and support materials and cleanup materials, in tons per rolling 12 month period. This calculation is the summation of each daily emission rate, as recorded per Section C.4.h, for the past twelve months and then multiplied by ton/2,000 lbs.

d. The coating usage rate as described in Section B.3 in gallons per month.

e. The solvent usage rate as described in Section B.3 in gallons per month.

6. The permit to install for this emissions unit was evaluated based on the actual 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. The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following table summarizes the results of the modeling from RTO #3:

Compound	TLV ($ug.m^3$)	MAGLC = TLV/42 ($ug.m^3$)	Emission rate (g/s)	Predicted 1-hr max ground level conc. ($ug.m^3$)	MAGLC exceeded (Y/N)
formaldehyde	271	6	0.79	0.93	N

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methanol	262,086	6,240	0.79	0.93	N
acetone	1,187,116	28,264	0.79	0.93	N
MEK	589,775	14,042	0.79	0.93	N
naphthalene	52,429	1,248	0.79	0.93	N
cumene	245,787	5,852	0.79	0.93	N
ethylbenzene	4343,192	10,338	0.79	0.93	N
MIBK	204,826	4,877	0.79	0.93	N
toluene	188,405	4,486	0.79	0.93	N
hexane	1,762,372	41,961	0.79	0.93	N
xylene	434,192	10,338	0.79	0.93	N

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

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

   b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and

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

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

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

   a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);

   b. documentation of its evaluation and determination that the changed emissions unit still satisfied the "Air Toxic Policy"; and

   c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

D. Reporting Requirements

1. The permittee shall submit quarterly summaries of the following records:

   a. A log of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emission unit.

   b. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator does not comply with the temperature limitation specified above.

   c. All periods of time during which the permanent total enclosure was not maintained at the required differential pressure specified above.

   d. A list of all days when the daily VOC emission rate from RTO #3 exceeded 151.8 pounds.

   e. A list of any days when noncomplying coatings were used.

   f. A list of all months when the amount of coatings (including stains, toners, glazes, topcoats and sealers) exceeded 43,196 gallons, and the amount of solvent and support materials exceeded 15,300 gallons.

2. The permittee shall also submit a quarterly deviation report when the total controlled emissions of VOC, individual HAPs, and/or the total aggregate HAPs from RTO #3 exceed the limits listed in A.2.d and A.2.e respectively.

E. Testing Requirements

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

   a Emission Limitation:
   151.8 lbs VOC /day and 27.7 tons VOC per rolling 12 month period from RTO #3

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Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section C.4 and C.5.

b Emission Limitation:
528 lbs/month and 3.17 tons per rolling 12 month period of an individual HAP from RTO #3

Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section C.5.

c Emission Limitation:
1,378 lbs/month and 8.27 tons per rolling 12 month period of all HAPs from RTO #3

Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section C.5.

d Compliance with the VOC content restrictions of each coating, solvent and support material, and cleanup material shall be based upon the use of U.S. EPA Method 24.

e Emission Limitation:
0.8 lb NOx/hr and 3.3 tons NOx/year from the combustion of natural gas in the thermal oxidizer.

Applicable Compliance Method:
The following equation shall be used to determine the hourly emission rate.

E = EF x R x 1/H

where:

E = Emission rate, in lbs/hr

EF = Emission factor (AP-42, Section 1.4) for NOx is 100 lbs/mm cf.

R = Maximum rating of the thermal oxidizer reported to be 7.5 mm Btu/hr.

H = Heating value of the natural gas, in Btu/cf. 1,020 Btu/cf was used in the emission calculation for this permit.

The yearly rate, in tons/year, shall be determined by multiplying the hourly rate (lbs/hr) as calculated above, by (# hrs of operation/year) and (ton/2,000 lbs).

f Emission Limitation:
0.6 lb CO/hr and 2.8 tons CO/year from the combustion of natural gas in the thermal oxidizer.

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Applicable Compliance Method:
The following equation shall be used to determine the hourly emission rate.

E = EF x R x 1/H

where:

E = Emission rate, in lbs/hr

EF = Emission factor (AP-42, Section 1.4) for CO is 84 lbs/mm cf.

R = Maximum rating of the thermal oxidizer reported to be 7.5 mm Btu/hr.

H = Heating value of the natural gas, in Btu/cf. 1,020 Btu/cf was used in the emission calculation for this permit.

The yearly rate (tons/year) shall be determined by multiplying the hourly rate (lbs/hr), as calculated above, by (# hrs of operation/year) and (ton/2,000 lbs).

2. The permittee shall conduct, or have conducted, emission testing for this emission unit in accordance with the following requirements:

   a. The emission testing shall be conducted within 3 months after issuance of this permit.

   b. The emission testing shall be conducted to demonstrate compliance with the VOC capture efficiency and control efficiency requirement specified in Section A.2.a. Emission testing shall also be conducted to establish the average combustion temperature within the thermal incinerator, as specified in Section B.1, and to establish the minimum pressure differential within the permanent total enclosure, as specified in Section B.2.

   c. The test(s) shall be conducted while the emissions units are operating at or near their maximum capacity, unless otherwise specified or approved by the Ohio EPA Northeast District Office.

   d. The capture efficiency shall be determined using Methods 204 through 204F, as specified in 40 CFR part 51, Appendix M, or the permittee may request to use an alternative method or procedure for the determination of capture efficiency in accordance with the U.S. EPA's "Guideline for Determining Capture Efficiency," dated January 9, 1995. (The Ohio EPA will consider the request, including an evaluation of the applicability, necessity, and validity of the alternative, and may approve the use of the alternative if such approval does not contravene any other applicable requirement.)

   e. The control efficiency (i.e., the percent reduction in mass emissions between the inlet and outlet of the control system) shall be determined in accordance with the test methods and procedures specified in OAC rule 3745-21-10 or an approved alternative test protocol.

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The test methods and procedures selected shall be based on a consideration of the diversity of the organic species present and their total concentration, and on a consideration of the potential presence of interfering gases.

f. U.S. EPA Method 24 shall be used, in accordance with OAC rule 3745-21-04(B)(5), to determine the VOC contents for all coatings, solvent and support materials, and cleanup materials used during the performance test(s). If, pursuant to section 4.3 of Method 24, 40 CFR part 60, Appendix A, an owner or operator determines that Method 24 cannot be used for a particular coating, solvent and support material, or cleanup material, the permittee shall so notify the Administrator of the U.S. EPA and shall use formulation data for that coating, solvent and support material, or cleanup material to demonstrate compliance until the U.S. EPA provides alternative analytical procedures or alternative precision statements for Method 24.

g. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Northeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA Northeast District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA Northeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

h. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Northeast District Office within 30 days following completion of the test(s).

F. Miscellaneous Requirements

1. In accordance with the provisions of OAC rule 3745-35-07, the following terms and conditions of this permit to install are federally enforceable: A-F, except C.6, C.7 and C.8.

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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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
K036 - Spray booth 7 of overhead conveyor line 6, located in total permanent enclosure no. 4 and controlled by regenerative thermal oxidizer no. 3.	OAC rule 3745-31-05 (A)(3)	Volatile Organic Compounds (VOC) emissions shall not exceed 151.8 pounds per day and 27.7 TPY. Hazardous Air Pollutant (HAP) emissions shall not exceed 528 pounds per month for an individual HAP and 1,378 pounds per month for combined HAPs. Nitrogen Oxide (NOx) emissions from the combustion of natural gas from the thermal oxidizer shall not exceed 0.8 pound per hour, 3.3 tons per year. Carbon Monoxide (CO) emissions from the combustion of natural gas from the thermal oxidizer shall not exceed 0.6 pound per hour, 2.8 tons per year. The requirements of this rule also include compliance with the requirements of OAC rule 3745-35-07 (B).
	OAC rule 3745-35-07 (B)	See Section A.2.a through A.2.e.
	OAC rule 3745-21-07 (G)(2)	The requirements of this rule are less stringent than the requirements

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	established pursuant to OAC rule 3745-31-05 (A)(3).

2. Additional Terms and Conditions

2.a The permittee shall design enclosure #4 that will house K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042 in such a manner as to function as a permanent total enclosure (PTE) as defined by U.S. EPA Method 204. The use of the PTE, as defined in Reference Method 204, provides for 100% capture efficiency.

2.b The permittee shall install and maintain an incineration system to control the VOC emissions from the permanent total enclosure, PTE #4. The incinerator system shall have a VOC destruction efficiency of at least 99% by weight.

2.c The volatile organic compound (VOC) content of the Coatings (including stains, toners, glazes, topcoats and sealers) and Solvents & Support Materials used by the permittee at this emissions unit shall not exceed the following VOC content:

Coatings	7.5 lbs VOC/gallon
Solvents & Support Materials	9.0 lbs VOC/gallon

2.d Emissions from the Regenerative Thermal Oxidizer (RTO) #3 shall be restricted in such a manner to limit emissions from emissions units K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040 , K041 and K042 to the following:

i. 27.7 tons VOC per rolling 12 month period;
ii. 3.17 tons per rolling 12 month period of any individual HAP; and
iii. 8.27 tons per rolling 12 month period of total aggregate HAPs.

2.e Emissions from the entire facility shall not exceed the following limits:

i. 83.10 tons VOC per rolling 12 month period;
ii. 9.5 tons per rolling 12 month period of any individual HAP; and
iii. 24.8 tons per rolling 12 month period of total aggregate HAPs.

B. Operational Restrictions

1. The average combustion temperature within RTO #3, for any 3-hour block of time when an associated emissions unit is in operation, shall not be more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the RTO system was in compliance with the destruction efficiency requirement.

2. The permanent total enclosure shall be maintained under negative pressure, at a minimum pressure differential that is not less than the minimum pressure differential (inches of water) established during the most recent emission test that demonstrated the emissions unit was in

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compliance or 0.007 inches of water as established in Method 204, whenever the emissions unit is in operation.

3. The permittee shall limit the total coating and solvent usage for PTE #4 (K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042) as follows:

Coatings (including stains, toners, glazes, topcoats and sealers)	43,196 gallons/month
Solvents & Support Materials	15,300 gallons/month

C. Monitoring and/or Record keeping Requirements

1. The permittee shall install, maintain and operate monitoring devices and a recorder which simultaneously measure and record the pressure inside and outside the permanent total enclosure.

   The monitoring and recording devices shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

   The permittee shall record and maintain the following information on a daily basis:

   a. The difference in pressure between the permanent total enclosure and the surrounding area(s).

   b. A log or record of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

2. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

3. The permittee shall collect and record the following information for each day for RTO #3:

   a. A log of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions units.

   b. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when any of the associated emissions unit was in operation, was more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the incinerator system was in compliance with the destruction efficiency requirement.

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4. The permittee shall collect and record the following information each day for emissions units K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042.

   a. The name and identification number of each coating, solvent and support material, and cleanup material, as applied.

   b. The VOC content of each coating, solvent and support material, and cleanup material, as applied, in pounds per gallon and in pounds per gallon excluding water and exempt solvents.

   c. The number of gallons of each coating, solvent and support material, and cleanup material employed.

   d. The content of each individual HAP (i.e. xylene, toluene, and any other HAP) in each coating, solvent and support material and cleanup material employed, in pounds per gallon.

   e. The total uncontrolled VOC emission rate for all coatings, solvent and support materials, and cleanup materials employed, in pounds per day. This calculation is the summation of the product of (4.b or VOC content in pounds per gallon) times (4.c or number of gallons per day) for each coating, solvent, support material and cleanup material employed.

   f. The total uncontrolled emission rate for each individual HAP from all coatings, solvent and support materials and cleanup materials employed, in pounds per day. This calculation is the summation of the product of (4.d or individual HAP content in pounds per gallon) times (4.c or number of gallons per day) for each coating, solvent, support material and cleanup material employed.

   g. The total uncontrolled emission rate of all HAPs collectively from all coatings, solvent and support materials and cleanup materials employed, in pounds per day. This calculation is summation of each individual HAP emission rate, as determined above in 4.f.

   h. The calculated, controlled VOC emission rate for all coatings, solvent and support materials and cleanup materials, in pounds per day. The controlled, daily VOC emission rate shall be calculated using the overall control efficiency for the control equipment as determined during the most recent emission test that demonstrated that the emissions unit was in compliance. The controlled VOC emission rate is the uncontrolled VOC emission rate multiplied by (1 minus the overall control efficiency, in percentage).

   i. The calculated, controlled emission rate for each individual HAP from all coatings, solvent and support materials and cleanup materials, in pounds per day. The controlled emission rate shall be calculated using the overall control efficiency for the control equipment as determined during the most recent emission test that demonstrated that the emissions unit was in compliance. The controlled emission rate for each individual HAP

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is the uncontrolled emission rate multiplied by (1 minus the overall control efficiency, in percentage).

j. The total controlled emission rate of all HAPs collectively from all coatings, solvent and support materials and cleanup materials employed, in pounds per day. This calculation is summation of each individual HAP controlled emission rate, as determined above in 4.i.

