



10/20/2026

Lacie Gubernath
Pittsburgh Glass Works, LLC
5066 Lincoln Highway
Crestline, OH 44827

RE: DRAFT AIR POLLUTION PERMIT-TO-INSTALL AND OPERATE

Facility ID: 0370000217
Permit Number: P0141442
Permit Type: Initial Installation
County: Richland

No	TOXIC REVIEW
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
No	MACT/GACT
No	NSPS
No	NESHAPS
No	NETTING
No	MODELING SUBMITTED
Yes	SYNTHETIC MINOR TO AVOID TITLE V
Yes	FEDERALLY ENFORCABLE PTIO (FEPTIO)
No	SYNTHETIC MINOR TO AVOID MAJOR GHG

Dear Permit Holder:

A draft of the Ohio Administrative Code (OAC) Chapter 3745-31 Air Pollution Permit-to-Install and Operate (PTIO) for the referenced facility has been issued for the emissions unit(s) listed in the Authorization section of 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 permit. A public notice will appear in the Ohio Environmental Protection Agency Weekly Review and Public Notices website, [Weekly Review and Public Notices](#). A copy of the public notice and the draft permit are enclosed. This permit can be accessed electronically on the Ohio EPA document search webpage: [eDocument Search | Ohio Environmental Protection Agency](#). The permit can also be commented on and accessed electronically at: <https://ohioepa.commentinput.com>. Search by entering the permit # (P0141442) in the "Search Projects" search box and selecting "Review Document" or "Draft Permit." Comments will be accepted as a marked-up copy of the draft permit or in narrative format. Written (paper) comments must be sent to the following:

Andrea Moore
Permit Review/Development Section
Ohio EPA, DAPC
50 West Town Street Suite 700
PO Box 1049
Columbus, Ohio 43216-1049

and Ohio EPA DAPC, Northwest District Office
347 North Dunbridge Rd.
Bowling Green, OH 43402

Comments and/or a request for a public hearing will be accepted within 30 days of the date the notice appears on the Ohio EPA Weekly Review and Public Notices website, [Weekly Review and Public Notices | Ohio Environmental Protection Agency](#). You will be notified if a public hearing is scheduled. A decision on issuing a final permit-to-install will be made after consideration of comments received and oral testimony if a public hearing is conducted. Any permit fee that will be due upon issuance of a final Permit-to-Install is indicated in the Authorization section. Please do not submit any payment now. If you have any questions, please contact Ohio EPA DAPC, Northwest District Office at (419)352-8461.

Sincerely,

Robert Hodanbosi
Chief, Division of Air Pollution Control

cc: U.S. EPA Region 5 Via E-Mail Notification
Ohio EPA-NWDO; Canada

PUBLIC NOTICE

The following matters are the subject of this public notice by the Ohio Environmental Protection Agency. The complete public notice, including any additional instructions for submitting comments, requesting information, a public hearing, or filing an appeal may be obtained at: [Weekly Review and Public Notices | Ohio Environmental Protection Agency](#) or Hearing Clerk, Ohio EPA, 50 W. Town St., Columbus, Ohio 43215. Ph: 614-644-3037 email: HClerk@epa.ohio.gov

Draft Air Pollution Permit-to-Install and Operate Initial Installation

Pittsburgh Glass Works, LLC
5066 Lincoln Highway
Crestline, OH 44827

ID#: P0141442

Date of Action: 10/20/2026

Permit Desc: FEPTIO installation permit for two new window assembly lines and the inclusion of a previously installed cold end glass scoring process.

The permit can be accessed electronically and comments may be submitted at: <https://ohioepa.commentinput.com> - Search by entering the permit P0141442 in the "Search Projects" search box.

Permit Strategy Write-Up

1. Check all that apply:

☒ Synthetic Minor Determination

☐ Netting Determination

2. Source Description:

This is an initial installation permit for two new window assembly lines (Line 9 and 12) and the cold end glass scoring stations that were previously unaccounted for at the facility.

3. Facility Emissions and Attainment Status:

The facility has requested synthetic minor restrictions because the facility's potential emissions of volatile organic compounds (VOC) exceed 100 tons per year and potential emissions of hazardous air pollutants (HAP) exceeds 10 tons per year for a single HAP and 25 tons per year for combined HAPs. Federally enforceable restrictions will lower potential emissions of the above-mentioned pollutants to below Title V and MACT major source thresholds. Pittsburgh Glass Works, LLC is in Richland County and is classified as a minor facility for Title V purposes. Richland County is designated attainment for all criteria pollutants.

4. Source Emissions:

The PTE for Line 9 (P065) emissions unit is 2.86 tons VOC per rolling, 12-month period, 0.61 ton toluene per rolling, 12-month period and 1.07 ton of combined HAPs per rolling, 12-month period. The PTE for Line 12 (P066) emissions unit is 1.37 tons VOC per rolling, 12-month period, 0.65 ton toluene and 0.65 ton methanol per rolling, 12-month period and 1.30 ton HAPs per rolling, 12-month period. The PTE for the cold end glass scoring stations (P064) are 26.66 tons VOC/yr (2.22 tons VOC/month averaged over a 12-month period), no HAPs are produced in this process.

5. Conclusion:

In order to avoid Title V permitting requirements and MACT applicability, federally enforceable limits will be imposed on Pittsburgh Glass Works, LLC for combined VOC and HAPs emissions to ensure the facility's potential emission rates remain below the Title V and MACT significance thresholds.

6. Please provide additional notes or comments as necessary:

None

7. Total Permit Allowable Emissions Summary (for informational purposes only):



**Environmental
Protection
Agency**

Draft Permit-to-Install and Operate

Pittsburgh Glass Works, LLC

Permit Number: P0141442

Facility ID: 0370000217

Effective Date: To be entered upon final issuance

Pollutant	TPY
VOC	93.86 tons VOC per rolling, 12-month period for emission units K004, P019-P028, P031-P036, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P064-P066 combined.
HAPs	9.90 tons per rolling, 12-month period for any individual HAP for emission units K004, P019-P028, P031-P036, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P065-P066 combined.
HAPs	24.90 tons per rolling, 12-month period for any combination of HAPs for emission units K004, P019-P028, P031-P036, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P065-P066 combined.



**Environmental
Protection
Agency**

DRAFT

Division of Air Pollution Control
Permit-to-Install and Operate
for
Pittsburgh Glass Works, LLC

Facility ID:	0370000217
Permit Number:	P0141442
Permit Type:	Initial Installation
Issued:	10/20/2026
Effective:	To be entered upon final issuance
Expiration:	To be entered upon final issuance



Division of Air Pollution Control
Permit-to-Install and Operate
for
Pittsburgh Glass Works, LLC

Table of Contents

Authorization.....	7
List of Commonly Used Abbreviations	12
A. Standard Terms and Conditions.....	13
B. Facility-Wide Terms and Conditions.....	18
C. Emissions Unit Terms and Conditions	20
1. P007, 100 LB/HR SANDBLASTER.....	21
2. P047, P047	24
3. P062, New Door Sidelite Bonding Line.....	29
4. P063, Line #10: C1YX-2 Bl Line	37
5. P064, Cold End Glass Scoring Stations (12 stations using Naptha)	42
6. P065, Window Priming and Assembly Line 9 (Nissan Backlite).....	46
7. P066, Window Priming and Assembly New Line 12 (Slate Backlite)	51
8. Emissions Unit Group - 1&5 DBO Silk Screen Printing: P019, P020, P021, P022, P054.....	56
9. Emissions Unit Group - Silk Screen Printing VAW, HPB: P023, P024, P025, P026, P027, P028	62
10. Emissions Unit Group - Window and Door Assembly Lines: P055, P057, P058, P060, P061	68
11. Emissions Unit Group - Window Assembly Line #1: P031, P032, P033, P034, P035, P036, P040	73
12. Emissions Unit Group - Window Assembly Line #2: P041, P043	80

Authorization

Facility ID: 0370000217
Application Number(s): A0082538A0082538
Permit Number: P0141442
Permit Description: FEPTIO installation permit for two new window assembly lines and the inclusion of a previously installed cold end glass scoring process.
Permit Type: Initial Installation
Permit Fee: \$5,550.00 *DO NOT send payment at this time, subject to change before final issuance*
Issue Date: 10/20/2026
Effective Date: To be entered upon final issuance
Expiration Date: To be entered upon final issuance
Permit Evaluation Report (PER) Annual Date: To be entered upon final issuance

This document constitutes issuance of a Permit-to-Install and Operate for the emissions unit(s) identified on the following page to:

Pittsburgh Glass Works, LLC
5066 Lincoln Highway
Crestline, OH 44827

Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

Ohio EPA DAPC, Northwest District Office
347 North Dunbridge Rd.
Bowling Green, OH 43402
(419)352-8461

The above-named entity is hereby granted this Permit-to-Install and Operate for the air contaminant source(s) (emissions unit(s)) listed in this section 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 described emissions unit(s) will operate in compliance with applicable State and Federal laws and regulations.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

John Logue
Director

Authorization (continued)

Permit Number: P0141442

Permit Description: FEPTIO installation permit for two new window assembly lines and the inclusion of a previously installed cold end glass scoring process.

Permits for the following Emissions Unit(s) or groups of Emissions Units are in this document as indicated below:

Emissions Unit ID:	P007
Company Equipment ID:	100 LB/HR SANDBLASTER
Superseded Permit Number:	P0134827
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P047
Company Equipment ID:	P047
Superseded Permit Number:	P0135192
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P062
Company Equipment ID:	New Door Sidelite Bonding Line
Superseded Permit Number:	P0135192
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P063
Company Equipment ID:	Line #10: C1YX-2 Bl Line
Superseded Permit Number:	P0134449
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P064
Company Equipment ID:	Cold End Glass Scoring Stations (12 stations using Naptha)
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P065
Company Equipment ID:	Window Priming and Assembly Line 9 (Nissan Backlite)
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P066
Company Equipment ID:	Window Priming and Assembly New Line 12 (Slate Backlite)
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable

Group Name:1&5 DBO Silk Screen Printing

Emissions Unit ID:	P019
Company Equipment ID:	1 DBO-A
Superseded Permit Number:	P0135192
General Permit Category and Type:	Not Applicable P0135192
Emissions Unit ID:	P020
Company Equipment ID:	1 DBO-B
Superseded Permit Number:	P0135192
General Permit Category and Type:	Not Applicable P0135192
Emissions Unit ID:	P021
Company Equipment ID:	5 DBO-A
Superseded Permit Number:	P0135192
General Permit Category and Type:	Not Applicable P0135192
Emissions Unit ID:	P022
Company Equipment ID:	5 DBO-B
Superseded Permit Number:	P0135192
General Permit Category and Type:	Not Applicable P0135192
Emissions Unit ID:	P054
Company Equipment ID:	21 DBL
Superseded Permit Number:	P0135192
General Permit Category and Type:	Not Applicable P0135192

Group Name:Silk Screen Printing VAW, HPB

Emissions Unit ID:	P023
Company Equipment ID:	2 VAW
Superseded Permit Number:	P0135192
General Permit Category and Type:	Not Applicable P0135192
Emissions Unit ID:	P024
Company Equipment ID:	21 HPB
Superseded Permit Number:	P0135192
General Permit Category and Type:	Not Applicable P0135192
Emissions Unit ID:	P025
Company Equipment ID:	20 HPB
Superseded Permit Number:	P0135192
General Permit Category and Type:	Not Applicable P0135192
Emissions Unit ID:	P026
Company Equipment ID:	6 VAW
Superseded Permit Number:	P0135192
General Permit Category and Type:	Not Applicable P0135192

Emissions Unit ID:	P027
Company Equipment ID:	19 HPB-B
Superseded Permit Number:	P0135192
General Permit Category and Type:	Not Applicable P0135192
Emissions Unit ID:	P028
Company Equipment ID:	19 HPB-A
Superseded Permit Number:	P0135192
General Permit Category and Type:	Not Applicable P0135192

Group Name:Window and Door Assembly Lines

Emissions Unit ID:	P055
Company Equipment ID:	Window Assembly Cell/Line 26A
Superseded Permit Number:	P0135192
General Permit Category and Type:	Not Applicable P0135192
Emissions Unit ID:	P057
Company Equipment ID:	Window Assembly Cell/Line 24
Superseded Permit Number:	P0135192
General Permit Category and Type:	Not Applicable P0135192
Emissions Unit ID:	P058
Company Equipment ID:	Window Priming and Assembly Line 23 (Slate Windshield)
Superseded Permit Number:	P0135192
General Permit Category and Type:	Not Applicable P0135192
Emissions Unit ID:	P060
Company Equipment ID:	Window Assembly Cell/Line 27A&B
Superseded Permit Number:	P0135192
General Permit Category and Type:	Not Applicable P0135192
Emissions Unit ID:	P061
Company Equipment ID:	Door Window Assembly Cell/Line 4
Superseded Permit Number:	P0135192
General Permit Category and Type:	Not Applicable P0135192