5. The permittee shall collect and record the following information each month for emissions units K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042.

a. The controlled emission rate for each individual HAP from all coatings, solvent and support materials and cleanup materials, in pounds per rolling 12 month period. This calculation is the summation of each daily emission rate, as recorded per Section C.4.i, for the past twelve months and then multiplied by ton/2,000 lbs.

b. The controlled emission rate for all HAPs collectively from all coatings, solvent and support materials and cleanup materials, in pounds per rolling 12 month period. This calculation is the summation of each daily emission rate, as recorded per Section C.4.j, for the past twelve months and then multiplied by ton/2,000 lbs.

c. The controlled VOC emission rate for all coatings, solvent and support materials and cleanup materials, in tons per rolling 12 month period. This calculation is the summation of each daily emission rate, as recorded per Section C.4.h, for the past twelve months and then multiplied by ton/2,000 lbs.

d. The coating usage rate as described in Section B.3 in gallons per month.

e. The solvent usage rate as described in Section B.3 in gallons per month.

6. The permit to install for this emissions unit was evaluated based on the actual 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. The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following table summarizes the results of the modeling from RTO #3:

Compound	TLV ($ug.m^3$)	MAGLC = TLV/42 ($ug.m^3$)	Emission rate (g/s)	Predicted 1-hr max ground level conc. ($ug.m^3$)	MAGLC exceeded (Y/N)
formaldehyde	271	6	0.79	0.93	N

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methanol	262,086	6,240	0.79	0.93	N
acetone	1,187,116	28,264	0.79	0.93	N
MEK	589,775	14,042	0.79	0.93	N
naphthalene	52,429	1,248	0.79	0.93	N
cumene	245,787	5,852	0.79	0.93	N
ethylbenzene	4343,192	10,338	0.79	0.93	N
MIBK	204,826	4,877	0.79	0.93	N
toluene	188,405	4,486	0.79	0.93	N
hexane	1,762,372	41,961	0.79	0.93	N
xylene	434,192	10,338	0.79	0.93	N

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

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

   b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and

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

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

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

   a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);

   b. documentation of its evaluation and determination that the changed emissions unit still satisfied the "Air Toxic Policy"; and

   c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

D. Reporting Requirements

1. The permittee shall submit quarterly summaries of the following records:

   a. A log of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emission unit.

   b. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator does not comply with the temperature limitation specified above.

   c. All periods of time during which the permanent total enclosure was not maintained at the required differential pressure specified above.

   d. A list of all days when the daily VOC emission rate from RTO #3 exceeded 151.8 pounds.

   e. A list of any days when noncomplying coatings were used.

   f. A list of all months when the amount of coatings (including stains, toners, glazes, topcoats and sealers) exceeded 43,196 gallons, and the amount of solvent and support materials exceeded 15,300 gallons.

2. The permittee shall also submit a quarterly deviation report when the total controlled emissions of VOC, individual HAPs, and/or the total aggregate HAPs from RTO #3 exceed the limits listed in A.2.d and A.2.e respectively.

E. Testing Requirements

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

   a Emission Limitation:
   151.8 lbs VOC /day and 27.7 tons VOC per rolling 12 month period from RTO #3

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Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section C.4 and C.5.

b Emission Limitation:
528 lbs/month and 3.17 tons per rolling 12 month period of an individual HAP from RTO #3

Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section C.5.

c Emission Limitation:
1,378 lbs/month and 8.27 tons per rolling 12 month period of all HAPs from RTO #3

Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section C.5.

d Compliance with the VOC content restrictions of each coating, solvent and support material, and cleanup material shall be based upon the use of U.S. EPA Method 24.

e Emission Limitation:
0.8 lb NOx/hr and 3.3 tons NOx/year from the combustion of natural gas in the thermal oxidizer.

Applicable Compliance Method:
The following equation shall be used to determine the hourly emission rate.

E = EF x R x 1/H

where:

E = Emission rate, in lbs/hr

EF = Emission factor (AP-42, Section 1.4) for NOx is 100 lbs/mm cf.

R = Maximum rating of the thermal oxidizer reported to be 7.5 mm Btu/hr.

H = Heating value of the natural gas, in Btu/cf. 1,020 Btu/cf was used in the emission calculation for this permit.

The yearly rate, in tons/year, shall be determined by multiplying the hourly rate (lbs/hr) as calculated above, by (# hrs of operation/year) and (ton/2,000 lbs).

f Emission Limitation:
0.6 lb CO/hr and 2.8 tons CO/year from the combustion of natural gas in the thermal oxidizer.

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Applicable Compliance Method:
The following equation shall be used to determine the hourly emission rate.

E = EF x R x 1/H

where:

E = Emission rate, in lbs/hr

EF = Emission factor (AP-42, Section 1.4) for CO is 84 lbs/mm cf.

R = Maximum rating of the thermal oxidizer reported to be 7.5 mm Btu/hr.

H = Heating value of the natural gas, in Btu/cf. 1,020 Btu/cf was used in the emission calculation for this permit.

The yearly rate (tons/year) shall be determined by multiplying the hourly rate (lbs/hr), as calculated above, by (# hrs of operation/year) and (ton/2,000 lbs).

2. The permittee shall conduct, or have conducted, emission testing for this emission unit in accordance with the following requirements:

   a. The emission testing shall be conducted within 3 months after issuance of this permit.

   b. The emission testing shall be conducted to demonstrate compliance with the VOC capture efficiency and control efficiency requirement specified in Section A.2.a. Emission testing shall also be conducted to establish the average combustion temperature within the thermal incinerator, as specified in Section B.1, and to establish the minimum pressure differential within the permanent total enclosure, as specified in Section B.2.

   c. The test(s) shall be conducted while the emissions units are operating at or near their maximum capacity, unless otherwise specified or approved by the Ohio EPA Northeast District Office.

   d. The capture efficiency shall be determined using Methods 204 through 204F, as specified in 40 CFR part 51, Appendix M, or the permittee may request to use an alternative method or procedure for the determination of capture efficiency in accordance with the U.S. EPA's "Guideline for Determining Capture Efficiency," dated January 9, 1995. (The Ohio EPA will consider the request, including an evaluation of the applicability, necessity, and validity of the alternative, and may approve the use of the alternative if such approval does not contravene any other applicable requirement.)

   e. The control efficiency (i.e., the percent reduction in mass emissions between the inlet and outlet of the control system) shall be determined in accordance with the test methods and procedures specified in OAC rule 3745-21-10 or an approved alternative test protocol.

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The test methods and procedures selected shall be based on a consideration of the diversity of the organic species present and their total concentration, and on a consideration of the potential presence of interfering gases.

f. U.S. EPA Method 24 shall be used, in accordance with OAC rule 3745-21-04(B)(5), to determine the VOC contents for all coatings, solvent and support materials, and cleanup materials used during the performance test(s). If, pursuant to section 4.3 of Method 24, 40 CFR part 60, Appendix A, an owner or operator determines that Method 24 cannot be used for a particular coating, solvent and support material, or cleanup material, the permittee shall so notify the Administrator of the U.S. EPA and shall use formulation data for that coating, solvent and support material, or cleanup material to demonstrate compliance until the U.S. EPA provides alternative analytical procedures or alternative precision statements for Method 24.

g. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Northeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA Northeast District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA Northeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

h. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Northeast District Office within 30 days following completion of the test(s).

F. Miscellaneous Requirements

1. In accordance with the provisions of OAC rule 3745-35-07, the following terms and conditions of this permit to install are federally enforceable: A-F, except C.6, C.7 and C.8.

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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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
K037 - Spray booth 8 of overhead conveyor line 6, located in total permanent enclosure no. 4 and controlled by regenerative thermal oxidizer no. 3.	OAC rule 3745-31-05 (A)(3)	Volatile Organic Compounds (VOC) emissions shall not exceed 151.8 pounds per day and 27.7 TPY. Hazardous Air Pollutant (HAP) emissions shall not exceed 528 pounds per month for an individual HAP and 1,378 pounds per month for combined HAPs. Nitrogen Oxide (NOx) emissions from the combustion of natural gas from the thermal oxidizer shall not exceed 0.8 pound per hour, 3.3 tons per year. Carbon Monoxide (CO) emissions from the combustion of natural gas from the thermal oxidizer shall not exceed 0.6 pound per hour, 2.8 tons per year. The requirements of this rule also include compliance with the requirements of OAC rule 3745-35-07 (B).
	OAC rule 3745-35-07 (B)	See Section A.2.a through A.2.e.
	OAC rule 3745-21-07 (G)(2)	The requirements of this rule are less stringent than the requirements

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	established pursuant to OAC rule 3745-31-05 (A)(3).

2. Additional Terms and Conditions

2.a The permittee shall design enclosure #4 that will house K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042 in such a manner as to function as a permanent total enclosure (PTE) as defined by U.S. EPA Method 204. The use of the PTE, as defined in Reference Method 204, provides for 100% capture efficiency.

2.b The permittee shall install and maintain an incineration system to control the VOC emissions from the permanent total enclosure, PTE #4. The incinerator system shall have a VOC destruction efficiency of at least 99% by weight.

2.c The volatile organic compound (VOC) content of the Coatings (including stains, toners, glazes, topcoats and sealers) and Solvents & Support Materials used by the permittee at this emissions unit shall not exceed the following VOC content:

Coatings	7.5 lbs VOC/gallon
Solvents & Support Materials	9.0 lbs VOC/gallon

2.d Emissions from the Regenerative Thermal Oxidizer (RTO) #3 shall be restricted in such a manner to limit emissions from emissions units K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042 to the following:

i. 27.7 tons VOC per rolling 12 month period;
ii. 3.17 tons per rolling 12 month period of any individual HAP; and
iii. 8.27 tons per rolling 12 month period of total aggregate HAPs.

2.e Emissions from the entire facility shall not exceed the following limits:

i. 83.10 tons VOC per rolling 12 month period;
ii. 9.5 tons per rolling 12 month period of any individual HAP; and
iii. 24.8 tons per rolling 12 month period of total aggregate HAPs.

B. Operational Restrictions

1. The average combustion temperature within RTO #3, for any 3-hour block of time when an associated emissions unit is in operation, shall not be more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the RTO system was in compliance with the destruction efficiency requirement.

2. The permanent total enclosure shall be maintained under negative pressure, at a minimum pressure differential that is not less than the minimum pressure differential (inches of water) established during the most recent emission test that demonstrated the emissions unit was in

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compliance or 0.007 inches of water as established in Method 204, whenever the emissions unit is in operation.

3. The permittee shall limit the total coating and solvent usage for PTE #4 (K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042) as follows:

Coatings (including stains, toners, glazes, topcoats and sealers)	43,196 gallons/month
Solvents & Support Materials	15,300 gallons/month

C. Monitoring and/or Record keeping Requirements

1. The permittee shall install, maintain and operate monitoring devices and a recorder which simultaneously measure and record the pressure inside and outside the permanent total enclosure.

   The monitoring and recording devices shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

   The permittee shall record and maintain the following information on a daily basis:

   a. The difference in pressure between the permanent total enclosure and the surrounding area(s).

   b. A log or record of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

2. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

3. The permittee shall collect and record the following information for each day for RTO #3:

   a. A log of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions units.

   b. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when any of the associated emissions unit was in operation, was more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the incinerator system was in compliance with the destruction efficiency requirement.

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4. The permittee shall collect and record the following information each day for emissions units K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042.

   a. The name and identification number of each coating, solvent and support material, and cleanup material, as applied.

   b. The VOC content of each coating, solvent and support material, and cleanup material, as applied, in pounds per gallon.

   c. The number of gallons of each coating, solvent and support material, and cleanup material employed.

   d. The content of each individual HAP (i.e. xylene, toluene, and any other HAP) in each coating, solvent and support material and cleanup material employed, in pounds per gallon.

   e. The total uncontrolled VOC emission rate for all coatings, solvent and support materials, and cleanup materials employed, in pounds per day. This calculation is the summation of the product of (4.b or VOC content in pounds per gallon) times (4.c or number of gallons per day) for each coating, solvent, support material and cleanup material employed.

   f. The total uncontrolled emission rate for each individual HAP from all coatings, solvent and support materials and cleanup materials employed, in pounds per day. This calculation is the summation of the product of (4.d or individual HAP content in pounds per gallon) times (4.c or number of gallons per day) for each coating, solvent, support material and cleanup material employed.

   g. The total uncontrolled emission rate of all HAPs collectively from all coatings, solvent and support materials and cleanup materials employed, in pounds per day. This calculation is summation of each individual HAP emission rate, as determined above in 4.f.

   h. The calculated, controlled VOC emission rate for all coatings, solvent and support materials and cleanup materials, in pounds per day. The controlled, daily VOC emission rate shall be calculated using the overall control efficiency for the control equipment as determined during the most recent emission test that demonstrated that the emissions unit was in compliance. The controlled VOC emission rate is the uncontrolled VOC emission rate multiplied by (1 minus the overall control efficiency, in percentage).

   i. The calculated, controlled emission rate for each individual HAP from all coatings, solvent and support materials and cleanup materials, in pounds per day. The controlled emission rate shall be calculated using the overall control efficiency for the control equipment as determined during the most recent emission test that demonstrated that the emissions unit was in compliance. The controlled emission rate for each individual HAP

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is the uncontrolled emission rate multiplied by (1 minus the overall control efficiency, in percentage).

j. The total controlled emission rate of all HAPs collectively from all coatings, solvent and support materials and cleanup materials employed, in pounds per day. This calculation is summation of each individual HAP controlled emission rate, as determined above in 4.i.

5. The permittee shall collect and record the following information each month for emissions units K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042.

a. The controlled emission rate for each individual HAP from all coatings, solvent and support materials and cleanup materials, in pounds per rolling 12 month period. This calculation is the summation of each daily emission rate, as recorded per Section C.4.i, for the past twelve months and then multiplied by ton/2,000 lbs.

b. The controlled emission rate for all HAPs collectively from all coatings, solvent and support materials and cleanup materials, in pounds per rolling 12 month period. This calculation is the summation of each daily emission rate, as recorded per Section C.4.j, for the past twelve months and then multiplied by ton/2,000 lbs.

c. The controlled VOC emission rate for all coatings, solvent and support materials and cleanup materials, in tons per rolling 12 month period. This calculation is the summation of each daily emission rate, as recorded per Section C.4.h, for the past twelve months and then multiplied by ton/2,000 lbs.

d. The coating usage rate as described in Section B.3 in gallons per month.

e. The solvent usage rate as described in Section B.3 in gallons per month.

6. The permit to install for this emissions unit was evaluated based on the actual 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. The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following table summarizes the results of the modeling from RTO #3:

Compound	TLV ($ug.m^3$)	MAGLC = TLV/42 ($ug.m^3$)	Emission rate (g/s)	Predicted 1-hr max ground level conc. ($ug.m^3$)	MAGLC exceeded (Y/N)
formaldehyde	271	6	0.79	0.93	N

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methanol	262,086	6,240	0.79	0.93	N
acetone	1,187,116	28,264	0.79	0.93	N
MEK	589,775	14,042	0.79	0.93	N
naphthalene	52,429	1,248	0.79	0.93	N
cumene	245,787	5,852	0.79	0.93	N
ethylbenzene	4343,192	10,338	0.79	0.93	N
MIBK	204,826	4,877	0.79	0.93	N
toluene	188,405	4,486	0.79	0.93	N
hexane	1,762,372	41,961	0.79	0.93	N
xylene	434,192	10,338	0.79	0.93	N

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

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

   b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and

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

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

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

   a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);

   b. documentation of its evaluation and determination that the changed emissions unit still satisfied the "Air Toxic Policy"; and

   c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

D. Reporting Requirements

1. The permittee shall submit quarterly summaries of the following records:

   a. A log of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emission unit.

   b. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator does not comply with the temperature limitation specified above.

   c. All periods of time during which the permanent total enclosure was not maintained at the required differential pressure specified above.

   d. A list of all days when the daily VOC emission rate from RTO #3 exceeded 151.8 pounds.

   e. A list of any days when noncomplying coatings were used.

   f. A list of all months when the amount of coatings (including stains, toners, glazes, topcoats and sealers) exceeded 43,196 gallons, and the amount of solvent and support materials exceeded 15,300 gallons.

2. The permittee shall also submit a quarterly deviation report when the total controlled emissions of VOC, individual HAPs, and/or the total aggregate HAPs from RTO #3 exceed the limits listed in A.2.d and A.2.e respectively.

E. Testing Requirements

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

   a Emission Limitation:
   151.8 lbs VOC /day and 27.7 tons VOC per rolling 12 month period from RTO #3

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Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section C.4 and C.5.

b Emission Limitation:
528 lbs/month and 3.17 tons per rolling 12 month period of an individual HAP from RTO #3

Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section C.5.

c Emission Limitation:
1,378 lbs/month and 8.27 tons per rolling 12 month period of all HAPs from RTO #3

Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section C.5.

d Compliance with the VOC content restrictions of each coating, solvent and support material, and cleanup material shall be based upon the use of U.S. EPA Method 24.

e Emission Limitation:
0.8 lb NOx/hr and 3.3 tons NOx/year from the combustion of natural gas in the thermal oxidizer.

Applicable Compliance Method:
The following equation shall be used to determine the hourly emission rate.

E = EF x R x 1/H

where:

E = Emission rate, in lbs/hr

EF = Emission factor (AP-42, Section 1.4) for NOx is 100 lbs/mm cf.

R = Maximum rating of the thermal oxidizer reported to be 7.5 mm Btu/hr.

H = Heating value of the natural gas, in Btu/cf. 1,020 Btu/cf was used in the emission calculation for this permit.

The yearly rate, in tons/year, shall be determined by multiplying the hourly rate (lbs/hr) as calculated above, by (# hrs of operation/year) and (ton/2,000 lbs).

f Emission Limitation:
0.6 lb CO/hr and 2.8 tons CO/year from the combustion of natural gas in the thermal oxidizer.

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Applicable Compliance Method:
The following equation shall be used to determine the hourly emission rate.

E = EF x R x 1/H

where:

E = Emission rate, in lbs/hr

EF = Emission factor (AP-42, Section 1.4) for CO is 84 lbs/mm cf.

R = Maximum rating of the thermal oxidizer reported to be 7.5 mm Btu/hr.

H = Heating value of the natural gas, in Btu/cf. 1,020 Btu/cf was used in the emission calculation for this permit.

The yearly rate (tons/year) shall be determined by multiplying the hourly rate (lbs/hr), as calculated above, by (# hrs of operation/year) and (ton/2,000 lbs).

2. The permittee shall conduct, or have conducted, emission testing for this emission unit in accordance with the following requirements:

   a. The emission testing shall be conducted within 3 months after issuance of this permit.

   b. The emission testing shall be conducted to demonstrate compliance with the VOC capture efficiency and control efficiency requirement specified in Section A.2.a. Emission testing shall also be conducted to establish the average combustion temperature within the thermal incinerator, as specified in Section B.1, and to establish the minimum pressure differential within the permanent total enclosure, as specified in Section B.2.

   c. The test(s) shall be conducted while the emissions units are operating at or near their maximum capacity, unless otherwise specified or approved by the Ohio EPA Northeast District Office.

   d. The capture efficiency shall be determined using Methods 204 through 204F, as specified in 40 CFR part 51, Appendix M, or the permittee may request to use an alternative method or procedure for the determination of capture efficiency in accordance with the U.S. EPA's "Guideline for Determining Capture Efficiency," dated January 9, 1995. (The Ohio EPA will consider the request, including an evaluation of the applicability, necessity, and validity of the alternative, and may approve the use of the alternative if such approval does not contravene any other applicable requirement.)

   e. The control efficiency (i.e., the percent reduction in mass emissions between the inlet and outlet of the control system) shall be determined in accordance with the test methods and procedures specified in OAC rule 3745-21-10 or an approved alternative test protocol.

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The test methods and procedures selected shall be based on a consideration of the diversity of the organic species present and their total concentration, and on a consideration of the potential presence of interfering gases.

f. U.S. EPA Method 24 shall be used, in accordance with OAC rule 3745-21-04(B)(5), to determine the VOC contents for all coatings, solvent and support materials, and cleanup materials used during the performance test(s). If, pursuant to section 4.3 of Method 24, 40 CFR part 60, Appendix A, an owner or operator determines that Method 24 cannot be used for a particular coating, solvent and support material, or cleanup material, the permittee shall so notify the Administrator of the U.S. EPA and shall use formulation data for that coating, solvent and support material, or cleanup material to demonstrate compliance until the U.S. EPA provides alternative analytical procedures or alternative precision statements for Method 24.

g. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Northeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA Northeast District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA Northeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

h. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Northeast District Office within 30 days following completion of the test(s).

F. Miscellaneous Requirements

1. In accordance with the provisions of OAC rule 3745-35-07, the following terms and conditions of this permit to install are federally enforceable: A-F, except C.6, C.7 and C.8.

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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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
K038 - Spray booth 9 of overhead conveyor line 6, located in total permanent enclosure no. 4 and controlled by regenerative thermal oxidizer no. 3.	OAC rule 3745-31-05 (A)(3)	Volatile Organic Compounds (VOC) emissions shall not exceed 151.8 pounds per day and 27.7 TPY. Hazardous Air Pollutant (HAP) emissions shall not exceed 528 pounds per month for an individual HAP and 1,378 pounds per month for combined HAPs. Nitrogen Oxide (NOx) emissions from the combustion of natural gas from the thermal oxidizer shall not exceed 0.8 pound per hour, 3.3 tons per year. Carbon Monoxide (CO) emissions from the combustion of natural gas from the thermal oxidizer shall not exceed 0.6 pound per hour, 2.8 tons per year. The requirements of this rule also include compliance with the requirements of OAC rule 3745-35-07 (B).
	OAC rule 3745-35-07 (B)	See Section A.2.a through A.2.e.
	OAC rule 3745-21-07 (G)(2)	The requirements of this rule are less stringent than the requirements

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	established pursuant to OAC rule 3745-31-05 (A)(3).

2. Additional Terms and Conditions

2.a The permittee shall design enclosure #4 that will house K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042 in such a manner as to function as a permanent total enclosure (PTE) as defined by U.S. EPA Method 204. The use of the PTE, as defined in Reference Method 204, provides for 100% capture efficiency.

2.b The permittee shall install and maintain an incineration system to control the VOC emissions from the permanent total enclosure, PTE #4. The incinerator system shall have a VOC destruction efficiency of at least 99% by weight.

2.c The volatile organic compound (VOC) content of the Coatings (including stains, toners, glazes, topcoats and sealers) and Solvents & Support Materials used by the permittee at this emissions unit shall not exceed the following VOC content:

Coatings	7.5 lbs VOC/gallon
Solvents & Support Materials	9.0 lbs VOC/gallon

2.d Emissions from the Regenerative Thermal Oxidizer (RTO) #3 shall be restricted in such a manner to limit emissions from emissions units K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042 to the following:

i. 27.7 tons VOC per rolling 12 month period;
ii. 3.17 tons per rolling 12 month period of any individual HAP; and
iii. 8.27 tons per rolling 12 month period of total aggregate HAPs.

2.e Emissions from the entire facility shall not exceed the following limits:

i. 83.10 tons VOC per rolling 12 month period;
ii. 9.5 tons per rolling 12 month period of any individual HAP; and
iii. 24.8 tons per rolling 12 month period of total aggregate HAPs.

B. Operational Restrictions

1. The average combustion temperature within RTO #3, for any 3-hour block of time when an associated emissions unit is in operation, shall not be more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the RTO system was in compliance with the destruction efficiency requirement.
2. The permanent total enclosure shall be maintained under negative pressure, at a minimum pressure differential that is not less than the minimum pressure differential (inches of water) established during the most recent emission test that demonstrated the emissions unit was in

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compliance or 0.007 inches of water as established in Method 204, whenever the emissions unit is in operation.

3. The permittee shall limit the total coating and solvent usage for PTE #4 (K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042) as follows:

Coatings (including stains, toners, glazes, topcoats and sealers)	43,196 gallons/month
Solvents & Support Materials	15,300 gallons/month

C. Monitoring and/or Record keeping Requirements

1. The permittee shall install, maintain and operate monitoring devices and a recorder which simultaneously measure and record the pressure inside and outside the permanent total enclosure.

   The monitoring and recording devices shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

   The permittee shall record and maintain the following information on a daily basis:

   a. The difference in pressure between the permanent total enclosure and the surrounding area(s).

   b. A log or record of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

2. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

3. The permittee shall collect and record the following information for each day for RTO #3:

   a. A log of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions units.

   b. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when any of the associated emissions unit was in operation, was more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the incinerator system was in compliance with the destruction efficiency requirement.