Group Name:Window Assembly Line #1

Emissions Unit ID:	P031
Company Equipment ID:	Window Assy Line #3
Superseded Permit Number:	P0135192
General Permit Category and Type:	Not Applicable P0135192
Emissions Unit ID:	P032
Company Equipment ID:	Window Assy Line #4

Superseded Permit Number:	P0135192
General Permit Category and Type:	Not Applicable P0135192
Emissions Unit ID:	P033
Company Equipment ID:	Window Assy Line #5
Superseded Permit Number:	P0135192
General Permit Category and Type:	Not Applicable P0135192
Emissions Unit ID:	P034
Company Equipment ID:	Window Assy Line #6
Superseded Permit Number:	P0135192
General Permit Category and Type:	Not Applicable P0135192
Emissions Unit ID:	P035
Company Equipment ID:	Window Assy Line #7
Superseded Permit Number:	P0135192
General Permit Category and Type:	Not Applicable P0135192
Emissions Unit ID:	P036
Company Equipment ID:	Window Assembly Line #8
Superseded Permit Number:	P0135192
General Permit Category and Type:	Not Applicable P0135192
Emissions Unit ID:	P040
Company Equipment ID:	Window Assy Line #12
Superseded Permit Number:	P0135192
General Permit Category and Type:	Not Applicable P0135192

Group Name:Window Assembly Line #2

Emissions Unit ID:	P041
Company Equipment ID:	P041
Superseded Permit Number:	P0135192
General Permit Category and Type:	Not Applicable P0135192
Emissions Unit ID:	P043
Company Equipment ID:	Window Assembly Line #15
Superseded Permit Number:	P0135192
General Permit Category and Type:	Not Applicable P0135192

List of Commonly Used Abbreviations

AP-42 = U.S. EPA's Compilation of Air Pollution Emissions Factors	HVLP = high volume, low pressure	PER = Permit Evaluation Report
ASTM = American Society for Testing and Materials	LAER = lowest achievable emission rate	PM = particulate matter
BACT = Best Available Control Technology	lb(s)/hr = pound(s) per hour	PM ₁₀ = particulate matter with an aerodynamic diameter less than or equal to 10 microns
BAT = Best Available Technology	LDAR = leak detection and repair	PM _{2.5} = particulate matter with an aerodynamic diameter less than or equal to 2.5 microns
CAA = Clean Air Act	LPG = liquefied petroleum gas/propane	ppb = parts per billion
CAM = compliance assurance monitoring	MACT = maximum achievable control technology	ppm = parts per million
CEMS = continuous emissions monitoring system	MAGLC = maximum acceptable ground level concentration	PSD = Prevention of Significant Deterioration
CFC = chlorofluorocarbon	mg/m ³ = milligrams per cubic meter	psi = pounds per square inch
CFR = Code of Federal Regulations	MM = million	psia = pounds per square inch absolute
CH ₄ = methane	MMBtu = million British Thermal Units	PTE = potential-to-emit
CI = compression ignition	MSDS = material safety data sheet	PTI = Permit-to-Install
CO = carbon monoxide	MSW = municipal solid waste	PTIO = Permit-to-Install and Operate
CO ₂ = carbon dioxide	NAAQS = National Ambient Air Quality Standard	PTO = Permit-to-Operate
COM = continuous opacity monitor	NESHAP = National Emission Standard for Hazardous Air Pollutants	PWR = process weight rate
DAPC = Division of Air Pollution Control	NG = natural gas	RACM = reasonably available control measures
DO/LAA = District Office/Local Air Agency	ng/m ³ = nanograms per cubic meter	RACT = reasonably available control technology
dscf = dry standard cubic foot	NH ₃ = ammonia	RATA = relative accuracy test audit
EAC = emissions activity category	NMHC = non-methane hydrocarbons	RTO = regenerative thermal oxidizer
eDocs = electronic documents database	NMOC = non-methane organic compound	SB265 = Senate Bill 265
ERAC = Environmental Review Appeals Commission	NO = nitrogen oxide	scfm = standard cubic feet per minute
ESP = electrostatic precipitator	NO ₂ = nitrogen dioxide	SI = spark ignition
EU = emissions unit	NO _x = nitrogen oxides	SIP = State Implementation Plan
FEPTIO = Federally Enforceable Permit-to-Install and Operate	NSPS = New Source Performance Standard	SO ₂ = sulfur dioxide
FER = Fee Emissions Report	NSR = New Source Review	SSMP = startup, shutdown, and malfunction plan
FR = Federal Register	NTV = Non-Title V	TDS = total dissolved solids
GACT = generally achievable control technology	O&M = operation and maintenance	TLV = threshold limit value
GHG = greenhouse gases	OAC = Ohio Administrative Code	TO = thermal oxidizer
gr/dscf = grains per dry standard cubic foot	OC = organic compound	TPH = ton(s) per hour
H ₂ S = hydrogen sulfide	Ohio EPA = Ohio Environmental Protection Agency	TPY = ton(s) per year
H ₂ SO ₄ = sulfuric acid	ORC = Ohio Revised Code	TSP = total suspended particulates
HAP = hazardous air pollutant	Pb = lead	VE = visible emissions
HCl = hydrogen chloride	PBR = Permit-By-Rule	VMT = vehicle miles traveled
HF = hydrogen fluoride	PCB = polychlorinated biphenyl	VOC = volatile organic compound
Hg = mercury	PE = particulate emissions	WPP = work practice plan
hp = horsepower	PEMS = predictive emissions monitoring system	µg/m ³ = micrograms per cubic meter

A. Standard Terms and Conditions

1. What does this permit-to-install and operate (PTIO) allow me to do?

This permit allows you to install and operate the emissions unit(s) identified in this PTIO. You must install and operate the unit(s) in accordance with the application you submitted and all the terms and conditions contained in this PTIO, including emission limits and those terms that ensure compliance with the emission limits (for example, operating, recordkeeping and monitoring requirements).

2. Who is responsible for complying with this permit?

The person identified on the "Authorization" page, above, is responsible for complying with this permit until the permit is revoked, terminated, or transferred. "Person" means a person, firm, corporation, association, or partnership. The words "you," "your," or "permittee" refer to the "person" identified on the "Authorization" page above.

The permit applies only to the emissions unit(s) identified in the permit. If you install or modify any other equipment that requires an air permit, you must apply for an additional PTIO(s) for these sources.

3. What records must I keep under this permit?

You must keep all records required by this permit, including monitoring data, test results, strip-chart recordings, calibration data, maintenance records, and any other record required by this permit for five years from the date the record was created. You can keep these records electronically, provided they can be made available to Ohio EPA during an inspection at the facility. Failure to make requested records available to Ohio EPA upon request is a violation of this permit requirement.

4. What are my permit fees and when do I pay them?

There are two fees associated with permitted air contaminant sources in Ohio:

- a) PTIO fee. This one-time fee is based on a fee schedule in accordance with Ohio Revised Code (ORC) section 3745.11 or based on a time and materials charge for permit application review and permit processing if required by the Director.

You will be sent an invoice for this fee after you receive this PTIO and payment is due within 30 days of the invoice date. You are required to pay the fee for this PTIO even if you do not install or modify your operations as authorized by this permit.

- b) Annual emissions fee. Ohio EPA will assess a separate fee based on the total annual emissions from your facility. You self-report your emissions in accordance with Ohio Administrative Code (OAC) Chapter 3745-78. This fee assessed is based on a fee schedule in ORC section 3745.11 and funds Ohio EPA's permit compliance oversight activities. For facilities that are permitted as synthetic minor sources, the fee schedule is adjusted annually for inflation. Ohio EPA will notify you when it is time to report your emissions and to pay your annual emission fees.

5. When does my PTIO expire, and when do I need to submit my renewal application?

This permit expires on the date identified at the beginning of this permit document (see "Authorization" page above) and you must submit a renewal application to renew the permit. Ohio EPA will send a renewal notice to you approximately six months prior to the expiration date of this permit. However, it is very important that you submit a complete renewal permit application (either electronically through Ohio EPA's eBusiness Center: Air Services web service or postmarked prior to expiration of this permit) even if you do not receive the renewal notice.

If a complete renewal application is submitted before the expiration date, Ohio EPA considers this a timely application for purposes of ORC section 119.06, and you are authorized to continue operating the emissions unit(s) covered by this permit beyond the expiration date of this permit until final action is taken by Ohio EPA on the renewal application.

6. What happens to this permit if my project is delayed or I do not install or modify my source?

This PTIO expires 18 months after the issue date identified on the "Authorization" page above unless otherwise specified if you have not (1) started constructing the new or modified emission sources identified in this permit, or (2) entered into a binding contract to undertake such construction. This deadline can be extended once by 12 months, provided you apply to Ohio EPA for this extension within a reasonable time before the 18-month period has ended and you can show good cause for any such extension.

7. What reports must I submit under this permit?

An annual permit evaluation report (PER) is required in addition to any malfunction reporting required by OAC rule 3745-15-06 or other specific rule-based reporting requirement identified in this permit. Your PER due date is identified in the Authorization section of this permit.

8. If I am required to obtain a Title V operating permit in the future, what happens to the operating provisions and permit evaluation report (PER) obligations under this permit?

If you are required to obtain a Title V permit under OAC Chapter 3745-77 in the future, the permit-to-operate portion of this permit will be superseded by the issued Title V permit. From the effective date of the Title V permit forward, this PTIO will effectively become a PTI (permit-to-install) in accordance with OAC rule 3745-31-02(B). The following terms and conditions of this permit will no longer be applicable after issuance of the Title V permit: Section B, Term 1.b) and Section C, for each emissions unit, Term a)(2).

The PER requirements in this permit remain effective until the date the Title V permit is issued and is effective and cease to apply after the effective date of the Title V permit. The final PER obligation will cover operations up to the effective date of the Title V permit and must be submitted on or before the submission deadline identified in this permit on the last day prior to the effective date of the Title V permit.

9. What are my obligations when I perform scheduled maintenance on air pollution control equipment?

You must perform scheduled maintenance of air pollution control equipment in accordance with OAC rule 3745-15-06(A). If scheduled maintenance requires shutting down or bypassing any air pollution control equipment, you must also shut down the emissions unit(s) served by the air pollution control equipment during maintenance, unless the conditions of OAC rule 3745-15-06(A)(3) are met. Any emissions that exceed permitted amount(s) under this permit (unless specifically exempted by rule) must be reported as deviations in the annual permit evaluation report (PER), including nonexempt excess emissions that occur during approved scheduled maintenance.

10. Do I have to report malfunctions of emissions units or air pollution control equipment? If so, how must I report?

If you have a reportable malfunction of any emissions unit(s) or any associated air pollution control system, you must report this to the Ohio EPA DAPC, Northwest District Office in accordance with OAC rule 3745-15-06(B). Malfunctions that must be reported are those that result in emissions that exceed permitted emission levels. It is your responsibility to evaluate control equipment breakdowns and operational upsets to determine if a reportable malfunction has occurred.

If you have a malfunction but determine that it is not a reportable malfunction under OAC rule 3745-15-06(B), it is recommended that you maintain records associated with control equipment breakdown or process upsets. Although it is not a requirement of this permit, Ohio EPA recommends that you maintain records for non-reportable malfunctions.

11. Can Ohio EPA or my local air agency inspect the facility where the emission unit(s) is/are located?

Yes. Under Ohio law, the Director or his/her authorized representative may inspect the facility, conduct tests, examine records or reports to determine compliance with air pollution laws and regulations and the terms and conditions of this permit. You must provide, within a reasonable time, any information Ohio EPA requests either verbally or in writing.

12. What happens if one or more emissions units operated under this permit is/are shut down permanently?

Ohio EPA can terminate the permit terms associated with any permanently shut down emissions unit. "Shut down" means the emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31.

You should notify Ohio EPA of any emissions unit that is permanently shut down by submitting a certification that identifies the date on which the emissions unit was permanently shut down. The certification must be submitted by an authorized official from the facility. You cannot continue to operate an emission unit once the certification has been submitted to Ohio EPA by the authorized official.

You must comply with all recordkeeping and reporting for any permanently shut down emissions unit in accordance with the provisions of the permit, regulations or laws that were enforceable during the period of operation, such as the requirement to submit a PER, air fee emission report, or malfunction report. You must also keep all records relating to any permanently shut down emissions unit, generated while the emissions unit was in operation, for at least five years from the date the record was generated.