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4. The permittee shall collect and record the following information each day for emissions units K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042.

   a. The name and identification number of each coating, solvent and support material, and cleanup material, as applied.

   b. The VOC content of each coating, solvent and support material, and cleanup material, as applied, in pounds per gallon.

   c. The number of gallons of each coating, solvent and support material, and cleanup material employed.

   d. The content of each individual HAP (i.e. xylene, toluene, and any other HAP) in each coating, solvent and support material and cleanup material employed, in pounds per gallon.

   e. The total uncontrolled VOC emission rate for all coatings, solvent and support materials, and cleanup materials employed, in pounds per day. This calculation is the summation of the product of (4.b or VOC content in pounds per gallon) times (4.c or number of gallons per day) for each coating, solvent, support material and cleanup material employed.

   f. The total uncontrolled emission rate for each individual HAP from all coatings, solvent and support materials and cleanup materials employed, in pounds per day. This calculation is the summation of the product of (4.d or individual HAP content in pounds per gallon) times (4.c or number of gallons per day) for each coating, solvent, support material and cleanup material employed.

   g. The total uncontrolled emission rate of all HAPs collectively from all coatings, solvent and support materials and cleanup materials employed, in pounds per day. This calculation is summation of each individual HAP emission rate, as determined above in 4.f.

   h. The calculated, controlled VOC emission rate for all coatings, solvent and support materials and cleanup materials, in pounds per day. The controlled, daily VOC emission rate shall be calculated using the overall control efficiency for the control equipment as determined during the most recent emission test that demonstrated that the emissions unit was in compliance. The controlled VOC emission rate is the uncontrolled VOC emission rate multiplied by (1 minus the overall control efficiency, in percentage).

   i. The calculated, controlled emission rate for each individual HAP from all coatings, solvent and support materials and cleanup materials, in pounds per day. The controlled emission rate shall be calculated using the overall control efficiency for the control equipment as determined during the most recent emission test that demonstrated that the emissions unit was in compliance. The controlled emission rate for each individual HAP

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is the uncontrolled emission rate multiplied by (1 minus the overall control efficiency, in percentage).

j. The total controlled emission rate of all HAPs collectively from all coatings, solvent and support materials and cleanup materials employed, in pounds per day. This calculation is summation of each individual HAP controlled emission rate, as determined above in 4.i.

5. The permittee shall collect and record the following information each month for emissions units K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042.

a. The controlled emission rate for each individual HAP from all coatings, solvent and support materials and cleanup materials, in pounds per rolling 12 month period. This calculation is the summation of each daily emission rate, as recorded per Section C.4.i, for the past twelve months and then multiplied by ton/2,000 lbs.

b. The controlled emission rate for all HAPs collectively from all coatings, solvent and support materials and cleanup materials, in pounds per rolling 12 month period. This calculation is the summation of each daily emission rate, as recorded per Section C.4.j, for the past twelve months and then multiplied by ton/2,000 lbs.

c. The controlled VOC emission rate for all coatings, solvent and support materials and cleanup materials, in tons per rolling 12 month period. This calculation is the summation of each daily emission rate, as recorded per Section C.4.h, for the past twelve months and then multiplied by ton/2,000 lbs.

d. The coating usage rate as described in Section B.3 in gallons per month.

e. The solvent usage rate as described in Section B.3 in gallons per month.

6. The permit to install for this emissions unit was evaluated based on the actual 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. The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following table summarizes the results of the modeling from RTO #3:

Compound	TLV ($ug.m^3$)	MAGLC = TLV/42 ($ug.m^3$)	Emission rate (g/s)	Predicted 1-hr max ground level conc. ($ug.m^3$)	MAGLC exceeded (Y/N)
formaldehyde	271	6	0.79	0.93	N

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methanol	262,086	6,240	0.79	0.93	N
acetone	1,187,116	28,264	0.79	0.93	N
MEK	589,775	14,042	0.79	0.93	N
naphthalene	52,429	1,248	0.79	0.93	N
cumene	245,787	5,852	0.79	0.93	N
ethylbenzene	4343,192	10,338	0.79	0.93	N
MIBK	204,826	4,877	0.79	0.93	N
toluene	188,405	4,486	0.79	0.93	N
hexane	1,762,372	41,961	0.79	0.93	N
xylene	434,192	10,338	0.79	0.93	N

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

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

   b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and

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

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

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

   a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);

   b. documentation of its evaluation and determination that the changed emissions unit still satisfied the "Air Toxic Policy"; and

   c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

D. Reporting Requirements

1. The permittee shall submit quarterly summaries of the following records:

   a. A log of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emission unit.

   b. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator does not comply with the temperature limitation specified above.

   c. All periods of time during which the permanent total enclosure was not maintained at the required differential pressure specified above.

   d. A list of all days when the daily VOC emission rate from RTO #3 exceeded 151.8 pounds.

   e. A list of any days when noncomplying coatings were used.

   f. A list of all months when the amount of coatings (including stains, toners, glazes, topcoats and sealers) exceeded 43,196 gallons, and the amount of solvent and support materials exceeded 15,300 gallons.

2. The permittee shall also submit a quarterly deviation report when the total controlled emissions of VOC, individual HAPs, and/or the total aggregate HAPs from RTO #3 exceed the limits listed in A.2.d and A.2.e respectively.

E. Testing Requirements

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

   a Emission Limitation:
   151.8 lbs VOC /day and 27.7 tons VOC per rolling 12 month period from RTO #3

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Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section C.4 and C.5.

b Emission Limitation:
528 lbs/month and 3.17 tons per rolling 12 month period of an individual HAP from RTO #3

Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section C.5.

c Emission Limitation:
1,378 lbs/month and 8.27 tons per rolling 12 month period of all HAPs from RTO #3

Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section C.5.

d Compliance with the VOC content restrictions of each coating, solvent and support material, and cleanup material shall be based upon the use of U.S. EPA Method 24.

e Emission Limitation:
0.8 lb NOx/hr and 3.3 tons NOx/year from the combustion of natural gas in the thermal oxidizer.

Applicable Compliance Method:
The following equation shall be used to determine the hourly emission rate.

E = EF x R x 1/H

where:

E = Emission rate, in lbs/hr

EF = Emission factor (AP-42, Section 1.4) for NOx is 100 lbs/mm cf.

R = Maximum rating of the thermal oxidizer reported to be 7.5 mm Btu/hr.

H = Heating value of the natural gas, in Btu/cf. 1,020 Btu/cf was used in the emission calculation for this permit.

The yearly rate, in tons/year, shall be determined by multiplying the hourly rate (lbs/hr) as calculated above, by (# hrs of operation/year) and (ton/2,000 lbs).

f Emission Limitation:
0.6 lb CO/hr and 2.8 tons CO/year from the combustion of natural gas in the thermal oxidizer.

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Applicable Compliance Method:
The following equation shall be used to determine the hourly emission rate.

E = EF x R x 1/H

where:

E = Emission rate, in lbs/hr

EF = Emission factor (AP-42, Section 1.4) for CO is 84 lbs/mm cf.

R = Maximum rating of the thermal oxidizer reported to be 7.5 mm Btu/hr.

H = Heating value of the natural gas, in Btu/cf. 1,020 Btu/cf was used in the emission calculation for this permit.

The yearly rate (tons/year) shall be determined by multiplying the hourly rate (lbs/hr), as calculated above, by (# hrs of operation/year) and (ton/2,000 lbs).

2. The permittee shall conduct, or have conducted, emission testing for this emission unit in accordance with the following requirements:

   a. The emission testing shall be conducted within 3 months after issuance of this permit.

   b. The emission testing shall be conducted to demonstrate compliance with the VOC capture efficiency and control efficiency requirement specified in Section A.2.a. Emission testing shall also be conducted to establish the average combustion temperature within the thermal incinerator, as specified in Section B.1, and to establish the minimum pressure differential within the permanent total enclosure, as specified in Section B.2.

   c. The test(s) shall be conducted while the emissions units are operating at or near their maximum capacity, unless otherwise specified or approved by the Ohio EPA Northeast District Office.

   d. The capture efficiency shall be determined using Methods 204 through 204F, as specified in 40 CFR part 51, Appendix M, or the permittee may request to use an alternative method or procedure for the determination of capture efficiency in accordance with the U.S. EPA's "Guideline for Determining Capture Efficiency," dated January 9, 1995. (The Ohio EPA will consider the request, including an evaluation of the applicability, necessity, and validity of the alternative, and may approve the use of the alternative if such approval does not contravene any other applicable requirement.)

   e. The control efficiency (i.e., the percent reduction in mass emissions between the inlet and outlet of the control system) shall be determined in accordance with the test methods and procedures specified in OAC rule 3745-21-10 or an approved alternative test protocol.

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The test methods and procedures selected shall be based on a consideration of the diversity of the organic species present and their total concentration, and on a consideration of the potential presence of interfering gases.

f. U.S. EPA Method 24 shall be used, in accordance with OAC rule 3745-21-04(B)(5), to determine the VOC contents for all coatings, solvent and support materials, and cleanup materials used during the performance test(s). If, pursuant to section 4.3 of Method 24, 40 CFR part 60, Appendix A, an owner or operator determines that Method 24 cannot be used for a particular coating, solvent and support material, or cleanup material, the permittee shall so notify the Administrator of the U.S. EPA and shall use formulation data for that coating, solvent and support material, or cleanup material to demonstrate compliance until the U.S. EPA provides alternative analytical procedures or alternative precision statements for Method 24.

g. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Northeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA Northeast District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA Northeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

h. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Northeast District Office within 30 days following completion of the test(s).

F. Miscellaneous Requirements

1. In accordance with the provisions of OAC rule 3745-35-07, the following terms and conditions of this permit to install are federally enforceable: A-F, except C.6, C.7 and C.8.

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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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
K039 - Cefla 6**,** located in total permanent enclosure no. 4 and controlled by regenerative thermal oxidizer no. 3.	OAC rule 3745-31-05 (A)(3)	Volatile Organic Compounds (VOC) emissions shall not exceed 151.8 pounds per day and 27.7 TPY. Hazardous Air Pollutant (HAP) emissions shall not exceed 528 pounds per month for an individual HAP and 1,378 pounds per month for combined HAPs. Nitrogen Oxide (NOx) emissions from the combustion of natural gas from the thermal oxidizer shall not exceed 0.8 pound per hour, 3.3 tons per year. Carbon Monoxide (CO) emissions from the combustion of natural gas from the thermal oxidizer shall not exceed 0.6 pound per hour, 2.8 tons per year. The requirements of this rule also include compliance with the requirements of OAC rule 3745-35-07 (B).
	OAC rule 3745-35-07 (B)	See Section A.2.a through A.2.e.
	OAC rule 3745-21-07 (G)(2)	The requirements of this rule are less stringent than the requirements

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	established pursuant to OAC rule 3745-31-05 (A)(3).

2. Additional Terms and Conditions

2.a The permittee shall design enclosure #4 that will house K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042 in such a manner as to function as a permanent total enclosure (PTE) as defined by U.S. EPA Method 204. The use of the PTE, as defined in Reference Method 204, provides for 100% capture efficiency.

2.b The permittee shall install and maintain an incineration system to control the VOC emissions from the permanent total enclosure, PTE #4. The incinerator system shall have a VOC destruction efficiency of at least 99% by weight.

2.c The volatile organic compound (VOC) content of the Coatings (including stains, toners, glazes, topcoats and sealers) and Solvents & Support Materials used by the permittee at this emissions unit shall not exceed the following VOC content:

Coatings	7.5 lbs VOC/gallon
Solvents & Support Materials	9.0 lbs VOC/gallon

2.d Emissions from the Regenerative Thermal Oxidizer (RTO) #3 shall be restricted in such a manner to limit emissions from emissions units K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042 to the following:

i. 27.7 tons VOC per rolling 12 month period;
ii. 3.17 tons per rolling 12 month period of any individual HAP; and
iii. 8.27 tons per rolling 12 month period of total aggregate HAPs.

2.e Emissions from the entire facility shall not exceed the following limits:

i. 83.10 tons VOC per rolling 12 month period;
ii. 9.5 tons per rolling 12 month period of any individual HAP; and
iii. 24.8 tons per rolling 12 month period of total aggregate HAPs.

B. Operational Restrictions

1. The average combustion temperature within RTO #3, for any 3-hour block of time when an associated emissions unit is in operation, shall not be more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the RTO system was in compliance with the destruction efficiency requirement.

2. The permanent total enclosure shall be maintained under negative pressure, at a minimum pressure differential that is not less than the minimum pressure differential (inches of water) established during the most recent emission test that demonstrated the emissions unit was in

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compliance or 0.007 inches of water as established in Method 204, whenever the emissions unit is in operation.

3. The permittee shall limit the total coating and solvent usage for PTE #4 (K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042) as follows:

Coatings (including stains, toners, glazes, topcoats and sealers)	43,196 gallons/month
Solvents & Support Materials	15,300 gallons/month

C. Monitoring and/or Record keeping Requirements

1. The permittee shall install, maintain and operate monitoring devices and a recorder which simultaneously measure and record the pressure inside and outside the permanent total enclosure.