Again, you cannot resume operation of any emissions unit certified by the authorized official as being permanently shut down without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31.

13. Can I transfer this permit to a new owner or operator?

You can transfer this permit to a new owner or operator. If you transfer the permit, the new owner or operator must follow the procedures in OAC Chapter 3745-31-07, including notifying Ohio EPA or the local air agency of the change in ownership or operator within thirty days of the transfer date. Any transferee of this permit shall assume the responsibilities of the transferor permit holder.

14. Does compliance with this permit constitute compliance with OAC rule 3745-15-07, "air pollution nuisance"?

This permit and OAC rule 3745-15-07 prohibit operation of the air contaminant source(s) regulated under this permit in a manner that causes a nuisance. Ohio EPA can require additional controls or modification of the requirements of this permit through enforcement orders or judicial enforcement action if, upon investigation, Ohio EPA determines existing operations are causing a nuisance.

15. What happens if a portion of this permit is determined to be invalid?

If a portion of this permit is determined to be invalid, the remainder of the terms and conditions remain valid and enforceable. The exception is where the enforceability of terms and conditions are dependent on the term or condition that was declared invalid.

B. Facility-Wide Terms and Conditions

1. This permit document constitutes a PTI issued in accordance with ORC 3704.03(F) and a PTO issued in accordance with ORC 3704.03(G).
 - a) For the purpose of a PTI document, the facility-wide T&C identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (1) None.
 - b) For the purpose of a PTO document, the facility-wide T&C identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (1) None.
2. All applications, notifications or reports required *in writing* are to be submitted through Ohio EPA's eBusiness Center: Air Services online web portal. Hardcopy submissions will be accepted on an as-needed basis if the permittee cannot submit the required documents through Air Services. In the event of a hardcopy submission, the post-marked date or the date the document is delivered in person will be recognized as the date submitted. Electronic submittal of applications, notifications or reports to Ohio EPA fulfills the requirement to submit information to the Director, the Northwest District Office, and/or any other individual or organization identified as a recipient unless otherwise specified in this permit. Consistent with OAC rule 3745-15-03, the application, notification or report is considered *submitted* on the date the submittal is successful using a valid electronic signature. Signature by the signatory authority may be represented as provided through procedures established in Air Services.

C. Emissions Unit Terms and Conditions

1. P007, 100 LB/HR SANDBLASTER

Operations, Property and/or Equipment Description:

100 lb/hr sandblaster with baghouse

- a) This permit document constitutes a PTI issued in accordance with ORC 3704.03(F) and a PTO issued in accordance with ORC 3704.03(G).

- (1) For the purpose of a PTI document, the EU T&C identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

- (2) For the purposes of a PTO document, the EU T&C identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. None.

- b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	0.07 lb of PE/hr and 0.30 ton of PE/yr See b)(2)a. and b)(2)b.
b.	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
c.	OAC rule 3745-17-11(B)(1)	See b)(2)c.

- (2) Additional Terms and Conditions

- a. BAT requirements for this emission unit have been determined to be the use of a baghouse and compliance with the terms and conditions of this permit.
- b. All PE are considered equivalent to PM₁₀.
- c. The emission limitation established pursuant to this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

- c) Operational Restrictions

- (1) None.



d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emissions incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

e) Reporting Requirements

- (1) The permittee shall submit an annual PER to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this permit. The PER shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.
- (2) The permittee shall identify the following information in the annual PER in accordance with the monitoring requirements for visible emissions in term number d)(1) above:
 - a. all times during which any visible particulate emissions were observed from the stack serving this emissions unit; and
 - b. any corrective actions taken to eliminate the visible particulate emissions.

The above information shall be provided as an attachment to the PER. If there are no day(s) and/or corrective action(s) to identify as required above, the permittee shall indicate within the "Additional Information and Corrections" section of the PER that no visible emissions were observed and no corrective actions were taken.

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitations:

0.07 lb of PE/hr and 0.30 ton of PE/yr

Applicable Compliance Method:

The hourly emission limitation was developed by multiplying the PE emission factor of 69 lbs of PE/1,000 lbs sand used* by the maximum process weight rate of 100 lbs of sand/hr, then applying the control efficiency of 99 percent.

*based on emission factor in AP-42, Table 13.2.6-1



If required, the permittee shall demonstrate compliance with the hourly emission limitation by testing in accordance with Methods 1-4 of 40 CFR, Part 60, Appendix A, and Methods 201, 201A and 202 of 40 CFR, Part 51, Appendix M.

The annual PE limitation was developed by multiplying the hourly PE limitation by the maximum operating schedule of 8,760 hrs/yr and dividing by 2,000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance with the annual limitation shall also be demonstrated.

b. Emission Limitation:

Visible PE shall not exceed 20% opacity, as a 6-minute average

Applicable Compliance Method:

If required, compliance with the visible emission limitation specified above shall be determined in accordance with Method 9 of 40 CFR, Part 60, Appendix A.

g) Miscellaneous Requirements

(1) None.

2. P047, P047

Operations, Property and/or Equipment Description:

Window Assembly Line #19

- a) This permit document constitutes a PTI issued in accordance with ORC 3704.03(F) and a PTO issued in accordance with ORC 3704.03(G).
- (1) For the purpose of a PTI document, the EU T&C identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
- a. b)(1)d. and d)(5).
- (2) For the purposes of a PTO document, the EU T&C identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
- a. b)(1)c., b)(2)c., c)(1), c)(2), c)(3), d)(2), d)(3), d)(4), e)(1), f)(1)b. and f)(1)c.
- b) Applicable Emissions Limitations and/or Control Requirements
- (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	7.30 tons VOC per year from the coating and adhesive operations. See b)(2)a.
b.	OAC rule 3745-21-07(M)	See b)(2)b.
c.	OAC rule 3745-31-05(D)	93.86 tons VOC per rolling, 12-month period for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P064-P066 combined. 9.90 tons per rolling, 12-month period for any individual HAP and 24.90 tons per rolling, 12-month period for any combination of HAPs for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P065-P066 combined



		See b)(2)c.
d.	ORC 3704.03(F) OAC rule 3745-114-01	See d)(5)

(2) Additional Terms and Conditions

- a. Emissions from cleanup operations for an individual window assembly line are negligible and therefore, have not been addressed by an individual emission limitation for each window assembly line. Emissions from cleanup operations are included in the combined VOC limitation established under OAC rule 3745-31-05(D).
- b. This emissions unit is not subject to the requirements of the rule because it does not meet all of the conditions outlined in OAC rule 3745-21-07(M)(3)(a).
- c. The federally enforceable limitations in b)(1)c. are based on VOC and HAP contents and gallon usage restrictions for the purpose of avoiding Title V applicability [See c)(1), c)(2) and c)(3)].

Federally enforceable limitations for VOC and HAPs were initially established in Permit-to-Install 03-13402 issued on 2/27/2001 and, as such, the facility has existing records for VOC and HAP emissions.

c) Operational Restrictions

- (1) The permittee shall not employ any coating, as applied, in excess of 7.0 lbs VOC/gallon (process coatings) and 11.0 lbs VOC/gallon (machinist ink and/or special-order process coatings).
- (2) The maximum annual coating usage for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P064-P066 combined shall not exceed any of the following:
 - a. 3,050 gallons of coating with a maximum VOC content of 11.0 lbs/gallon of coating;
 - b. 25,067 gallons of coating with a maximum VOC content of 7.0 lbs/gallon of coating; and
 - c. 25,067 gallons for all coatings combined.

Compliance with the annual coating usage limitation shall be based upon a rolling, 12-month summation of the monthly coating usage rates.

- d. Combined annual HAP emissions from emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P065-P066 shall not exceed 9.90 tons per year for any individual HAP and 24.90 tons per year for any combination HAPs, based upon rolling, 12-month summations of the monthly HAP emissions.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall collect and record the following information each month for this emissions unit:
 - a. the name and identification for each coating and adhesive material employed;



- b. the VOC content of each coating and adhesive material, in lbs VOC/gallon;
 - c. the number of gallons of each coating and adhesive material employed;
 - d. the VOC emission rate for each coating and adhesive material, in tons/month $[d)(1)b. \times d)(1)c. \times 1 \text{ ton}/2000 \text{ lbs.}]$;
 - e. the total VOC emission rate for all coatings and adhesive materials [summation of $d)(1)d.$ in tons per month]; and
 - f. The annual, year to date, summation of the VOC emissions, in tons [summation of $d)(1)e.$ for each calendar month to date from January to December].
- (2) The permittee shall collect and record the following information each month for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P064-P066 combined:
- a. the company identification for each coating and cleanup material employed;
 - b. the VOC content of each coating and cleanup material, in lbs VOC/gallon;
 - c. the number of gallons of each coating and cleanup material employed;
 - d. the VOC emission rate for each coating and cleanup material $[d)(2)b. \times d)(2)c. \times 1 \text{ ton}/2000 \text{ lbs.}]$ in tons/month;
 - e. the total VOC emission rate for all coatings and cleanup materials [summation of $d)(2)d.$ in tons per month]; and
 - f. the rolling, 12-month summation of the VOC emissions, in tons.
- (3) In addition to the above information, the permittee shall also record the following information for each month for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P064-P066 combined:
- a. The annual* number of gallons of coatings with a maximum VOC content of 7.0 lbs/gallon of coating;
 - b. The annual* number of gallons of coatings with a maximum VOC content of 11.0 lbs/gallon of coating; and
 - c. The annual* number of gallons of all coatings.
- *Based upon a rolling, 12-month summation of the coating usage rates.
- (4) The permittee shall collect and record the following information regarding HAPs emissions each month for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P065-P066 combined:
- a. the company identification of each coating and cleanup material employed;
 - b. the lbs per gallon of each HAP in each coating and cleanup material, as applied;
 - c. the number of gallons of each coating and cleanup material employed;



- d. the emission rate for each HAP from each coating and cleanup material employed [d)(4)b. x d)(4)c. in lbs/month];
 - e. the total emission rate for each HAP from all coatings and cleanup materials employed [summation of d)(4)d.] in lbs/month;
 - f. the total HAP emissions rate for all combined HAPs from all coatings and cleanup materials employed [summation of d)(4)e.] in lbs/month; and
 - g. the rolling, 12-month summations for each individual HAP and all combined HAPs emissions, in tons.
- (5) Modeling to demonstrate compliance with, the “Toxic Air Contaminant Statute”, ORC 3704.03(F)(4)(b), was not necessary because the emissions unit’s maximum annual emissions for each toxic air contaminant, as defined in OAC rule 3745-114-01, will be less than 1.0 ton per year. OAC Chapter 3745-31 requires a permittee to apply for and obtain a new or modified FEPTIO prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any toxic air contaminant to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new FEPTIO.
- e) Reporting Requirements
- (1) The permittee shall submit quarterly deviation (excursion) reports that identify:
- a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the PTE of any regulated air pollutant and have been detected by the monitoring, recordkeeping and/or testing requirements in this permit:
 - i. the rolling, 12-month VOC emission limitation of 93.86 tons;
 - ii. the maximum allowable gallon usage rates and VOC content limitations specified in paragraphs c)(1) and c)(2); and
 - iii. the maximum emissions limitations for each individual HAP and total combined HAPs specified in paragraph c)(3).
 - b. the probable cause of each deviation (excursion);
 - c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
 - d. the magnitude and duration of each deviation (excursion).
- If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.
- The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the Northwest District Office). \



- (2) The permittee shall submit an annual PER to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this permit. The PER shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.
- f) Testing Requirements
- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
7.30 tons VOC/yr from coating and adhesive operations.
Applicable Compliance Method:
Compliance shall be based on the recordkeeping requirements as specified in d)(1).
 - b. Emission Limitation:
Group limit of 93.86 tons VOC per rolling, 12-month period based on coating and cleanup usage and VOC content restrictions.
Applicable Compliance Method:
Compliance shall be based on the recordkeeping requirements as specified in d)(2) and d)(3).
 - c. Emission Limitation:
Group limit of 9.90 tons per rolling, 12-month period of any individual HAP and 24.90 tons per rolling, 12-month period of any combination of HAPs.
Applicable Compliance Method:
Compliance shall be based on the recordkeeping requirements as specified in d)(4).
- g) Miscellaneous Requirements
- (1) None.