   The monitoring and recording devices shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

   The permittee shall record and maintain the following information on a daily basis:

   a. The difference in pressure between the permanent total enclosure and the surrounding area(s).

   b. A log or record of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

2. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

3. The permittee shall collect and record the following information for each day for RTO #3:

   a. A log of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions units.

   b. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when any of the associated emissions unit was in operation, was more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the incinerator system was in compliance with the destruction efficiency requirement.

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4. The permittee shall collect and record the following information each day for emissions units K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042.

   a. The name and identification number of each coating, solvent and support material, and cleanup material, as applied.

   b. The VOC content of each coating, solvent and support material, and cleanup material, as applied, in pounds per gallon.

   c. The number of gallons of each coating, solvent and support material, and cleanup material employed.

   d. The content of each individual HAP (i.e. xylene, toluene, and any other HAP) in each coating, solvent and support material and cleanup material employed, in pounds per gallon.

   e. The total uncontrolled VOC emission rate for all coatings, solvent and support materials, and cleanup materials employed, in pounds per day. This calculation is the summation of the product of (4.b or VOC content in pounds per gallon) times (4.c or number of gallons per day) for each coating, solvent, support material and cleanup material employed.

   f. The total uncontrolled emission rate for each individual HAP from all coatings, solvent and support materials and cleanup materials employed, in pounds per day. This calculation is the summation of the product of (4.d or individual HAP content in pounds per gallon) times (4.c or number of gallons per day) for each coating, solvent, support material and cleanup material employed.

   g. The total uncontrolled emission rate of all HAPs collectively from all coatings, solvent and support materials and cleanup materials employed, in pounds per day. This calculation is summation of each individual HAP emission rate, as determined above in 4.f.

   h. The calculated, controlled VOC emission rate for all coatings, solvent and support materials and cleanup materials, in pounds per day. The controlled, daily VOC emission rate shall be calculated using the overall control efficiency for the control equipment as determined during the most recent emission test that demonstrated that the emissions unit was in compliance. The controlled VOC emission rate is the uncontrolled VOC emission rate multiplied by (1 minus the overall control efficiency, in percentage).

   i. The calculated, controlled emission rate for each individual HAP from all coatings, solvent and support materials and cleanup materials, in pounds per day. The controlled emission rate shall be calculated using the overall control efficiency for the control equipment as determined during the most recent emission test that demonstrated that the emissions unit was in compliance. The controlled emission rate for each individual HAP

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is the uncontrolled emission rate multiplied by (1 minus the overall control efficiency, in percentage).

j. The total controlled emission rate of all HAPs collectively from all coatings, solvent and support materials and cleanup materials employed, in pounds per day. This calculation is summation of each individual HAP controlled emission rate, as determined above in 4.i.

5. The permittee shall collect and record the following information each month for emissions units K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042.

a. The controlled emission rate for each individual HAP from all coatings, solvent and support materials and cleanup materials, in pounds per rolling 12 month period. This calculation is the summation of each daily emission rate, as recorded per Section C.4.i, for the past twelve months and then multiplied by ton/2,000 lbs.

b. The controlled emission rate for all HAPs collectively from all coatings, solvent and support materials and cleanup materials, in pounds per rolling 12 month period. This calculation is the summation of each daily emission rate, as recorded per Section C.4.j, for the past twelve months and then multiplied by ton/2,000 lbs.

c. The controlled VOC emission rate for all coatings, solvent and support materials and cleanup materials, in tons per rolling 12 month period. This calculation is the summation of each daily emission rate, as recorded per Section C.4.h, for the past twelve months and then multiplied by ton/2,000 lbs.

d. The coating usage rate as described in Section B.3 in gallons per month.

e. The solvent usage rate as described in Section B.3 in gallons per month.

6. The permit to install for this emissions unit was evaluated based on the actual 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. The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following table summarizes the results of the modeling from RTO #3:

Compound	TLV ($ug.m^3$)	MAGLC = TLV/42 ($ug.m^3$)	Emission rate (g/s)	Predicted 1-hr max ground level conc. ($ug.m^3$)	MAGLC exceeded (Y/N)
formaldehyde	271	6	0.79	0.93	N

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methanol	262,086	6,240	0.79	0.93	N
acetone	1,187,116	28,264	0.79	0.93	N
MEK	589,775	14,042	0.79	0.93	N
naphthalene	52,429	1,248	0.79	0.93	N
cumene	245,787	5,852	0.79	0.93	N
ethylbenzene	4343,192	10,338	0.79	0.93	N
MIBK	204,826	4,877	0.79	0.93	N
toluene	188,405	4,486	0.79	0.93	N
hexane	1,762,372	41,961	0.79	0.93	N
xylene	434,192	10,338	0.79	0.93	N

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

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

   b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and

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

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

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

   a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);

   b. documentation of its evaluation and determination that the changed emissions unit still satisfied the "Air Toxic Policy"; and

   c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

D. Reporting Requirements

1. The permittee shall submit quarterly summaries of the following records:

   a. A log of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emission unit.

   b. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator does not comply with the temperature limitation specified above.

   c. All periods of time during which the permanent total enclosure was not maintained at the required differential pressure specified above.

   d. A list of all days when the daily VOC emission rate from RTO #3 exceeded 151.8 pounds.

   e. A list of any days when noncomplying coatings were used.

   f. A list of all months when the amount of coatings (including stains, toners, glazes, topcoats and sealers) exceeded 43,196 gallons, and the amount of solvent and support materials exceeded 15,300 gallons.

2. The permittee shall also submit a quarterly deviation report when the total controlled emissions of VOC, individual HAPs, and/or the total aggregate HAPs from RTO #3 exceed the limits listed in A.2.d and A.2.e respectively.

E. Testing Requirements

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

   a Emission Limitation:
   151.8 lbs VOC /day and 27.7 tons VOC per rolling 12 month period from RTO #3

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Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section C.4 and C.5.

b Emission Limitation:
528 lbs/month and 3.17 tons per rolling 12 month period of an individual HAP from RTO #3

Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section C.5.

c Emission Limitation:
1,378 lbs/month and 8.27 tons per rolling 12 month period of all HAPs from RTO #3

Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section C.5.

d Compliance with the VOC content restrictions of each coating, solvent and support material, and cleanup material shall be based upon the use of U.S. EPA Method 24.

e Emission Limitation:
0.8 lb NOx/hr and 3.3 tons NOx/year from the combustion of natural gas in the thermal oxidizer.

Applicable Compliance Method:
The following equation shall be used to determine the hourly emission rate.

E = EF x R x 1/H

where:

E = Emission rate, in lbs/hr

EF = Emission factor (AP-42, Section 1.4) for NOx is 100 lbs/mm cf.

R = Maximum rating of the thermal oxidizer reported to be 7.5 mm Btu/hr.

H = Heating value of the natural gas, in Btu/cf. 1,020 Btu/cf was used in the emission calculation for this permit.

The yearly rate, in tons/year, shall be determined by multiplying the hourly rate (lbs/hr) as calculated above, by (# hrs of operation/year) and (ton/2,000 lbs).

f Emission Limitation:
0.6 lb CO/hr and 2.8 tons CO/year from the combustion of natural gas in the thermal oxidizer.

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Applicable Compliance Method:
The following equation shall be used to determine the hourly emission rate.

E = EF x R x 1/H

where:

E = Emission rate, in lbs/hr

EF = Emission factor (AP-42, Section 1.4) for CO is 84 lbs/mm cf.

R = Maximum rating of the thermal oxidizer reported to be 7.5 mm Btu/hr.

H = Heating value of the natural gas, in Btu/cf. 1,020 Btu/cf was used in the emission calculation for this permit.

The yearly rate (tons/year) shall be determined by multiplying the hourly rate (lbs/hr), as calculated above, by (# hrs of operation/year) and (ton/2,000 lbs).

2. The permittee shall conduct, or have conducted, emission testing for this emission unit in accordance with the following requirements:

   a. The emission testing shall be conducted within 3 months after issuance of this permit.

   b. The emission testing shall be conducted to demonstrate compliance with the VOC capture efficiency and control efficiency requirement specified in Section A.2.a. Emission testing shall also be conducted to establish the average combustion temperature within the thermal incinerator, as specified in Section B.1, and to establish the minimum pressure differential within the permanent total enclosure, as specified in Section B.2.

   c. The test(s) shall be conducted while the emissions units are operating at or near their maximum capacity, unless otherwise specified or approved by the Ohio EPA Northeast District Office.

   d. The capture efficiency shall be determined using Methods 204 through 204F, as specified in 40 CFR part 51, Appendix M, or the permittee may request to use an alternative method or procedure for the determination of capture efficiency in accordance with the U.S. EPA's "Guideline for Determining Capture Efficiency," dated January 9, 1995. (The Ohio EPA will consider the request, including an evaluation of the applicability, necessity, and validity of the alternative, and may approve the use of the alternative if such approval does not contravene any other applicable requirement.)

   e. The control efficiency (i.e., the percent reduction in mass emissions between the inlet and outlet of the control system) shall be determined in accordance with the test methods and procedures specified in OAC rule 3745-21-10 or an approved alternative test protocol.

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The test methods and procedures selected shall be based on a consideration of the diversity of the organic species present and their total concentration, and on a consideration of the potential presence of interfering gases.

f. U.S. EPA Method 24 shall be used, in accordance with OAC rule 3745-21-04(B)(5), to determine the VOC contents for all coatings, solvent and support materials, and cleanup materials used during the performance test(s). If, pursuant to section 4.3 of Method 24, 40 CFR part 60, Appendix A, an owner or operator determines that Method 24 cannot be used for a particular coating, solvent and support material, or cleanup material, the permittee shall so notify the Administrator of the U.S. EPA and shall use formulation data for that coating, solvent and support material, or cleanup material to demonstrate compliance until the U.S. EPA provides alternative analytical procedures or alternative precision statements for Method 24.

g. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Northeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA Northeast District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA Northeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

h. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Northeast District Office within 30 days following completion of the test(s).

F. Miscellaneous Requirements

1. In accordance with the provisions of OAC rule 3745-35-07, the following terms and conditions of this permit to install are federally enforceable: A-F, except C.6, C.7 and C.8.

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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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
K040 - Repair booth 1**,** located in total permanent enclosure no. 4 and controlled by regenerative thermal oxidizer no. 3.	OAC rule 3745-31-05 (A)(3)	Volatile Organic Compounds (VOC) emissions shall not exceed 151.8 pounds per day and 27.7 TPY. Hazardous Air Pollutant (HAP) emissions shall not exceed 528 pounds per month for an individual HAP and 1,378 pounds per month for combined HAPs. Nitrogen Oxide (NOx) emissions from the combustion of natural gas from the thermal oxidizer shall not exceed 0.8 pound per hour, 3.3 tons per year. Carbon Monoxide (CO) emissions from the combustion of natural gas from the thermal oxidizer shall not exceed 0.6 pound per hour, 2.8 tons per year. The requirements of this rule also include compliance with the requirements of OAC rule 3745-35-07 (B).
	OAC rule 3745-35-07 (B)	See Section A.2.a through A.2.e.
	OAC rule 3745-21-07 (G)(2)	The requirements of this rule are less stringent than the requirements

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	established pursuant to OAC rule 3745-31-05 (A)(3).

2. Additional Terms and Conditions

2.a The permittee shall design enclosure #4 that will house K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042 in such a manner as to function as a permanent total enclosure (PTE) as defined by U.S. EPA Method 204. The use of the PTE, as defined in Reference Method 204, provides for 100% capture efficiency.

2.b The permittee shall install and maintain an incineration system to control the VOC emissions from the permanent total enclosure, PTE #4. The incinerator system shall have a VOC destruction efficiency of at least 99% by weight.

2.c The volatile organic compound (VOC) content of the Coatings (including stains, toners, glazes, topcoats and sealers) and Solvents & Support Materials used by the permittee at this emissions unit shall not exceed the following VOC content:

Coatings	7.5 lbs VOC/gallon
Solvents & Support Materials	9.0 lbs VOC/gallon

2.d Emissions from the Regenerative Thermal Oxidizer (RTO) #3 shall be restricted in such a manner to limit emissions from emissions units K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042 to the following:

i. 27.7 tons VOC per rolling 12 month period;
ii. 3.17 tons per rolling 12 month period of any individual HAP; and
iii. 8.27 tons per rolling 12 month period of total aggregate HAPs.

2.e Emissions from the entire facility shall not exceed the following limits:

i. 83.10 tons VOC per rolling 12 month period;
ii. 9.5 tons per rolling 12 month period of any individual HAP; and
iii. 24.8 tons per rolling 12 month period of total aggregate HAPs.

B. Operational Restrictions

1. The average combustion temperature within RTO #3, for any 3-hour block of time when an associated emissions unit is in operation, shall not be more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the RTO system was in compliance with the destruction efficiency requirement.