3. P062, New Door Sidelite Bonding Line

Operations, Property and/or Equipment Description:

Door sidelite bonding line

- a) This permit document constitutes a PTI issued in accordance with ORC 3704.03(F) and a PTO issued in accordance with ORC 3704.03(G).
- (1) For the purpose of a PTI document, the EU T&C identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
- a. b)(1)d., d)(5) through d)(8), and e)(3).
- (2) For the purposes of a PTO document, the EU T&C identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
- a. b)(1)c., b)(2)b., c)(1), c)(2), c)(3), d)(2), d)(3), e)(1), f)(1)b. and f)(1)c.
- b) Applicable Emissions Limitations and/or Control Requirements
- (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) ORC 3704.03(T)	1,260 lbs VOC/month, averaged over a twelve-month rolling period for coating and cleanup materials.
b.	OAC rule 3745-21-07(M)	See b)(2)a.
c.	OAC rule 3745-31-05(D)	93.86 tons VOC per rolling, 12-month period for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P064-P066 combined. 9.90 tons per rolling, 12-month period for any individual HAP and 24.90 tons per rolling, 12-month period for any combination of HAPs for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P065-P066 combined See b)(2)b.



d.	ORC 3704.03(F) OAC rule 3745-114-01	See d)(5) through d)(8) and e)(3).
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(2) Additional Terms and Conditions

- a. This emissions unit is not subject to the requirements of this rule because it does not meet all of the conditions outlined in OAC rule 3745-21-07(M)(3)(a).
- b. The federally enforceable limitations in b)(1)c. are based on VOC and HAP contents and gallon usage restrictions for the purpose of avoiding Title V applicability [See c)(1), c)(2) and c)(3)].

Federally enforceable limitations for VOC and HAPs were initially established in Permit-to-Install 03-13402 issued on 2/27/2001 and, as such, the facility has existing records for VOC and HAP emissions.

c) Operational Restrictions

- (1) The permittee shall not employ any coating, as applied, in excess of 7.0 lbs VOC/gallon (process coatings) and 11.0 lbs VOC/gallon (machinist ink and/or special-order process coatings).
- (2) The maximum annual coating usage for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, P064-P066 combined shall not exceed any of the following:
 - a. 3,050 gallons of coating with a maximum VOC content of 11.0 lbs/gallon of coating;
 - b. 25,067 gallons of coating with a maximum VOC content of 7.0 lbs/gallon of coating; and
 - c. 25,067 gallons for all coatings combined.

Compliance with the annual coating usage limitation shall be based upon a rolling, 12-month summation of the monthly coating usage rates.

- (3) Combined annual HAP emissions from emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063 and P065-P066 shall not exceed 9.90 tons per year for any individual HAP and 24.90 tons per year for any combination HAPs, based upon rolling, 12-month summations of the monthly HAP emissions.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall collect and record the following information for each emission unit:
 - a. the company identification for each coating and cleanup material employed;
 - b. the VOC content of each coating and cleanup material, in lbs VOC/gallon;
 - c. the number of gallons of each coating and cleanup material employed;



- d. the VOC emission rate for each coating and cleanup material [d)(1)b. x d)(1)c. x 1 ton/2000 lbs.] in tons/month;
 - e. the total VOC emission rate for all coatings and cleanup materials [summation of d)(1)d. in tons per month]; and
 - f. the total VOC emissions, in tons per month from coating and cleanup materials combined, averaged over a twelve-month rolling period [summation of d)(1)e. for the previous 12 months divided by 12].
- (2) The permittee shall collect and record the following information each month for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P064-P066 combined:
- a. the company identification for each coating and cleanup material employed;
 - b. the VOC content of each coating and cleanup material, in lbs VOC/gallon;
 - c. the number of gallons of each coating and cleanup material employed;
 - d. the VOC emission rate for each coating and cleanup material [d)(2)b. x d)(2)c. x 1 ton/2000 lbs.] in tons/month;
 - e. the total VOC emission rate for all coatings and cleanup materials [summation of d)(2)d. in tons per month]; and
 - f. the rolling, 12-month summation of the VOC emissions, in tons.
- (3) In addition to the above information, the permittee shall also record the following information for each month for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P064-P066 combined:
- a. The annual* number of gallons of coatings with a maximum VOC content of 7.0 lbs/gallon of coating;
 - b. The annual* number of gallons of coatings with a maximum VOC content of 11.0 lbs/gallon of coating; and
 - c. The annual* number of gallons of all coatings.
- *Based upon a rolling, 12-month summation of the coating usage rates.
- (4) The permittee shall collect and record the following information regarding HAPs emissions each month for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P065-P066 combined:
- a. the company identification of each coating and cleanup material employed;
 - b. the lbs per gallon of each HAP in each coating and cleanup material, as applied;



- c. the number of gallons of each coating and cleanup material employed;
 - d. the emission rate for each HAP from each coating and cleanup material employed [d)(4)b. x d)(4)c. in lbs/month];
 - e. the total emission rate for each HAP from all coatings and cleanup materials employed [summation of d)(4)d.] in lbs/month;
 - f. the total HAP emissions rate for all combined HAPs from all coatings and cleanup materials employed [summation of d)(4)e.] in lbs/month; and
 - g. the rolling, 12-month summations for each individual HAP and all combined HAPs emissions, in tons.
- (5) The FEPTIO application (A0060363) 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. The "Toxic Air Contaminant Statute", ORC 3704.03(F), was applied to this/these emissions unit(s) for each toxic air contaminant listed in OAC rule 3745-114-01, using data from the permit application; and modeling was performed for each toxic air contaminant(s) emitted at over one ton per year using an air dispersion model SCREEN3. The predicted 1-hour maximum ground-level concentration result(s) from the approved air dispersion model, was compared to the MAGLC, calculated as described in the Ohio EPA guidance document entitled "Review of New Sources of Air Toxic Emissions, Option A", as follows:
- a. the exposure limit, expressed as a time-weighted average concentration for a conventional 8-hour workday and a 40-hour workweek, for each toxic compound(s) emitted from the emissions unit, (as determined from the raw materials processed and/or coatings or other materials applied) has been documented from one of the following sources and in the following order of preference (TLV was and shall be used, if the chemical is listed):
 - i. TLV from the American Conference of Governmental Industrial Hygienists (ACGIH) "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices"; or
 - ii. STEL (short term exposure limit) or the ceiling value from the American Conference of Governmental Industrial Hygienists (ACGIH) "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices"; the STEL or ceiling value is multiplied by 0.737 to convert the 15-minute exposure limit to an equivalent 8-hour TLV.
 - b. The TLV is divided by ten to adjust the standard from the working population to the general public (TLV/10).
 - c. This standard is/was then adjusted to account for the duration of the exposure or the operating hours of the emissions unit, i.e., "X" hours per day and "Y" days per week,



from that of 8 hours per day and 5 days per week. The resulting calculation was (and shall be) used to determine the MAGLC:

$$TLV/10 \times 8/X \times 5/Y = 4 TLV/XY = MAGLC$$

- d. The following summarizes the results of dispersion modeling for the “worst-case” toxic contaminant for emissions unit P062:

Pollutant: hexamethylene diisocyanate (HDI)

TLV (mg/m³): 0.0344

Maximum Hourly Emission Rate (lb/hr): 0.003

Predicted 1-Hour Maximum Ground Level Concentration (µg/m³): 0.13

MAGLC (µg/m³): 0.82

The permittee has demonstrated that emissions of HDI from this emissions unit is calculated to be less than eighty percent of the MAGLC; any new raw material or processing agent shall not be applied without evaluating each component toxic air contaminant in accordance with the “Toxic Air Contaminant Statute”, ORC 3704.03(F).

- (6) Prior to making any physical changes to or changes in the method of operation of the emissions unit(s), that could impact the parameters or values that were used in the predicted 1-hour maximum ground-level concentration, the permittee shall re-model the change(s) to demonstrate that the MAGLC has not been exceeded. Changes that can affect the parameters/values used in determining the 1-hour maximum ground-level concentration include, but are not limited to, 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 new toxic air contaminant with a lower TLV than the lowest TLV 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 toxic air contaminant listed in OAC rule 3745-114-01, that was modeled from the initial (or last) application; and
 - c. physical changes to the emissions unit(s) or its/their exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the “Toxic Air Contaminant Statute” will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a “modification” under OAC rule 3745-31-01 solely due to a non-restrictive change to a parameter or process operation, where compliance with the “Toxic Air Contaminant Statute”, ORC 3704.03(F), has been documented. If the change(s) meet(s) the definition of a “modification”, the permittee shall apply for and obtain a final FEPTIO prior to the change. The Director may consider any

significant departure from the operations of the emissions unit, described in the permit application, as a modification that results in greater emissions than the emissions rate modeled to determine the ground level concentration; and he/she may require the permittee to submit a permit application for the increased emissions.

- (7) The permittee shall collect, record, and retain the following information for each toxic evaluation conducted to determine compliance with the “Toxic Air Contaminant Statute”, ORC 3704.03(F):

- a. a description of the parameters/values used in each compliance demonstration and the parameters or values changed for any re-evaluation of the toxic(s) modeled (the composition of materials, new toxic contaminants emitted, change in stack/exhaust parameters, etc.);
- b. the MAGLC for each significant toxic contaminant or worst-case contaminant, calculated in accordance with the “Toxic Air Contaminant Statute”, ORC 3704.03(F);
- c. a copy of the computer model run(s), that established the predicted 1-hour maximum ground-level concentration that demonstrated the emissions unit(s) to be in compliance with the “Toxic Air Contaminant Statute”, ORC 3704.03(F), initially and for each change that requires re-evaluation of the toxic air contaminant emissions; and
- d. the documentation of the initial evaluation of compliance with the “Toxic Air Contaminant Statute”, ORC 3704.03(F), and documentation of any determination that was conducted to re-evaluate compliance due to a change made to the emissions unit or the materials applied.

- (8) The permittee shall maintain a record of any change made to a parameter or value used in the dispersion model, used to demonstrate compliance with the “Toxic Air Contaminant Statute”, ORC 3704.03(F), through the predicted 1-hour maximum ground-level concentration. The record shall include the date and reason(s) for the change and if the change would increase the ground-level concentration.

e) **Reporting Requirements**

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify:
- a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:
 - i. the rolling, 12-month VOC emission limitation of 93.86 tons;
 - ii. the maximum allowable gallon usage rates and VOC content limitations specified in paragraphs c)(1) and c)(2); and



- iii. the maximum emissions limitations for each HAP and total combined HAPs specified in paragraph c)(3).
- b. the probable cause of each deviation (excursion);
- c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
- d. the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the Northwest District Office).

- (2) The permittee shall submit an annual PER to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this permit. The PER shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.
- (3) The permittee shall include any changes made to a parameter or value used in the dispersion model, that was used to demonstrate compliance with the Toxic Air Contaminant Statute, ORC 3704.03(F), through the predicted 1-hour maximum ground-level concentration, in the annual PER. If no changes to the emissions, emissions unit(s), or the exhaust stack have been made, then the report shall include a statement to this effect.

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:

1,260 lbs of VOC/month, from coating and cleanup materials averaged over a 12-month rolling period.

Applicable Compliance Method:

Compliance shall be based on the recordkeeping requirements as specified in d)(1).

b. Emission Limitation:

93.86 tons VOC per rolling, 12-month period for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P064-P066 combined.



Applicable Compliance Method:

Compliance shall be based on the recordkeeping requirements as specified in d)(2) and d)(3).

c. Emission Limitation:

9.90 tons per rolling, 12-month period for any individual HAP and 24.90 tons per rolling, 12-month period for any combination of HAPs for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P065-P066 combined

Applicable Compliance Method:

Compliance shall be based on the recordkeeping requirements as specified in d)(4).

g) Miscellaneous Requirements

(1) None.

4. P063, Line #10: C1YX-2 Bl Line

Operations, Property and/or Equipment Description:

Line #10 Window Assembly Line

- a) This permit document constitutes a PTI issued in accordance with ORC 3704.03(F) and a PTO issued in accordance with ORC 3704.03(G).
- (1) For the purpose of a PTI document, the EU T&C identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
- a. b)(1)d. and d)(4).
- (2) For the purposes of a PTO document, the EU T&C identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
- a. b)(1)a., b)(2)a., c)(1) - c)(3), d)(1) - d)(3), e)(1), f)(1)a. and f)(1)b.
- b) Applicable Emissions Limitations and/or Control Requirements
- (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(D)	93.86 tons VOC per rolling, 12-month period for emission units K004, P019-P028, P031-P036, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P064-P066 combined. 9.90 tons per rolling, 12-month period for any individual HAP and 24.90 tons per rolling, 12-month period for any combination of HAPs for emission units K004, P019-P028, P031-P036, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P065-P066 combined. See b)(2)a.
b.	OAC rule 3745-31-05(A)(3)(a)(ii)	The BAT requirements under OAC rule 3745-31-05(A)(3) do not apply to VOC emissions from this emissions unit since the potential to emit (PTE) is less than 10 tons per year.
c.	OAC rule 3745-21-07(M)	See b)(2)b.



d.	ORC 3704.03(F) OAC rule 3745-114-01	See d)(4).
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(2) Additional Terms and Conditions

- a. The federally enforceable limitations in b)(1)a. are based on VOC and HAP contents and gallon usage restrictions for the purpose of avoiding Title V applicability [See c)(1), c)(2) and c)(3)].