2. The permanent total enclosure shall be maintained under negative pressure, at a minimum pressure differential that is not less than the minimum pressure differential (inches of water) established during the most recent emission test that demonstrated the emissions unit was in

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compliance or 0.007 inches of water as established in Method 204, whenever the emissions unit is in operation.

3. The permittee shall limit the total coating and solvent usage for PTE #4 (K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042) as follows:

Coatings (including stains, toners, glazes, topcoats and sealers)	43,196 gallons/month
Solvents & Support Materials	15,300 gallons/month

C. Monitoring and/or Record keeping Requirements

1. The permittee shall install, maintain and operate monitoring devices and a recorder which simultaneously measure and record the pressure inside and outside the permanent total enclosure.

   The monitoring and recording devices shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

   The permittee shall record and maintain the following information on a daily basis:

   a. The difference in pressure between the permanent total enclosure and the surrounding area(s).

   b. A log or record of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

2. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

3. The permittee shall collect and record the following information for each day for RTO #3:

   a. A log of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions units.

   b. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when any of the associated emissions unit was in operation, was more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the incinerator system was in compliance with the destruction efficiency requirement.

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4. The permittee shall collect and record the following information each day for emissions units K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042.

   a. The name and identification number of each coating, solvent and support material, and cleanup material, as applied.

   b. The VOC content of each coating, solvent and support material, and cleanup material, as applied, in pounds per gallon and in pounds per gallon excluding water and exempt solvents.

   c. The number of gallons of each coating, solvent and support material, and cleanup material employed.

   d. The content of each individual HAP (i.e. xylene, toluene, and any other HAP) in each coating, solvent and support material and cleanup material employed, in pounds per gallon.

   e. The total uncontrolled VOC emission rate for all coatings, solvent and support materials, and cleanup materials employed, in pounds per day. This calculation is the summation of the product of (4.b or VOC content in pounds per gallon) times (4.c or number of gallons per day) for each coating, solvent, support material and cleanup material employed.

   f. The total uncontrolled emission rate for each individual HAP from all coatings, solvent and support materials and cleanup materials employed, in pounds per day. This calculation is the summation of the product of (4.d or individual HAP content in pounds per gallon) times (4.c or number of gallons per day) for each coating, solvent, support material and cleanup material employed.

   g. The total uncontrolled emission rate of all HAPs collectively from all coatings, solvent and support materials and cleanup materials employed, in pounds per day. This calculation is summation of each individual HAP emission rate, as determined above in 4.f.

   h. The calculated, controlled VOC emission rate for all coatings, solvent and support materials and cleanup materials, in pounds per day. The controlled, daily VOC emission rate shall be calculated using the overall control efficiency for the control equipment as determined during the most recent emission test that demonstrated that the emissions unit was in compliance. The controlled VOC emission rate is the uncontrolled VOC emission rate multiplied by (1 minus the overall control efficiency, in percentage).

   i. The calculated, controlled emission rate for each individual HAP from all coatings, solvent and support materials and cleanup materials, in pounds per day. The controlled emission rate shall be calculated using the overall control efficiency for the control equipment as determined during the most recent emission test that demonstrated that the emissions unit was in compliance. The controlled emission rate for each individual HAP

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is the uncontrolled emission rate multiplied by (1 minus the overall control efficiency, in percentage).

j. The total controlled emission rate of all HAPs collectively from all coatings, solvent and support materials and cleanup materials employed, in pounds per day. This calculation is summation of each individual HAP controlled emission rate, as determined above in 4.i.

5. The permittee shall collect and record the following information each month for emissions units K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040 and K042.

a. The controlled emission rate for each individual HAP from all coatings, solvent and support materials and cleanup materials, in pounds per rolling 12 month period. This calculation is the summation of each daily emission rate, as recorded per Section C.4.i, for the past twelve months and then multiplied by ton/2,000 lbs.

b. The controlled emission rate for all HAPs collectively from all coatings, solvent and support materials and cleanup materials, in pounds per rolling 12 month period. This calculation is the summation of each daily emission rate, as recorded per Section C.4.j, for the past twelve months and then multiplied by ton/2,000 lbs.

c. The controlled VOC emission rate for all coatings, solvent and support materials and cleanup materials, in tons per rolling 12 month period. This calculation is the summation of each daily emission rate, as recorded per Section C.4.h, for the past twelve months and then multiplied by ton/2,000 lbs.

d. The coating usage rate as described in Section B.3 in gallons per month.

e. The solvent usage rate as described in Section B.3 in gallons per month.

6. The permit to install for this emissions unit was evaluated based on the actual 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. The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following table summarizes the results of the modeling from RTO #3:

Compound	TLV ($ug.m^3$)	MAGLC = TLV/42 ($ug.m^3$)	Emission rate (g/s)	Predicted 1-hr max ground level conc. ($ug.m^3$)	MAGLC exceeded (Y/N)
formaldehyde	271	6	0.79	0.93	N

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methanol	262,086	6,240	0.79	0.93	N
acetone	1,187,116	28,264	0.79	0.93	N
MEK	589,775	14,042	0.79	0.93	N
naphthalene	52,429	1,248	0.79	0.93	N
cumene	245,787	5,852	0.79	0.93	N
ethylbenzene	4343,192	10,338	0.79	0.93	N
MIBK	204,826	4,877	0.79	0.93	N
toluene	188,405	4,486	0.79	0.93	N
hexane	1,762,372	41,961	0.79	0.93	N
xylene	434,192	10,338	0.79	0.93	N

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

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

   b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and

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

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

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

   a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);

   b. documentation of its evaluation and determination that the changed emissions unit still satisfied the "Air Toxic Policy"; and

   c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

D. Reporting Requirements

1. The permittee shall submit quarterly summaries of the following records:

   a. A log of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emission unit.

   b. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator does not comply with the temperature limitation specified above.

   c. All periods of time during which the permanent total enclosure was not maintained at the required differential pressure specified above.

   d. A list of all days when the daily VOC emission rate from RTO #3 exceeded 151.8 pounds.

   e. A list of any days when noncomplying coatings were used.

   f. A list of all months when the amount of coatings (including stains, toners, glazes, topcoats and sealers) exceeded 43,196 gallons, and the amount of solvent and support materials exceeded 15,300 gallons.

2. The permittee shall also submit a quarterly deviation report when the total controlled emissions of VOC, individual HAPs, and/or the total aggregate HAPs from RTO #3 exceed the limits listed in A.2.d and A.2.e respectively.

E. Testing Requirements

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

   a Emission Limitation:
   151.8 lbs VOC /day and 27.7 tons VOC per rolling 12 month period from RTO #3

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Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section C.4 and C.5.

b Emission Limitation:
528 lbs/month and 3.17 tons per rolling 12 month period of an individual HAP from RTO #3

Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section C.5.

c Emission Limitation:
1,378 lbs/month and 8.27 tons per rolling 12 month period of all HAPs from RTO #3

Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section C.5.

d Compliance with the VOC content restrictions of each coating, solvent and support material, and cleanup material shall be based upon the use of U.S. EPA Method 24.

e Emission Limitation:
0.8 lb NOx/hr and 3.3 tons NOx/year from the combustion of natural gas in the thermal oxidizer.

Applicable Compliance Method:
The following equation shall be used to determine the hourly emission rate.

E = EF x R x 1/H

where:

E = Emission rate, in lbs/hr

EF = Emission factor (AP-42, Section 1.4) for NOx is 100 lbs/mm cf.

R = Maximum rating of the thermal oxidizer reported to be 7.5 mm Btu/hr.

H = Heating value of the natural gas, in Btu/cf. 1,020 Btu/cf was used in the emission calculation for this permit.

The yearly rate, in tons/year, shall be determined by multiplying the hourly rate (lbs/hr) as calculated above, by (# hrs of operation/year) and (ton/2,000 lbs).

f Emission Limitation:
0.6 lb CO/hr and 2.8 tons CO/year from the combustion of natural gas in the thermal oxidizer.

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Applicable Compliance Method:
The following equation shall be used to determine the hourly emission rate.

E = EF x R x 1/H

where:

E = Emission rate, in lbs/hr

EF = Emission factor (AP-42, Section 1.4) for CO is 84 lbs/mm cf.

R = Maximum rating of the thermal oxidizer reported to be 7.5 mm Btu/hr.

H = Heating value of the natural gas, in Btu/cf. 1,020 Btu/cf was used in the emission calculation for this permit.

The yearly rate (tons/year) shall be determined by multiplying the hourly rate (lbs/hr), as calculated above, by (# hrs of operation/year) and (ton/2,000 lbs).

2. The permittee shall conduct, or have conducted, emission testing for this emission unit in accordance with the following requirements:

   a. The emission testing shall be conducted within 3 months after issuance of this permit.

   b. The emission testing shall be conducted to demonstrate compliance with the VOC capture efficiency and control efficiency requirement specified in Section A.2.a. Emission testing shall also be conducted to establish the average combustion temperature within the thermal incinerator, as specified in Section B.1, and to establish the minimum pressure differential within the permanent total enclosure, as specified in Section B.2.

   c. The test(s) shall be conducted while the emissions units are operating at or near their maximum capacity, unless otherwise specified or approved by the Ohio EPA Northeast District Office.

   d. The capture efficiency shall be determined using Methods 204 through 204F, as specified in 40 CFR part 51, Appendix M, or the permittee may request to use an alternative method or procedure for the determination of capture efficiency in accordance with the U.S. EPA's "Guideline for Determining Capture Efficiency," dated January 9, 1995. (The Ohio EPA will consider the request, including an evaluation of the applicability, necessity, and validity of the alternative, and may approve the use of the alternative if such approval does not contravene any other applicable requirement.)

   e. The control efficiency (i.e., the percent reduction in mass emissions between the inlet and outlet of the control system) shall be determined in accordance with the test methods and procedures specified in OAC rule 3745-21-10 or an approved alternative test protocol.

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The test methods and procedures selected shall be based on a consideration of the diversity of the organic species present and their total concentration, and on a consideration of the potential presence of interfering gases.

f. U.S. EPA Method 24 shall be used, in accordance with OAC rule 3745-21-04(B)(5), to determine the VOC contents for all coatings, solvent and support materials, and cleanup materials used during the performance test(s). If, pursuant to section 4.3 of Method 24, 40 CFR part 60, Appendix A, an owner or operator determines that Method 24 cannot be used for a particular coating, solvent and support material, or cleanup material, the permittee shall so notify the Administrator of the U.S. EPA and shall use formulation data for that coating, solvent and support material, or cleanup material to demonstrate compliance until the U.S. EPA provides alternative analytical procedures or alternative precision statements for Method 24.

g. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Northeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA Northeast District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA Northeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

h. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Northeast District Office within 30 days following completion of the test(s).

F. Miscellaneous Requirements

1. In accordance with the provisions of OAC rule 3745-35-07, the following terms and conditions of this permit to install are federally enforceable: A-F, except C.6, C.7 and C.8.

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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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
K041 - Repair booth 2**,** located in total permanent enclosure no. 4 and controlled by regenerative thermal oxidizer no. 3.	OAC rule 3745-31-05 (A)(3)	Volatile Organic Compounds (VOC) emissions shall not exceed 151.8 pounds per day and 27.7 TPY. Hazardous Air Pollutant (HAP) emissions shall not exceed 528 pounds per month for an individual HAP and 1,378 pounds per month for combined HAPs. Nitrogen Oxide (NOx) emissions from the combustion of natural gas from the thermal oxidizer shall not exceed 0.8 pound per hour, 3.3 tons per year. Carbon Monoxide (CO) emissions from the combustion of natural gas from the thermal oxidizer shall not exceed 0.6 pound per hour, 2.8 tons per year. The requirements of this rule also include compliance with the requirements of OAC rule 3745-35-07 (B).
	OAC rule 3745-35-07 (B)	See Section A.2.a through A.2.e.
	OAC rule 3745-21-07 (G)(2)	The requirements of this rule are less stringent than the requirements

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	established pursuant to OAC rule 3745-31-05 (A)(3).

2. Additional Terms and Conditions

2.a The permittee shall design enclosure #4 that will house K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042 in such a manner as to function as a permanent total enclosure (PTE) as defined by U.S. EPA Method 204. The use of the PTE, as defined in Reference Method 204, provides for 100% capture efficiency.

2.b The permittee shall install and maintain an incineration system to control the VOC emissions from the permanent total enclosure, PTE #4. The incinerator system shall have a VOC destruction efficiency of at least 99% by weight.

2.c The volatile organic compound (VOC) content of the Coatings (including stains, toners, glazes, topcoats and sealers) and Solvents & Support Materials used by the permittee at this emissions unit shall not exceed the following VOC content:

Coatings	7.5 lbs VOC/gallon
Solvents & Support Materials	9.0 lbs VOC/gallon

2.d Emissions from the Regenerative Thermal Oxidizer (RTO) #3 shall be restricted in such a manner to limit emissions from emissions units K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042 to the following:

i. 27.7 tons VOC per rolling 12 month period;
ii. 3.17 tons per rolling 12 month period of any individual HAP; and
iii. 8.27 tons per rolling 12 month period of total aggregate HAPs.

2.e Emissions from the entire facility shall not exceed the following limits:

i. 83.10 tons VOC per rolling 12 month period;
ii. 9.5 tons per rolling 12 month period of any individual HAP; and
iii. 24.8 tons per rolling 12 month period of total aggregate HAPs.

B. Operational Restrictions

1. The average combustion temperature within RTO #3, for any 3-hour block of time when an associated emissions unit is in operation, shall not be more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the RTO system was in compliance with the destruction efficiency requirement.

2. The permanent total enclosure shall be maintained under negative pressure, at a minimum pressure differential that is not less than the minimum pressure differential (inches of water) established during the most recent emission test that demonstrated the emissions unit was in

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compliance or 0.007 inches of water as established in Method 204, whenever the emissions unit is in operation.

3. The permittee shall limit the total coating and solvent usage for PTE #4 (K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042) as follows:

Coatings (including stains, toners, glazes, topcoats and sealers)	43,196 gallons/month
Solvents & Support Materials	15,300 gallons/month

C. Monitoring and/or Record keeping Requirements

1. The permittee shall install, maintain and operate monitoring devices and a recorder which simultaneously measure and record the pressure inside and outside the permanent total enclosure.

   The monitoring and recording devices shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

   The permittee shall record and maintain the following information on a daily basis:

   a. The difference in pressure between the permanent total enclosure and the surrounding area(s).

   b. A log or record of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

2. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

3. The permittee shall collect and record the following information for each day for RTO #3:

   a. A log of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions units.

   b. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when any of the associated emissions unit was in operation, was more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the incinerator system was in compliance with the destruction efficiency requirement.

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4. The permittee shall collect and record the following information each day for emissions units K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042.

   a. The name and identification number of each coating, solvent and support material, and cleanup material, as applied.

   b. The VOC content of each coating, solvent and support material, and cleanup material, as applied, in pounds per gallon.

   c. The number of gallons of each coating, solvent and support material, and cleanup material employed.

   d. The content of each individual HAP (i.e. xylene, toluene, and any other HAP) in each coating, solvent and support material and cleanup material employed, in pounds per gallon.

   e. The total uncontrolled VOC emission rate for all coatings, solvent and support materials, and cleanup materials employed, in pounds per day. This calculation is the summation of the product of (4.b or VOC content in pounds per gallon) times (4.c or number of gallons per day) for each coating, solvent, support material and cleanup material employed.

   f. The total uncontrolled emission rate for each individual HAP from all coatings, solvent and support materials and cleanup materials employed, in pounds per day. This calculation is the summation of the product of (4.d or individual HAP content in pounds per gallon) times (4.c or number of gallons per day) for each coating, solvent, support material and cleanup material employed.

   g. The total uncontrolled emission rate of all HAPs collectively from all coatings, solvent and support materials and cleanup materials employed, in pounds per day. This calculation is summation of each individual HAP emission rate, as determined above in 4.f.

   h. The calculated, controlled VOC emission rate for all coatings, solvent and support materials and cleanup materials, in pounds per day. The controlled, daily VOC emission rate shall be calculated using the overall control efficiency for the control equipment as determined during the most recent emission test that demonstrated that the emissions unit was in compliance. The controlled VOC emission rate is the uncontrolled VOC emission rate multiplied by (1 minus the overall control efficiency, in percentage).

   i. The calculated, controlled emission rate for each individual HAP from all coatings, solvent and support materials and cleanup materials, in pounds per day. The controlled emission rate shall be calculated using the overall control efficiency for the control equipment as determined during the most recent emission test that demonstrated that the emissions unit was in compliance. The controlled emission rate for each individual HAP is the uncontrolled emission rate multiplied by (1 minus the overall control efficiency, in percentage).

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j. The total controlled emission rate of all HAPs collectively from all coatings, solvent and support materials and cleanup materials employed, in pounds per day. This calculation is summation of each individual HAP controlled emission rate, as determined above in 4.i.

5. The permittee shall collect and record the following information each month for emissions units K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042.

a. The controlled emission rate for each individual HAP from all coatings, solvent and support materials and cleanup materials, in pounds per rolling 12 month period. This calculation is the summation of each daily emission rate, as recorded per Section C.4.i, for the past twelve months and then multiplied by ton/2,000 lbs.

b. The controlled emission rate for all HAPs collectively from all coatings, solvent and support materials and cleanup materials, in pounds per rolling 12 month period. This calculation is the summation of each daily emission rate, as recorded per Section C.4.j, for the past twelve months and then multiplied by ton/2,000 lbs.

c. The controlled VOC emission rate for all coatings, solvent and support materials and cleanup materials, in tons per rolling 12 month period. This calculation is the summation of each daily emission rate, as recorded per Section C.4.h, for the past twelve months and then multiplied by ton/2,000 lbs.

d. The coating usage rate as described in Section B.3 in gallons per month.

e. The solvent usage rate as described in Section B.3 in gallons per month.

6. The permit to install for this emissions unit was evaluated based on the actual 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. The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following table summarizes the results of the modeling from RTO #3:

Compound	TLV ($ug.m^3$)	MAGLC = TLV/42 ($ug.m^3$)	Emission rate (g/s)	Predicted 1-hr max ground level conc. ($ug.m^3$)	MAGLC exceeded (Y/N)
formaldehyde	271	6	0.79	0.93	N
methanol	262,086	6,240	0.79	0.93	N
acetone	1,187,116	28,264	0.79	0.93	N

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MEK	589,775	14,042	0.79	0.93	N
naphthalene	52,429	1,248	0.79	0.93	N
cumene	245,787	5,852	0.79	0.93	N
ethylbenzene	4343,192	10,338	0.79	0.93	N
MIBK	204,826	4,877	0.79	0.93	N
toluene	188,405	4,486	0.79	0.93	N
hexane	1,762,372	41,961	0.79	0.93	N
xylene	434,192	10,338	0.79	0.93	N

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

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

   b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and

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

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

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

a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);

b. documentation of its evaluation and determination that the changed emissions unit still satisfied the "Air Toxic Policy"; and

c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

D. Reporting Requirements

1. The permittee shall submit quarterly summaries of the following records:

   a. A log of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emission unit.

   b. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator does not comply with the temperature limitation specified above.

   c. All periods of time during which the permanent total enclosure was not maintained at the required differential pressure specified above.

   d. A list of all days when the daily VOC emission rate from RTO #3 exceeded 151.8 pounds.

   e. A list of any days when noncomplying coatings were used.

   f. A list of all months when the amount of coatings (including stains, toners, glazes, topcoats and sealers) exceeded 43,196 gallons, and the amount of solvent and support materials exceeded 15,300 gallons.

2. The permittee shall also submit a quarterly deviation report when the total controlled emissions of VOC, individual HAPs, and/or the total aggregate HAPs from RTO #3 exceed the limits listed in A.2.d and A.2.e respectively.

E. Testing Requirements

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

   a Emission Limitation:
   151.8 lbs VOC /day and 27.7 tons VOC per rolling 12 month period from RTO #3

   Applicable Compliance Method:
   Compliance shall be based upon the record keeping specified in Section C.4 and C.5.

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b Emission Limitation:
528 lbs/month and 3.17 tons per rolling 12 month period of an individual HAP from RTO #3

Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section C.5.

c Emission Limitation:
1,378 lbs/month and 8.27 tons per rolling 12 month period of all HAPs from RTO #3

Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section C.5.

d Compliance with the VOC content restrictions of each coating, solvent and support material, and cleanup material shall be based upon the use of U.S. EPA Method 24.

e Emission Limitation:
0.8 lb NOx/hr and 3.3 tons NOx/year from the combustion of natural gas in the thermal oxidizer.

Applicable Compliance Method:
The following equation shall be used to determine the hourly emission rate.

E = EF x R x 1/H

where:

E = Emission rate, in lbs/hr

EF = Emission factor (AP-42, Section 1.4) for NOx is 100 lbs/mm cf.

R = Maximum rating of the thermal oxidizer reported to be 7.5 mm Btu/hr.

H = Heating value of the natural gas, in Btu/cf. 1,020 Btu/cf was used in the emission calculation for this permit.

The yearly rate, in tons/year, shall be determined by multiplying the hourly rate (lbs/hr) as calculated above, by (# hrs of operation/year) and (ton/2,000 lbs).

f Emission Limitation:
0.6 lb CO/hr and 2.8 tons CO/year from the combustion of natural gas in the thermal oxidizer.

Applicable Compliance Method:
The following equation shall be used to determine the hourly emission rate.

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E = EF x R x 1/H

where:

E = Emission rate, in lbs/hr

EF = Emission factor (AP-42, Section 1.4) for CO is 84 lbs/mm cf.

R = Maximum rating of the thermal oxidizer reported to be 7.5 mm Btu/hr.

H = Heating value of the natural gas, in Btu/cf. 1,020 Btu/cf was used in the emission calculation for this permit.

The yearly rate (tons/year) shall be determined by multiplying the hourly rate (lbs/hr), as calculated above, by (# hrs of operation/year) and (ton/2,000 lbs).

2. The permittee shall conduct, or have conducted, emission testing for this emission unit in accordance with the following requirements:

   a. The emission testing shall be conducted within 3 months after issuance of this permit.

   b. The emission testing shall be conducted to demonstrate compliance with the VOC capture efficiency and control efficiency requirement specified in Section A.2.a. Emission testing shall also be conducted to establish the average combustion temperature within the thermal incinerator, as specified in Section B.1, and to establish the minimum pressure differential within the permanent total enclosure, as specified in Section B.2.

   c. The test(s) shall be conducted while the emissions units are operating at or near their maximum capacity, unless otherwise specified or approved by the Ohio EPA Northeast District Office.

   d. The capture efficiency shall be determined using Methods 204 through 204F, as specified in 40 CFR part 51, Appendix M, or the permittee may request to use an alternative method or procedure for the determination of capture efficiency in accordance with the U.S. EPA's "Guideline for Determining Capture Efficiency," dated January 9, 1995. (The Ohio EPA will consider the request, including an evaluation of the applicability, necessity, and validity of the alternative, and may approve the use of the alternative if such approval does not contravene any other applicable requirement.)

   e. The control efficiency (i.e., the percent reduction in mass emissions between the inlet and outlet of the control system) shall be determined in accordance with the test methods and procedures specified in OAC rule 3745-21-10 or an approved alternative test protocol. The test methods and procedures selected shall be based on a consideration of the diversity of the organic species present and their total concentration, and on a consideration of the potential presence of interfering gases.

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f. U.S. EPA Method 24 shall be used, in accordance with OAC rule 3745-21-04(B)(5), to determine the VOC contents for all coatings, solvent and support materials, and cleanup materials used during the performance test(s). If, pursuant to section 4.3 of Method 24, 40 CFR part 60, Appendix A, an owner or operator determines that Method 24 cannot be used for a particular coating, solvent and support material, or cleanup material, the permittee shall so notify the Administrator of the U.S. EPA and shall use formulation data for that coating, solvent and support material, or cleanup material to demonstrate compliance until the U.S. EPA provides alternative analytical procedures or alternative precision statements for Method 24.

g. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Northeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA Northeast District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA Northeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

h. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Northeast District Office within 30 days following completion of the test(s).

F. Miscellaneous Requirements

1. In accordance with the provisions of OAC rule 3745-35-07, the following terms and conditions of this permit to install are federally enforceable: A-F, except C.6, C.7 and C.8.

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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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
K042 - Glaze booth 3**,** located in total permanent enclosure no. 4 and controlled by regenerative thermal oxidizer no. 3.	OAC rule 3745-31-05 (A)(3)	Volatile Organic Compounds (VOC) emissions shall not exceed 151.8 pounds per day and 27.7 TPY. Hazardous Air Pollutant (HAP) emissions shall not exceed 528 pounds per month for an individual HAP and 1,378 pounds per month for combined HAPs. Nitrogen Oxide (NOx) emissions from the combustion of natural gas from the thermal oxidizer shall not exceed 0.8 pound per hour, 3.3 tons per year. Carbon Monoxide (CO) emissions from the combustion of natural gas from the thermal oxidizer shall not exceed 0.6 pound per hour, 2.8 tons per year. The requirements of this rule also include compliance with the requirements of OAC rule 3745-35-07 (B).
	OAC rule 3745-35-07 (B)	See Section A.2.a through A.2.e.
	OAC rule 3745-21-07 (G)(2)	The requirements of this rule are less stringent than the requirements

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	established pursuant to OAC rule 3745-31-05 (A)(3).