Federally enforceable limitations for VOC and HAPs were initially established in Permit-to-Install 03-13402 issued on 2/27/2001 and, as such, the facility has existing records for VOC and HAP emissions.

- b. This emissions unit is not subject to the requirements of this rule because it does not meet all the conditions outlined in OAC rule 3745-21-07(M)(3)(a).

c) Operational Restrictions

- (1) The permittee shall not employ any coating, as applied, more than 7.0 lbs VOC/gallon (process coatings) and 11.0 lbs VOC/gallon (machinist ink and/or special-order process coatings).

- (2) The maximum annual coating usage for emission units K004, P019-P028, P031-P036, P041, P043, P047, P054, P055, P057, P058, P060-P063, P064-P066 combined shall not exceed any of the following:

- a. 3,050 gallons of coating with a maximum VOC content of 11.0 lbs/gallon of coating;
b. 25,067 gallons of coating with a maximum VOC content of 7.0 lbs/gallon of coating; and
c. 25,067 gallons for all coatings combined.

Compliance with the annual coating usage limitation shall be based upon a rolling, 12-month summation of the monthly coating usage rates.

- (3) Combined annual HAP emissions from emission units K004, P019-P028, P031-P036, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P065-P066 shall not exceed 9.9 tons per year for any individual HAP and 24.9 tons per year for any combination HAPs, based upon rolling, 12-month summations of the monthly HAP emissions.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall collect and record the following information each month for emission units K004, P019-P028, P031-P036, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P064-P066 combined:

- a. the company identification for each coating and cleanup material employed;
b. the VOC content of each coating and cleanup material, in lbs VOC/gallon;
c. the number of gallons of each coating and cleanup material employed;
d. the VOC emission rate for each coating and cleanup material [d)(1)b. x d)(1)c. x 1 ton/2000 lbs.] in tons/month;



- e. the total VOC emission rate for all coatings and cleanup materials [summation of d)(1)d. in tons per month]; and
 - f. the rolling, 12-month summation of the VOC emissions, in tons.
- (2) In addition to the above information, the permittee shall also record the following information for each month for emission units K004, P019-P028, P031-P036, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P064-P066 combined:
- a. The annual* number of gallons of coatings with a maximum VOC content of 7.0 lbs/gallon of coating;
 - b. The annual* number of gallons of coatings with a maximum VOC content of 11.0 lbs/gallon of coating; and
 - c. The annual* number of gallons of all coatings.
- *Based upon a rolling, 12-month summation of the coating usage rates.
- (3) The permittee shall collect and record the following information regarding HAPs emissions each month for emission units K004, P019-P028, P031-P036, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P065-P066 combined:
- a. the company identification of each coating and cleanup material employed;
 - b. the lbs per gallon of each HAP in each coating and cleanup material, as applied;
 - c. the number of gallons of each coating and cleanup material employed;
 - d. the emission rate for each HAP from each coating and cleanup material employed [d)(3)b. x d)(3)c. in lbs/month];
 - e. the total emission rate for each HAP from all coatings and cleanup materials employed [summation of d)(3)d.] in lbs/month;
 - f. the total HAP emissions rate for all combined HAPs from all coatings and cleanup materials employed [summation of d)(3)e.] in lbs/month; and
 - g. the rolling, 12-month summations for each individual HAP and all combined HAPs emissions, in tons.
- (4) Modeling to demonstrate compliance with, the "Toxic Air Contaminant Statute", ORC 3704.03(F)(4)(b), was not necessary because the emissions unit's maximum annual emissions for each toxic air contaminant, as defined in OAC rule 3745-114-01, will be less than 1.0 ton per year. OAC Chapter 3745-31 requires a permittee to apply for and obtain a new or modified federally enforceable permit-to-install and operate prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any toxic air contaminant to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new federally enforceable Permit-to-Install and Operate.

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify:
 - a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the PTE of any regulated air pollutant and have been detected by the monitoring, recordkeeping and/or testing requirements in this permit:
 - i. the rolling, 12-month VOC emission limitation of 93.86 tons;
 - ii. the maximum allowable gallon usage rates and VOC content limitations specified in paragraphs c)(1) and c)(2); and
 - iii. the maximum emissions limitations for each individual HAP and total combined HAPs specified in paragraph c)(3).
 - b. the probable cause of each deviation (excursion);
 - c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
 - d. the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the Northwest District Office).

- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this permit. The PER shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation:

93.86 tons VOC per rolling, 12-month period (for emission units K004, P019-P028, P031-P036, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P064-P066 combined)

Applicable Compliance Method:

Compliance shall be based on the recordkeeping requirements as specified in d)(1) and d)(2).



b. Emission Limitation:

9.9 tons per rolling, 12-month period of any individual HAP and 24.9 tons per rolling, 12-month period of any combination of HAPs (for emission units K004, P019-P028, P031-P036, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P065-P066 combined)

Applicable Compliance Method:

Compliance shall be based on the recordkeeping requirements as specified in d)(3).

g) Miscellaneous Requirements

(1) None.

5. P064, Cold End Glass Scoring Stations (12 stations using Naptha)

Operations, Property and/or Equipment Description:

Cold End Glass Scoring Stations (12 stations using Naptha)

- a) This permit document constitutes a PTI issued in accordance with ORC 3704.03(F) and a PTO issued in accordance with ORC 3704.03(G).
- (1) For the purpose of a PTI document, the EU T&C identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
- a. None.
- (2) For the purposes of a PTO document, the EU T&C identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
- a. b)(1)b., b)(2)b., c)(1), c)(2), d)(2), d)(3), e)(1), and f)(1)b.
- b) Applicable Emissions Limitations and/or Control Requirements
- (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) ORC 3704.03(T)	2.22 tons VOC/month, averaged over a twelve-month rolling period for cold end glass scoring operations. See b)(2)a.
b.	OAC rule 3745-31-05(D)	93.86 tons VOC per rolling, 12-month period for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P064-P066 combined. See b)(2)b.
c.	OAC rule 3745-21-07(M)	This emissions unit is not subject to the requirements of this rule because it does not meet all the conditions outlined in OAC rule 3745-21-07(M)(3)(a).

(2) Additional Terms and Conditions

- a. The material used in this process (the product is a heavy hydrotreated naphtha), is a scoring fluid containing no Hazardous Air Pollutants (HAPs) or toxic air contaminants.



The heavy hydrotreating refining process used by the manufacturer strips out the aromatic compounds benzene, toluene, xylene, and ethylbenzene.

- b. The federally enforceable limitations in b)(1)b. are based on VOC and HAP contents and gallon usage restrictions for the purpose of avoiding Title V applicability [See c)(1) and c)(2)].

Federally enforceable limitation for VOC was initially established in Permit-to-Install 03-13402 issued on 2/27/2001 and, as such, the facility has existing records for VOC emissions in lieu of establishing monthly emission restrictions for the first year of operation.

c) Operational Restrictions

- (1) The permittee shall not employ any coating, as applied, more than 7.0 lbs VOC/gallon (process coatings) and 11.0 lbs VOC/gallon (machinist ink and/or special-order process coatings).
- (2) The maximum annual coating usage for emission units K004, P019-P028, P031-P036, P041, P043, P047, P054, P055, P057, P058, P060-P063, P064-P066 combined shall not exceed any of the following:
- a. 3,050 gallons of coating with a maximum VOC content of 11.0 lbs/gallon of coating;
 - b. 25,067 gallons of coating with a maximum VOC content of 7.0 lbs/gallon of coating; and
 - c. 25,067 gallons for all coatings combined.

Compliance with the annual coating usage limitation shall be based upon a rolling, 12-month summation of the monthly coating usage rates.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall collect and record the following information each month for P064 individually:
- a. the VOC content of glass scoring fluid, as applied, in pounds per gallon;
 - b. the number of gallons of glass scoring fluid employed;
 - c. the total VOC emission rate for the glass scoring fluid, in tons per month; and
 - d. the annual glass scoring fluid usage, based upon a rolling 12-month summation of the monthly usage rates;
 - e. the total VOC emissions, in tons per month from the glass scoring fluid employed in the emission unit, averaged over a twelve-month rolling period for cold end glass scoring operations [summation of d)(1)d. for the previous 12 months divided by 12].
- (2) The permittee shall collect and record the following information each month for emission units K004, P019-P028, P031-P036, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P064-P066 combined:
- a. the company identification for each coating and cleanup material employed;



- b. the VOC content of each coating and cleanup material, in lbs VOC/gallon;
 - c. the number of gallons of each coating and cleanup material employed;
 - d. the VOC emission rate for each coating and cleanup material $[d)(2)b. \times d)(2)c. \times 1 \text{ ton}/2000 \text{ lbs.}]$ in tons/month;
 - e. the total VOC emission rate for all coatings and cleanup materials [summation of d)(2)d. in tons per month]; and
 - f. the rolling, 12-month summation of the VOC emissions, in tons.
- (3) In addition to the above information, the permittee shall also record the following information for each month for emission units K004, P019-P028, P031-P036, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P064-P066 combined:
- a. The annual* number of gallons of coatings with a maximum VOC content of 7.0 lbs/gallon of coating;
 - b. The annual* number of gallons of coatings with a maximum VOC content of 11.0 lbs/gallon of coating; and
 - c. The annual* number of gallons of all coatings.

*Based upon a rolling, 12-month summation of the coating usage rates.

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify:
- a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:
 - i. the rolling, 12-month VOC emission limitation of 93.86 tons; and
 - ii. the maximum allowable gallon usage rates and VOC content limitations specified in paragraphs c)(1) and c)(2);
 - b. the probable cause of each deviation (excursion);
 - c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
 - d. the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July



31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the Northwest District Office).

- (2) The permittee shall submit an annual PER to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this permit. The PER shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation:

2.22 tons VOC/month, averaged over a twelve-month rolling period for cold end glass scoring operations

Applicable Compliance Method:

Compliance shall be based on the recordkeeping requirements as specified in d)(1).

- b. Emission Limitation:

Group limit of 93.86 tons VOC per rolling, 12-month period based on coating and cleanup usage and VOC content restrictions.

Applicable Compliance Method:

Compliance shall be based on the recordkeeping requirements as specified in d)(2) and d)(3).

g) Miscellaneous Requirements

- (1) None.

6. P065, Window Priming and Assembly Line 9 (Nissan Backlite)
Operations, Property and/or Equipment Description:

Window Priming and Assembly Line 9 (Nissan Backlite)

- a) This permit document constitutes a PTI issued in accordance with ORC 3704.03(F) and a PTO issued in accordance with ORC 3704.03(G).
- (1) For the purpose of a PTI document, the EU T&C identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
- a. b)(1)d. and d)(4).
- (2) For the purposes of a PTO document, the EU T&C identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
- a. b)(1)a., b)(2)a., c)(1), c)(2), c)(3), d)(1), d)(2),d)(3), e)(1), f)(1)a. and f)(1)b.
- b) Applicable Emissions Limitations and/or Control Requirements
- (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(D)	93.86 tons VOC per rolling, 12-month period for emission units K004, P019-P028, P031-P036, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P064-P066 combined. 9.90 tons per rolling, 12-month period for any individual HAP and 24.90 tons per rolling, 12-month period for any combination of HAPs for emission units K004, P019-P028, P031-P036, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P065-P066 combined. See b)(2)a.
b.	OAC rule 3745-31-05(A)(3)(a)(ii)	The BAT requirements under OAC rule 3745-31-05(A)(3) do not apply to VOC emissions from this emissions unit since the potential to emit (PTE) is less than 10 tons per year.
c.	OAC rule 3745-21-07(M)	See b)(2)b.
d.	ORC 3704.03(F) OAC rule 3745-114-01	See d)(4).



(2) Additional Terms and Conditions

- a. The federally enforceable limitations in b)(1)a. are based on VOC and HAP contents and gallon usage restrictions for the purpose of avoiding Title V applicability [See c)(1), c)(2) and c)(3)].

Federally enforceable limitations for VOC and HAPs were initially established in Permit-to-Install 03-13402 issued on 2/27/2001 and, as such, the facility has existing records for VOC and HAP emissions in lieu of establishing monthly emission restrictions for the first year of operation.