2. Additional Terms and Conditions

2.a The permittee shall design enclosure #4 that will house K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042 in such a manner as to function as a permanent total enclosure (PTE) as defined by U.S. EPA Method 204. The use of the PTE, as defined in Reference Method 204, provides for 100% capture efficiency.

2.b The permittee shall install and maintain an incineration system to control the VOC emissions from the permanent total enclosure, PTE #4. The incinerator system shall have a VOC destruction efficiency of at least 99% by weight.

2.c The volatile organic compound (VOC) content of the Coatings (including stains, toners, glazes, topcoats and sealers) and Solvents & Support Materials used by the permittee at this emissions unit shall not exceed the following VOC content:

Coatings	7.5 lbs VOC/gallon
Solvents & Support Materials	9.0 lbs VOC/gallon

2.d Emissions from the Regenerative Thermal Oxidizer (RTO) #3 shall be restricted in such a manner to limit emissions from emissions units K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042 to the following:

i. 27.7 tons VOC per rolling 12 month period;
ii. 3.17 tons per rolling 12 month period of any individual HAP; and
iii. 8.27 tons per rolling 12 month period of total aggregate HAPs.

2.e Emissions from the entire facility shall not exceed the following limits:

i. 83.10 tons VOC per rolling 12 month period;
ii. 9.5 tons per rolling 12 month period of any individual HAP; and
iii. 24.8 tons per rolling 12 month period of total aggregate HAPs.

B. Operational Restrictions

1. The average combustion temperature within RTO #3, for any 3-hour block of time when an associated emissions unit is in operation, shall not be more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the RTO system was in compliance with the destruction efficiency requirement.

2. The permanent total enclosure shall be maintained under negative pressure, at a minimum pressure differential that is not less than the minimum pressure differential (inches of water) established during the most recent emission test that demonstrated the emissions unit was in

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compliance or 0.007 inches of water as established in Method 204, whenever the emissions unit is in operation.

3. The permittee shall limit the total coating and solvent usage for PTE #4 (K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042) as follows:

Coatings (including stains, toners, glazes, topcoats and sealers)	43,196 gallons/month
Solvents & Support Materials	15,300 gallons/month

C. Monitoring and/or Record keeping Requirements

1. The permittee shall install, maintain and operate monitoring devices and a recorder which simultaneously measure and record the pressure inside and outside the permanent total enclosure.

   The monitoring and recording devices shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

   The permittee shall record and maintain the following information on a daily basis:

   a. The difference in pressure between the permanent total enclosure and the surrounding area(s).

   b. A log or record of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

2. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

3. The permittee shall collect and record the following information for each day for RTO #3:

   a. A log of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions units.

   b. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when any of the associated emissions unit was in operation, was more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the incinerator system was in compliance with the destruction efficiency requirement.

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4. The permittee shall collect and record the following information each day for emissions units K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042.

   a. The name and identification number of each coating, solvent and support material, and cleanup material, as applied.

   b. The VOC content of each coating, solvent and support material, and cleanup material, as applied, in pounds per gallon.

   c. The number of gallons of each coating, solvent and support material, and cleanup material employed.

   d. The content of each individual HAP (i.e. xylene, toluene, and any other HAP) in each coating, solvent and support material and cleanup material employed, in pounds per gallon.

   e. The total uncontrolled VOC emission rate for all coatings, solvent and support materials, and cleanup materials employed, in pounds per day. This calculation is the summation of the product of (4.b or VOC content in pounds per gallon) times (4.c or number of gallons per day) for each coating, solvent, support material and cleanup material employed.

   f. The total uncontrolled emission rate for each individual HAP from all coatings, solvent and support materials and cleanup materials employed, in pounds per day. This calculation is the summation of the product of (4.d or individual HAP content in pounds per gallon) times (4.c or number of gallons per day) for each coating, solvent, support material and cleanup material employed.

   g. The total uncontrolled emission rate of all HAPs collectively from all coatings, solvent and support materials and cleanup materials employed, in pounds per day. This calculation is summation of each individual HAP emission rate, as determined above in 4.f.

   h. The calculated, controlled VOC emission rate for all coatings, solvent and support materials and cleanup materials, in pounds per day. The controlled, daily VOC emission rate shall be calculated using the overall control efficiency for the control equipment as determined during the most recent emission test that demonstrated that the emissions unit was in compliance. The controlled VOC emission rate is the uncontrolled VOC emission rate multiplied by (1 minus the overall control efficiency, in percentage).

   i. The calculated, controlled emission rate for each individual HAP from all coatings, solvent and support materials and cleanup materials, in pounds per day. The controlled emission rate shall be calculated using the overall control efficiency for the control equipment as determined during the most recent emission test that demonstrated that the emissions unit was in compliance. The controlled emission rate for each individual HAP

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is the uncontrolled emission rate multiplied by (1 minus the overall control efficiency, in percentage).

j. The total controlled emission rate of all HAPs collectively from all coatings, solvent and support materials and cleanup materials employed, in pounds per day. This calculation is summation of each individual HAP controlled emission rate, as determined above in 4.i.

5. The permittee shall collect and record the following information each month for emissions units K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041 and K042.

a. The controlled emission rate for each individual HAP from all coatings, solvent and support materials and cleanup materials, in pounds per rolling 12 month period. This calculation is the summation of each daily emission rate, as recorded per Section C.4.i, for the past twelve months and then multiplied by ton/2,000 lbs.

b. The controlled emission rate for all HAPs collectively from all coatings, solvent and support materials and cleanup materials, in pounds per rolling 12 month period. This calculation is the summation of each daily emission rate, as recorded per Section C.4.j, for the past twelve months and then multiplied by ton/2,000 lbs.

c. The controlled VOC emission rate for all coatings, solvent and support materials and cleanup materials, in tons per rolling 12 month period. This calculation is the summation of each daily emission rate, as recorded per Section C.4.h, for the past twelve months and then multiplied by ton/2,000 lbs.

d. The coating usage rate as described in Section B.3 in gallons per month.

e. The solvent usage rate as described in Section B.3 in gallons per month.

6. The permit to install for this emissions unit was evaluated based on the actual 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. The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following table summarizes the results of the modeling from RTO #3:

Compound	TLV ($ug.m^3$)	MAGLC = TLV/42 ($ug.m^3$)	Emission rate (g/s)	Predicted 1-hr max ground level conc. ($ug.m^3$)	MAGLC exceeded (Y/N)
formaldehyde	271	6	0.79	0.93	N

methanol	262,086	6,240	0.79	0.93	N
acetone	1,187,116	28,264	0.79	0.93	N
MEK	589,775	14,042	0.79	0.93	N
naphthalene	52,429	1,248	0.79	0.93	N
cumene	245,787	5,852	0.79	0.93	N
ethylbenzene	4343,192	10,338	0.79	0.93	N
MIBK	204,826	4,877	0.79	0.93	N
toluene	188,405	4,486	0.79	0.93	N
hexane	1,762,372	41,961	0.79	0.93	N
xylene	434,192	10,338	0.79	0.93	N

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

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

   b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and

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

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

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

   a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);

   b. documentation of its evaluation and determination that the changed emissions unit still satisfied the "Air Toxic Policy"; and

   c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

D. Reporting Requirements

1. The permittee shall submit quarterly summaries of the following records:

   a. A log of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emission unit.

   b. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator does not comply with the temperature limitation specified above.

   c. All periods of time during which the permanent total enclosure was not maintained at the required differential pressure specified above.

   d. A list of all days when the daily VOC emission rate from RTO #3 exceeded 151.8 pounds.

   e. A list of any days when noncomplying coatings were used.

   f. A list of all months when the amount of coatings (including stains, toners, glazes, topcoats and sealers) exceeded 43,196 gallons, and the amount of solvent and support materials exceeded 15,300 gallons.

2. The permittee shall also submit a quarterly deviation report when the total controlled emissions of VOC, individual HAPs, and/or the total aggregate HAPs from RTO #3 exceed the limits listed in A.2.d and A.2.e respectively.

E. Testing Requirements

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

   a Emission Limitation:
   151.8 lbs VOC /day and 27.7 tons VOC per rolling 12 month period from RTO #3

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Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section C.4 and C.5.

b Emission Limitation:
528 lbs/month and 3.17 tons per rolling 12 month period of an individual HAP from RTO #3

Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section C.5.

c Emission Limitation:
1,378 lbs/month and 8.27 tons per rolling 12 month period of all HAPs from RTO #3

Applicable Compliance Method:
Compliance shall be based upon the record keeping specified in Section C.5.

d Compliance with the VOC content restrictions of each coating, solvent and support material, and cleanup material shall be based upon the use of U.S. EPA Method 24.

e Emission Limitation:
0.8 lb NOx/hr and 3.3 tons NOx/year from the combustion of natural gas in the thermal oxidizer.

Applicable Compliance Method:
The following equation shall be used to determine the hourly emission rate.

E = EF x R x 1/H

where:

E = Emission rate, in lbs/hr

EF = Emission factor (AP-42, Section 1.4) for NOx is 100 lbs/mm cf.

R = Maximum rating of the thermal oxidizer reported to be 7.5 mm Btu/hr.

H = Heating value of the natural gas, in Btu/cf. 1,020 Btu/cf was used in the emission calculation for this permit.

The yearly rate, in tons/year, shall be determined by multiplying the hourly rate (lbs/hr) as calculated above, by (# hrs of operation/year) and (ton/2,000 lbs).

f Emission Limitation:
0.6 lb CO/hr and 2.8 tons CO/year from the combustion of natural gas in the thermal oxidizer.

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Applicable Compliance Method:
The following equation shall be used to determine the hourly emission rate.

E = EF x R x 1/H

where:

E = Emission rate, in lbs/hr

EF = Emission factor (AP-42, Section 1.4) for CO is 84 lbs/mm cf.

R = Maximum rating of the thermal oxidizer reported to be 7.5 mm Btu/hr.

H = Heating value of the natural gas, in Btu/cf. 1,020 Btu/cf was used in the emission calculation for this permit.

The yearly rate (tons/year) shall be determined by multiplying the hourly rate (lbs/hr), as calculated above, by (# hrs of operation/year) and (ton/2,000 lbs).

2. The permittee shall conduct, or have conducted, emission testing for this emission unit in accordance with the following requirements:

   a. The emission testing shall be conducted within 3 months after issuance of this permit.

   b. The emission testing shall be conducted to demonstrate compliance with the VOC capture efficiency and control efficiency requirement specified in Section A.2.a. Emission testing shall also be conducted to establish the average combustion temperature within the thermal incinerator, as specified in Section B.1, and to establish the minimum pressure differential within the permanent total enclosure, as specified in Section B.2.

   c. The test(s) shall be conducted while the emissions units are operating at or near their maximum capacity, unless otherwise specified or approved by the Ohio EPA Northeast District Office.

   d. The capture efficiency shall be determined using Methods 204 through 204F, as specified in 40 CFR part 51, Appendix M, or the permittee may request to use an alternative method or procedure for the determination of capture efficiency in accordance with the U.S. EPA's "Guideline for Determining Capture Efficiency," dated January 9, 1995. (The Ohio EPA will consider the request, including an evaluation of the applicability, necessity, and validity of the alternative, and may approve the use of the alternative if such approval does not contravene any other applicable requirement.)

   e. The control efficiency (i.e., the percent reduction in mass emissions between the inlet and outlet of the control system) shall be determined in accordance with the test methods and procedures specified in OAC rule 3745-21-10 or an approved alternative test protocol.

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The test methods and procedures selected shall be based on a consideration of the diversity of the organic species present and their total concentration, and on a consideration of the potential presence of interfering gases.

f. U.S. EPA Method 24 shall be used, in accordance with OAC rule 3745-21-04(B)(5), to determine the VOC contents for all coatings, solvent and support materials, and cleanup materials used during the performance test(s). If, pursuant to section 4.3 of Method 24, 40 CFR part 60, Appendix A, an owner or operator determines that Method 24 cannot be used for a particular coating, solvent and support material, or cleanup material, the permittee shall so notify the Administrator of the U.S. EPA and shall use formulation data for that coating, solvent and support material, or cleanup material to demonstrate compliance until the U.S. EPA provides alternative analytical procedures or alternative precision statements for Method 24.

g. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Northeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA Northeast District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA Northeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

h. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Northeast District Office within 30 days following completion of the test(s).

F. Miscellaneous Requirements

1. In accordance with the provisions of OAC rule 3745-35-07, the following terms and conditions of this permit to install are federally enforceable: A-F, except C.6, C.7 and C.8.

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