- b. This emissions unit is not subject to the requirements of this rule because it does not meet all the conditions outlined in OAC rule 3745-21-07(M)(3)(a).

c) Operational Restrictions

- (1) The permittee shall not employ any coating, as applied, more than 7.0 lbs VOC/gallon (process coatings) and 11.0 lbs VOC/gallon (machinist ink and/or special-order process coatings).
- (2) The maximum annual coating usage for emission units K004, P019-P028, P031-P036, P041, P043, P047, P054, P055, P057, P058, P060-P063, P064-P066 combined shall not exceed any of the following:
- a. 3,050 gallons of coating with a maximum VOC content of 11.0 lbs/gallon of coating;
- b. 25,067 gallons of coating with a maximum VOC content of 7.0 lbs/gallon of coating; and
- c. 25,067 gallons for all coatings combined.

Compliance with the annual coating usage limitation shall be based upon a rolling, 12-month summation of the monthly coating usage rates.

- (3) Combined annual HAP emissions from emission units K004, P019-P028, P031-P036, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P065-P066 shall not exceed 9.9 tons per year for any individual HAP and 24.9 tons per year for any combination HAPs, based upon rolling, 12-month summations of the monthly HAP emissions.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall collect and record the following information each month for emission units K004, P019-P028, P031-P036, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P064-P066 combined:
- a. the company identification for each coating and cleanup material employed;
- b. the VOC content of each coating and cleanup material, in lbs VOC/gallon;
- c. the number of gallons of each coating and cleanup material employed;
- d. the VOC emission rate for each coating and cleanup material [d)(1)b. x d)(1)c. x 1 ton/2000 lbs.] in tons/month;
- e. the total VOC emission rate for all coatings and cleanup materials [summation of d)(1)d. in tons per month]; and

- f. the rolling, 12-month summation of the VOC emissions, in tons.
 - (2) In addition to the above information, the permittee shall also record the following information for each month for emission units K004, P019-P028, P031-P036, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P064-P066 combined:
 - a. The annual* number of gallons of coatings with a maximum VOC content of 7.0 lbs/gallon of coating;
 - b. The annual* number of gallons of coatings with a maximum VOC content of 11.0 lbs/gallon of coating; and
 - c. The annual* number of gallons of all coatings.

*Based upon a rolling, 12-month summation of the coating usage rates.
 - (3) The permittee shall collect and record the following information regarding HAPs emissions each month for emission units K004, P019-P028, P031-P036, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P065-P066 combined:
 - a. the company identification of each coating and cleanup material employed;
 - b. the lbs per gallon of each HAP in each coating and cleanup material, as applied;
 - c. the number of gallons of each coating and cleanup material employed;
 - d. the emission rate for each HAP from each coating and cleanup material employed [d)(3)b. x d)(3)c. in lbs/month];
 - e. the total emission rate for each HAP from all coatings and cleanup materials employed [summation of d)(3)d.] in lbs/month;
 - f. the total HAP emissions rate for all combined HAPs from all coatings and cleanup materials employed [summation of d)(3)e.] in lbs/month; and
 - g. the rolling, 12-month summations for each individual HAP and all combined HAPs emissions, in tons.
 - (4) Modeling to demonstrate compliance with, the "Toxic Air Contaminant Statute", ORC 3704.03(F)(4)(b), was not necessary because the emissions unit's maximum annual emissions for each toxic air contaminant, as defined in OAC rule 3745-114-01, will be less than 1.0 ton per year. OAC Chapter 3745-31 requires a permittee to apply for and obtain a new or modified federally enforceable permit-to-install and operate prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any toxic air contaminant to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new federally enforceable Permit-to-Install and Operate.
- e) Reporting Requirements
- (1) The permittee shall submit quarterly deviation (excursion) reports that identify:
 - a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the PTE



of any regulated air pollutant and have been detected by the monitoring, recordkeeping and/or testing requirements in this permit:

- i. the rolling, 12-month VOC emission limitation of 93.86 tons;
 - ii. the maximum allowable gallon usage rates and VOC content limitations specified in paragraphs c)(1) and c)(2); and
 - iii. the maximum emissions limitations for each individual HAP and total combined HAPs specified in paragraph c)(3).
- b. the probable cause of each deviation (excursion);
 - c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
 - d. the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the Northwest District Office).

- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this permit. The PER shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.

f) **Testing Requirements**

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

- a. **Emission Limitation:**

93.86 tons VOC per rolling, 12-month period (for emission units K004, P019-P028, P031-P036, P041, P043, P047, P054, P055, P057, P058 and P060-P063, and P064-P066 combined)

Applicable Compliance Method:

Compliance shall be based on the recordkeeping requirements as specified in d)(1) and d)(2).

- b. **Emission Limitation:**

9.9 tons per rolling, 12-month period of any individual HAP and 24.9 tons per rolling, 12-month period of any combination of HAPs (for emission units K004, P019-P028, P031-P036, P041, P043, P047, P054, P055, P057, P058 and P060-P063, and P065-P066 combined)

Applicable Compliance Method:

Compliance shall be based on the recordkeeping requirements as specified in d)(3).

g) Miscellaneous Requirements

(1) None.

7. P066, Window Priming and Assembly New Line 12 (Slate Backlite)

Operations, Property and/or Equipment Description:

Window Priming and Assembly New Line 12 (Slate Backlite)

- a) This permit document constitutes a PTI issued in accordance with ORC 3704.03(F) and a PTO issued in accordance with ORC 3704.03(G).
- (1) For the purpose of a PTI document, the EU T&C identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
- a. b)(1)d. and d)(4).
- (2) For the purposes of a PTO document, the EU T&C identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
- a. b)(1)a., b)(2)a., c)(1), c)(2), c)(3), d)(1), d)(2), d)(3), e)(1), f)(1)a. and f)(1)b.
- b) Applicable Emissions Limitations and/or Control Requirements
- (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(D)	93.86 tons VOC per rolling, 12-month period for emission units K004, P019-P028, P031-P036, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P064-P066 combined. 9.90 tons per rolling, 12-month period for any individual HAP and 24.90 tons per rolling, 12-month period for any combination of HAPs for emission units K004, P019-P028, P031-P036, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P065-P066 combined. See b)(2)a.
b.	OAC rule 3745-31-05(A)(3)(a)(ii)	The BAT requirements under OAC rule 3745-31-05(A)(3) do not apply to VOC emissions from this emissions unit since the potential to emit (PTE) is less than 10 tons per year.
c.	OAC rule 3745-21-07(M)	See b)(2)b.



d.	ORC 3704.03(F) OAC rule 3745-114-01	See d)(4).
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(2) Additional Terms and Conditions

- a. The federally enforceable limitations in b)(1)a. are based on VOC and HAP contents and gallon usage restrictions for the purpose of avoiding Title V applicability [See c)(1), c)(2) and c)(3)].

Federally enforceable limitations for VOC and HAPs were initially established in Permit-to-Install 03-13402 issued on 2/27/2001 and, as such, the facility has existing records for VOC and HAP emissions in lieu of establishing monthly emission restrictions for the first year of operation.

- b. This emissions unit is not subject to the requirements of this rule because it does not meet all the conditions outlined in OAC rule 3745-21-07(M)(3)(a).

c) Operational Restrictions

- (1) The permittee shall not employ any coating, as applied, more than 7.0 lbs VOC/gallon (process coatings) and 11.0 lbs VOC/gallon (machinist ink and/or special-order process coatings).
- (2) The maximum annual coating usage for emission units K004, P019-P028, P031-P036, P041, P043, P047, P054, P055, P057, P058, P060-P063, P064-P066 combined shall not exceed any of the following:
- a. 3,050 gallons of coating with a maximum VOC content of 11.0 lbs/gallon of coating;
- b. 25,067 gallons of coating with a maximum VOC content of 7.0 lbs/gallon of coating; and
- c. 25,067 gallons for all coatings combined.

Compliance with the annual coating usage limitation shall be based upon a rolling, 12-month summation of the monthly coating usage rates.

- (3) Combined annual HAP emissions from emission units K004, P019-P028, P031-P036, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P065-P066 shall not exceed 9.9 tons per year for any individual HAP and 24.9 tons per year for any combination HAPs, based upon rolling, 12-month summations of the monthly HAP emissions.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall collect and record the following information each month for emission units K004, P019-P028, P031-P036, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P064-P066 combined:
- a. the company identification for each coating and cleanup material employed;
- b. the VOC content of each coating and cleanup material, in lbs VOC/gallon;
- c. the number of gallons of each coating and cleanup material employed;
- d. the VOC emission rate for each coating and cleanup material [d)(1)b. x d)(1)c. x 1 ton/2000 lbs.] in tons/month;



- e. the total VOC emission rate for all coatings and cleanup materials [summation of d)(1)d. in tons per month]; and
 - f. the rolling, 12-month summation of the VOC emissions, in tons.
- (2) In addition to the above information, the permittee shall also record the following information for each month for emission units K004, P019-P028, P031-P036, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P064-P066 combined:
- a. The annual* number of gallons of coatings with a maximum VOC content of 7.0 lbs/gallon of coating;
 - b. The annual* number of gallons of coatings with a maximum VOC content of 11.0 lbs/gallon of coating; and
 - c. The annual* number of gallons of all coatings.
- *Based upon a rolling, 12-month summation of the coating usage rates.
- (3) The permittee shall collect and record the following information regarding HAPs emissions each month for emission units K004, P019-P028, P031-P036, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P065-P066 combined:
- a. the company identification of each coating and cleanup material employed;
 - b. the lbs per gallon of each HAP in each coating and cleanup material, as applied;
 - c. the number of gallons of each coating and cleanup material employed;
 - d. the emission rate for each HAP from each coating and cleanup material employed [d)(3)b. x d)(3)c. in lbs/month];
 - e. the total emission rate for each HAP from all coatings and cleanup materials employed [summation of d)(3)d.] in lbs/month;
 - f. the total HAP emissions rate for all combined HAPs from all coatings and cleanup materials employed [summation of d)(3)e.] in lbs/month; and
 - g. the rolling, 12-month summations for each individual HAP and all combined HAPs emissions, in tons.
- (4) Modeling to demonstrate compliance with, the "Toxic Air Contaminant Statute", ORC 3704.03(F)(4)(b), was not necessary because the emissions unit's maximum annual emissions for each toxic air contaminant, as defined in OAC rule 3745-114-01, will be less than 1.0 ton per year. OAC Chapter 3745-31 requires a permittee to apply for and obtain a new or modified federally enforceable permit-to-install and operate prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any toxic air contaminant to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new federally enforceable Permit-to-Install and Operate.

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify:



- a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the PTE of any regulated air pollutant and have been detected by the monitoring, recordkeeping and/or testing requirements in this permit:
 - i. the rolling, 12-month VOC emission limitation of 93.86 tons;
 - ii. the maximum allowable gallon usage rates and VOC content limitations specified in paragraphs c)(1) and c)(2); and
 - iii. the maximum emissions limitations for each individual HAP and total combined HAPs specified in paragraph c)(3).
- b. the probable cause of each deviation (excursion);
- c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
- d. the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the Northwest District Office).

- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this permit. The PER shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.

f) **Testing Requirements**

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. **Emission Limitation:**

93.86 tons VOC per rolling, 12-month period (for emission units K004, P019-P028, P031-P036, P041, P043, P047, P054, P055, P057, P058 and P060-P063, and P064-P066 combined)

Applicable Compliance Method:

Compliance shall be based on the recordkeeping requirements as specified in d)(1) and d)(2).

b. **Emission Limitation:**

9.9 tons per rolling, 12-month period of any individual HAP and 24.9 tons per rolling, 12-month period of any combination of HAPs (for emission units K004, P019-P028, P031-



P036, P041, P043, P047, P054, P055, P057, P058 and P060-P063, and P065-P066 combined)

Applicable Compliance Method:

Compliance shall be based on the recordkeeping requirements as specified in d)(3).

g) Miscellaneous Requirements

(1) None.



8. Emissions Unit Group - 1&5 DBO Silk Screen Printing: P019, P020, P021, P022, P054

EU ID	Operations, Property and/or Equipment Description
P019	Silk screen printing (1 DBO-A) (formerly permitted as K002)
P020	Silk screen printing (1 DBO-B) (formerly permitted as K002)
P021	Silk screen printing (5 DBO-A) (formerly permitted as K003)
P022	Silk screen printing (5 DBO-B) (formerly permitted as K003)
P054	Silk Screen Printing (21 DBL)

- a) This permit document constitutes a PTI issued in accordance with ORC 3704.03(F) and a PTO issued in accordance with ORC 3704.03(G).
- (1) For the purpose of a PTI document, the EU T&C identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
- a. b)(1)d. and d)(5).
- (2) For the purposes of a PTO document, the EU T&C identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
- a. b)(1)c., b)(2)b., c)(1), c)(2), c)(3), d)(2), d)(3), d)(4), e)(2), f)(1)c. and f)(1)d.
- b) Applicable Emissions Limitations and/or Control Requirements
- (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	2,383 lbs volatile organic compounds (VOC)/month from coating and cleanup materials for each emissions unit individually. 14.30 tons VOC/yr from all coatings and cleanup materials for each emissions unit individually
b.	OAC rule 3745-21-07(M)	See b)(2)a.



c.	OAC rule 3745-31-05(D)	93.86 tons VOC per rolling, 12-month period for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P064-P066 combined. 9.90 tons per rolling, 12-month period for any individual HAP and 24.90 tons per rolling, 12-month period for any combination of HAPs for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P065-P066 combined. See b)(2)b.
d.	ORC 3704.03(F) OAC rule 3745-114-01	See d)(5)

(2) Additional Terms and Conditions

- a. These emissions units are not subject to the requirements of the rule because they do not meet all of the conditions outlined in OAC rule 3745-21-07(M)(3)(a).
- b. The federally enforceable limitations in b)(1)c. are based on VOC and HAP contents and gallon usage restrictions for the purpose of avoiding Title V applicability [See c)(1), c)(2) and c)(3)].

Federally enforceable limitations for VOC and HAPs were initially established in Permit-to-Install 03-13402 issued on 2/27/2001 and, as such, the facility has existing records for VOC and HAP emissions.

c) Operational Restrictions

- (1) The permittee shall not employ any coating, as applied, in excess of 7.0 lbs VOC/gallon (process coatings) and 11.0 lbs VOC/gallon (machinist ink and/or special-order process coatings).
- (2) The maximum annual coating usage for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P064-P066 combined shall not exceed any of the following:
 - a. 3,050 gallons of coating with a maximum VOC content of 11.0 lbs/gallon of coating;
 - b. 25,067 gallons of coating with a maximum VOC content of 7.0 lbs/gallon of coating; and
 - c. 25,067 gallons for all coatings combined.

Compliance with the annual coating usage limitation shall be based upon a rolling, 12-month summation of the monthly coating usage rates.



- (3) Combined annual HAP emissions from emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063 and P065-P066 shall not exceed 9.90 tons per year for any individual HAP and 24.90 tons per year for any combination HAPs, based upon rolling, 12-month summations of the monthly HAP emissions.
- d) Monitoring and/or Recordkeeping Requirements
 - (1) The permittee shall collect and record the following information each month for P019, P020, P021, P022 and P054 individually:
 - a. the name and identification number of each coating employed;
 - b. the VOC content of each coating, as applied, in pounds per gallon;
 - c. the number of gallons of each coating employed;
 - d. the total number of gallons of all coatings employed;
 - e. the annual coating usage for all coatings employed, based upon a rolling 12-month summation of the monthly usage rates;
 - f. the VOC emission rate for each coating, in pounds per month;
 - g. the total VOC emission rate for all coatings, in pounds or tons per month; and
 - h. the total VOC emissions from all coating and cleanup materials employed in each emissions unit [summation of d)(1)g. for each calendar month to date from January to December].
 - (2) The permittee shall collect and record the following information each month for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P064-P066 combined:
 - a. the company identification for each coating and cleanup material employed;
 - b. the VOC content of each coating and cleanup material, in lbs VOC/gallon;
 - c. the number of gallons of each coating and cleanup material employed;
 - d. the VOC emission rate for each coating and cleanup material [d)(2)b. x d)(2)c. x 1 ton/2000 lbs.] in tons/month;
 - e. the total VOC emission rate for all coatings and cleanup materials [summation of d)(2)d. in tons per month]; and
 - f. the rolling, 12-month summation of the VOC emissions, in tons.
 - (3) In addition to the above information, the permittee shall also record the following information for each month for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P064-P066 combined:



- a. The annual* number of gallons of coatings with a maximum VOC content of 7.0 lbs/gallon of coating;
- b. The annual* number of gallons of coatings with a maximum VOC content of 11.0 lbs/gallon of coating; and
- c. The annual* number of gallons of all coatings.

*Based upon a rolling, 12-month summation of the coating usage rates.

- (4) The permittee shall collect and record the following information regarding HAPs emissions each month for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P065-P066 combined:
 - a. the company identification of each coating and cleanup material employed;
 - b. the lbs per gallon of each HAP in each coating and cleanup material, as applied;
 - c. the number of gallons of each coating and cleanup material employed;
 - d. the emission rate for each HAP from each coating and cleanup material employed [d)(4)b. x d)(4)c. in lbs/month];
 - e. the total emission rate for each HAP from all coatings and cleanup materials employed [summation of d)(4)d.] in lbs/month;
 - f. the total HAP emissions rate for all combined HAPs from all coatings and cleanup materials employed [summation of d)(4)e.] in lbs/month; and
 - g. the rolling, 12-month summations for each individual HAP and all combined HAPs emissions, in tons.
- (5) Modeling to demonstrate compliance with, the "Toxic Air Contaminant Statute", ORC 3704.03(F)(4)(b), was not necessary because the emissions unit's maximum annual emissions for each toxic air contaminant, as defined in OAC rule 3745-114-01, will be less than 1.0 ton per year. OAC Chapter 3745-31 requires a permittee to apply for and obtain a new or modified FEPTIO prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any toxic air contaminant to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new FEPTIO.

e) Reporting Requirements

- (1) The permittee shall submit an annual PER to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this permit. The PER shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.
- (2) The permittee shall submit quarterly deviation (excursion) reports that identify:



- a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:
 - i. the 93.86 tons VOC per rolling, 12-month period emission limitation;
 - ii. the maximum allowable gallon usage rates and VOC content limitations specified in paragraphs c)(1) and c)(2); and
 - iii. the maximum emissions limitations for each HAP and total combined HAPs specified in paragraph c)(3).
- b. the probable cause of each deviation (excursion);
- c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
- d. the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the Northwest District Office).

f) **Testing Requirements**

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
2,383 lbs of VOC/month for each emissions unit individually.
Applicable Compliance Method:
Compliance shall be based on the recordkeeping requirements as specified in d)(1).
 - b. Emission Limitation:
14.3 tons VOC/yr from each emissions unit individually.
Applicable Compliance Method:
Compliance shall be based on the recordkeeping requirements as specified in d)(1).
 - c. Emission Limitation:
Group limit of 93.86 tons VOC per rolling, 12-month period based on coating and cleanup usage and VOC content restrictions.



Applicable Compliance Method:

Compliance shall be based on the recordkeeping requirements as specified in d)(2) and d)(3).

d. Emission Limitation:

Group limit of 9.90 tons per rolling, 12-month period of any individual HAP and 24.90 tons per rolling, 12-month period of any combination of HAPs.

Applicable Compliance Method:

Compliance shall be based on the recordkeeping requirements as specified in d)(4).

g) Miscellaneous Requirements

(1) None.

9. Emissions Unit Group - Silk Screen Printing VAW, HPB: P023, P024, P025, P026, P027, P028

EU ID	Operations, Property and/or Equipment Description
P023	Silk screen printing (2 VAW) (formerly permitted as R004) w/ vertical air wall furnace (5 mmBtu/hr)
P024	Silk screen printing (21 HPB) (formerly permitted as R005)
P025	Silk screen printing (20 HPB) (formerly permitted as R006)
P026	Silk screen printing (6 VAW) (formerly permitted as R007) w/ vertical air wall furnace (5 mmBtu/hr)
P027	Silk screen printing (19 HPB-B) (formerly permitted as R008)
P028	Silk screen printing (19 HPB-A) (formerly permitted as R009)

a) This permit document constitutes a PTI issued in accordance with ORC 3704.03(F) and a PTO issued in accordance with ORC 3704.03(G).

(1) For the purpose of a PTI document, the EU T&C identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. b)(1)d. and d)(5).

(2) For the purposes of a PTO document, the EU T&C identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. b)(1)c., b)(2)b., c)(1), c)(2), c)(3), d)(2), d)(3), d)(4), e)(2), f)(1)c. and f)(1)d.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	1,466 lbs volatile organic compounds (VOC)/month from coating and cleanup materials for each emissions unit individually. 8.80 tons VOC/yr from all coatings and cleanup materials for each emissions unit individually.



b.	OAC rule 3745-21-07(M)	See b)(2)a.
c.	OAC rule 3745-31-05(D)	93.86 tons VOC per rolling, 12-month period for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P064-P066 combined. 9.90 tons per rolling, 12-month period for any individual HAP and 24.90 tons per rolling, 12-month period for any combination of HAPs for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P065-P066 combined. See b)(2)b.
d.	ORC 3704.03(F) OAC rule 3745-114-01	See d)(5)

(2) Additional Terms and Conditions

- a. These emissions units are not subject to the requirements of the rule because they do not meet all of the conditions outlined in OAC rule 3745-21-07(M)(3)(a).
- b. The federally enforceable limitations in b)(1)c. are based on VOC and HAP contents and gallon usage restrictions for the purpose of avoiding Title V applicability [See c)(1), c)(2) and c)(3)].

Federally enforceable limitations for VOC and HAPs were initially established in Permit-to-Install 03-13402 issued on 2/27/2001 and, as such, the facility has existing records for VOC and HAP emissions.

c) Operational Restrictions

- (1) The permittee shall not employ any coating, as applied, in excess of 7.0 lbs VOC/gallon (process coatings) and 11.0 lbs VOC/gallon (machinist ink and/or special-order process coatings).
- (2) The maximum annual coating usage for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P064-P066 combined shall not exceed any of the following:
 - a. 3,050 gallons of coating with a maximum VOC content of 11.0 lbs/gallon of coating;
 - b. 25,067 gallons of coating with a maximum VOC content of 7.0 lbs/gallon of coating; and
 - c. 25,067 gallons for all coatings combined.

Compliance with the annual coating usage limitation shall be based upon a rolling, 12-month summation of the monthly coating usage rates.



- (3) Combined annual HAP emissions from emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P065-P066 shall not exceed 9.90 tons per year for any individual HAP and 24.90 tons per year for any combination HAPs, based upon rolling, 12-month summations of the monthly HAP emissions.
- d) **Monitoring and/or Recordkeeping Requirements**
 - (1) The permittee shall collect and record the following information each month for P023, P024, P025, P026, P027 and P028 individually:
 - a. the name and identification number of each coating employed;
 - b. the VOC content of each coating, as applied, in pounds per gallon;
 - c. the number of gallons of each coating employed;
 - d. the total number of gallons of all coatings employed;
 - e. the annual coating usage for all coatings employed, based upon a rolling, 12-month summation of the monthly usage rates;
 - f. the VOC emission rate for each coating, in pounds per month;
 - g. the total VOC emission rate for all coatings, in pounds or tons per month; and
 - h. the total VOC emissions from all coating and cleanup materials employed in each emissions unit [summation of d)(1)g. for each calendar month to date from January to December].
 - (2) The permittee shall collect and record the following information each month for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P064-P066 combined:
 - a. the company identification for each coating and cleanup material employed;
 - b. the VOC content of each coating and cleanup material, in lbs VOC/gallon;
 - c. the number of gallons of each coating and cleanup material employed;
 - d. the VOC emission rate for each coating and cleanup material [d)(2)b. x d)(2)c. x 1 ton/2000 lbs.] in tons/month;
 - e. the total VOC emission rate for all coatings and cleanup materials [summation of d)(2)d. in tons per month]; and
 - f. the rolling, 12-month summation of the VOC emissions, in tons.



- (3) In addition to the above information, the permittee shall also record the following information for each month for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P064-P066 combined:
- a. The annual* number of gallons of coatings with a maximum VOC content of 7.0 lbs/gallon of coating;
 - b. The annual* number of gallons of coatings with a maximum VOC content of 11.0 lbs/gallon of coating; and
 - c. The annual* number of gallons of all coatings.
- *Based upon a rolling, 12-month summation of the coating usage rates.
- (4) The permittee shall collect and record the following information regarding HAPs emissions each month for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P065-P066 combined:
- a. the company identification of each coating and cleanup material employed;
 - b. the lbs per gallon of each HAP in each coating and cleanup material, as applied;
 - c. the number of gallons of each coating and cleanup material employed;
 - d. the emission rate for each HAP from each coating and cleanup material employed [d)(4)b. x d)(4)c. in lbs/month];
 - e. the total emission rate for each HAP from all coatings and cleanup materials employed [summation of d)(4)d.] in lbs/month;
 - f. the total HAP emissions rate for all combined HAPs from all coatings and cleanup materials employed [summation of d)(4)e.] in lbs/month; and
 - g. the rolling, 12-month summations for each individual HAP and all combined HAPs emissions, in tons.
- (5) Modeling to demonstrate compliance with, the "Toxic Air Contaminant Statute", ORC 3704.03(F)(4)(b), was not necessary because the emissions unit's maximum annual emissions for each toxic air contaminant, as defined in OAC rule 3745-114-01, will be less than 1.0 ton per year. OAC Chapter 3745-31 requires a permittee to apply for and obtain a new or modified FEPTIO prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any toxic air contaminant to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new FEPTIO.



e) Reporting Requirements

- (1) The permittee shall submit an annual PER to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this permit. The PER shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.
- (2) The permittee shall submit quarterly deviation (excursion) reports that identify:
 - a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:
 - i. the 93.86 tons VOC per rolling, 12-month period emission limitation;
 - ii. the maximum allowable gallon usage rates and VOC content limitations specified in paragraphs c)(1) and c)(2); and
 - iii. the maximum emissions limitations for each HAP and total combined HAPs specified in paragraph c)(3).
 - b. the probable cause of each deviation (excursion);
 - c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
 - d. the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the Northwest District Office).

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:

1,466 lbs of VOC/month for each emissions unit individually.

Applicable Compliance Method:

Compliance shall be based on the recordkeeping requirements as specified in d)(1).
 - b. Emission Limitation:

8.80 tons VOC/yr from each emissions unit individually.



Applicable Compliance Method:

Compliance shall be based on the recordkeeping requirements as specified in d)(1).

c. Emission Limitation:

Group limit of 93.86 tons VOC per rolling, 12-month period based on coating and cleanup usage and VOC content restrictions.

Applicable Compliance Method:

Compliance shall be based on the recordkeeping requirements as specified in d)(2) and d)(3).

d. Emission Limitation:

Group limit of 9.90 tons per rolling, 12-month period of any individual HAP and 24.90 tons per rolling, 12-month period of any combination of HAPs.

Applicable Compliance Method:

Compliance shall be based on the recordkeeping requirements as specified in d)(4).

g) Miscellaneous Requirements

(1) None.

10. Emissions Unit Group - Window and Door Assembly Lines: P055, P057, P058, P060, P061

EU ID	Operations, Property and/or Equipment Description
P055	Window Assembly Cell/Line 26A&B
P057	Window Assembly Cell/Line 24
P058	Window Assembly Cell/Line 23
P060	Window Assembly Cell/Line 27A&B
P061	Door Window Assembly Cell/Line 4

- a) This permit document constitutes a PTI issued in accordance with ORC 3704.03(F) and a PTO issued in accordance with ORC 3704.03(G).
- (1) For the purpose of a PTI document, the EU T&C identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
- a. b)(1)d. and d)(5).
- (2) For the purposes of a PTO document, the EU T&C identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
- a. b)(1)c., b)(2)c., c)(1), c)(2), c)(3), d)(2), d)(3), e)(1), f)(1)b. and f)(1)c.
- b) Applicable Emissions Limitations and/or Control Requirements
- (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	7.30 tons VOC per year from the coating and adhesive operations. See b)(2)a.
b.	OAC rule 3745-21-07(M)	See b)(2)b.
c.	OAC rule 3745-31-05(D)	93.86 tons VOC per rolling, 12-month period for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055,



		P057, P058, P060-P063, and P064-P066 combined. 9.90 tons per rolling, 12-month period for any individual HAP and 24.90 tons per rolling, 12-month period for any combination of HAPs for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P065-P066 combined
d.	ORC 3704.03(F) OAC rule 3745-114-01	See d)(5)

(2) Additional Terms and Conditions

- a. Emissions from cleanup operations for an individual window assembly line are negligible and therefore, have not been addressed by an individual emission limitation for each window assembly line. Emissions from cleanup operations are included in the combined VOC limitation established under OAC rule 3745-31-05(D).
- b. This emissions unit is not subject to the requirements of the rule because it does not meet all of the conditions outlined in OAC rule 3745-21-07(M)(3)(a).
- c. The federally enforceable limitations in b)(1)c. are based on VOC and HAP contents and gallon usage restrictions for the purpose of avoiding Title V applicability [See c)(1), c)(2) and c)(3)].

Federally enforceable limitations for VOC and HAPs were initially established in Permit-to-Install 03-13402 issued on 2/27/2001 and, as such, the facility has existing records for VOC and HAP emissions.

c) Operational Restrictions

- (1) The permittee shall not employ any coating, as applied, in excess of 7.0 lbs VOC/gallon (process coatings) and 11.0 lbs VOC/gallon (machinist ink and/or special-order process coatings).
- (2) The maximum annual coating usage for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P064-P066 combined shall not exceed any of the following:
 - a. 3,050 gallons of coating with a maximum VOC content of 11.0 lbs/gallon of coating;
 - b. 25,067 gallons of coating with a maximum VOC content of 7.0 lbs/gallon of coating; and
 - c. 25,067 gallons for all coatings combined.

Compliance with the annual coating usage limitation shall be based upon a rolling, 12-month summation of the monthly coating usage rates.



- (3) Combined annual HAP emissions from emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P065-P066 shall not exceed 9.90 tons per year for any individual HAP and 24.90 tons per year for any combination HAPs, based upon rolling, 12-month summations of the monthly HAP emissions.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall collect and record the following information each month for emissions units P055, P057, P058, P060 and P061, individually:
- the name and identification for each coating and adhesive material employed;
 - the VOC content of each coating and adhesive material, in lbs VOC/gallon;
 - the number of gallons of each coating and adhesive material employed;
 - the VOC emission rate for each coating and adhesive material, in tons/month $[d)(1)b. \times d)(1)c. \times 1 \text{ ton}/2000 \text{ lbs.}]$;
 - the total VOC emission rate for all coatings and adhesive materials [summation of $d)(1)d.$ in tons per month]; and
 - The annual, year to date, summation of the VOC emissions, in tons [summation of $d)(1)e.$ for each calendar month to date from January to December].
- (2) The permittee shall collect and record the following information each month for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P064-P066 combined:
- the company identification for each coating and cleanup material employed;
 - the VOC content of each coating and cleanup material, in lbs VOC/gallon;
 - the number of gallons of each coating and cleanup material employed;
 - the VOC emission rate for each coating and cleanup material $[d)(2)b. \times d)(2)c. \times 1 \text{ ton}/2000 \text{ lbs.}]$ in tons/month;
 - the total VOC emission rate for all coatings and cleanup materials [summation of $d)(2)d.$ in tons per month]; and
 - the rolling, 12-month summation of the VOC emissions, in tons.
- (3) In addition to the above information, the permittee shall also record the following information for each month for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P064-P066 combined:
- The annual* number of gallons of coatings with a maximum VOC content of 7.0 lbs/gallon of coating;
 - The annual* number of gallons of coatings with a maximum VOC content of 11.0 lbs/gallon of coating; and
 - The annual* number of gallons of all coatings.

*Based upon a rolling, 12-month summation of the coating usage rates.



- (4) The permittee shall collect and record the following information regarding HAPs emissions each month for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P065-P066 combined:
- a. the company identification of each coating and cleanup material employed;
 - b. the lbs per gallon of each HAP in each coating and cleanup material, as applied;
 - c. the number of gallons of each coating and cleanup material employed;
 - d. the emission rate for each HAP from each coating and cleanup material employed [d)(4)b. x d)(4)c. in lbs/month];
 - e. the total emission rate for each HAP from all coatings and cleanup materials employed [summation of d)(4)d.] in lbs/month;
 - f. the total HAP emissions rate for all combined HAPs from all coatings and cleanup materials employed [summation of d)(4)e.] in lbs/month; and
 - g. the rolling, 12-month summations for each individual HAP and all combined HAPs emissions, in tons.
- (5) Modeling to demonstrate compliance with, the "Toxic Air Contaminant Statute", ORC 3704.03(F)(4)(b), was not necessary because the emissions unit's maximum annual emissions for each toxic air contaminant, as defined in OAC rule 3745-114-01, will be less than 1.0 ton per year. OAC Chapter 3745-31 requires a permittee to apply for and obtain a new or modified FEPTIO prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any toxic air contaminant to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new FEPTIO.

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify:
- a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the PTE of any regulated air pollutant and have been detected by the monitoring, recordkeeping and/or testing requirements in this permit:
 - i. the rolling, 12-month VOC emission limitation of 93.86 tons;
 - ii. the maximum allowable gallon usage rates and VOC content limitations specified in paragraphs c)(1) and c)(2); and
 - iii. the maximum emissions limitations for each individual HAP and total combined HAPs specified in paragraph c)(3).
 - b. the probable cause of each deviation (excursion);
 - c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
 - d. the magnitude and duration of each deviation (excursion).



If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the Northwest District Office).

- (2) The permittee shall submit an annual PER to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this permit. The PER shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:

7.30 tons VOC/yr from coating and adhesive operations.

Applicable Compliance Method:

Compliance shall be based on the recordkeeping requirements as specified in d)(1).

b. Emission Limitation:

Group limit of 93.86 tons VOC per rolling, 12-month period based on coating and cleanup usage and VOC content restrictions.

Applicable Compliance Method:

Compliance shall be based on the recordkeeping requirements as specified in d)(2) and d)(3).

c. Emission Limitation:

Group limit of 9.90 tons per rolling, 12-month period of any individual HAP and 24.90 tons per rolling, 12-month period of any combination of HAPs.

Applicable Compliance Method:

Compliance shall be based on the recordkeeping requirements as specified in d)(4).

g) Miscellaneous Requirements

- (1) None.



11. Emissions Unit Group - Window Assembly Line #1: P031, P032, P033, P034, P035, P036, P040

EU ID	Operations, Property and/or Equipment Description
P031	Window assembly line 3.
P032	Window assembly line 4.
P033	Window assembly line 5.
P034	Window assembly line 6.
P035	Window assembly line 7.
P036	Window assembly line 8.
P040	Window assembly line 12.

- a) This permit document constitutes a PTI issued in accordance with ORC 3704.03(F) and a PTO issued in accordance with ORC 3704.03(G).
- (1) For the purpose of a PTI document, the EU T&C identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
- a. b)(1)d., d)(5) and e)(3).
- (2) For the purposes of a PTO document, the EU T&C identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
- a. b)(1)c., b)(2)b., c)(1), c)(2), c)(3), d)(2), d)(3), d)(4), e)(2), f)(1)b. and f)(1)c.
- b) Applicable Emissions Limitations and/or Control Requirements
- (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	1,216 lbs of VOC/month from coating and cleanup materials for each emissions unit individually.



		7.30 tons VOC/yr from coating and cleanup materials for each emissions unit individually.
b.	OAC rule 3745-21-07(M)	See b)(2)a.
c.	OAC rule 3745-31-05(D)	93.86 tons VOC per rolling, 12-month period for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P064-P066 combined. 9.90 tons per rolling, 12-month period for any individual HAP and 24.90 tons per rolling, 12-month period for any combination of HAPs for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P065-P066 combined. See b)(2)b.
d.	ORC 3704.03(F) OAC rule 3745-114-01	See d)(5) and e)(3).

(2) Additional Terms and Conditions

- a. These emissions units are not subject to the requirements of the rule because they do not meet all of the conditions outlined in OAC rule 3745-21-07(M)(3)(a).
- b. The federally enforceable limitations in b)(1)c. are based on VOC and HAP contents and gallon usage restrictions for the purpose of avoiding Title V applicability [See c)(1), c)(2) and c)(3)].

Federally enforceable limitations for VOC and HAPs were initially established in Permit-to-Install 03-13402 issued on 2/27/2001 and, as such, the facility has existing records for VOC and HAP emissions.

c) Operational Restrictions

- (1) The permittee shall not employ any coating, as applied, in excess of 7.0 lbs VOC/gallon (process coatings) and 11.0 lbs VOC/gallon (machinist ink and/or special-order process coatings).
- (2) The maximum annual coating usage for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P064-P066 combined shall not exceed any of the following:
 - a. 3,050 gallons of coating with a maximum VOC content of 11.0 lbs/gallon of coating;
 - b. 25,067 gallons of coating with a maximum VOC content of 7.0 lbs/gallon of coating; and



- c. 25,067 gallons for all coatings combined.

Compliance with the annual coating usage limitation shall be based upon a rolling, 12-month summation of the monthly coating usage rates.

- (3) Combined annual HAP emissions from emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063 and P065-P066 shall not exceed 9.90 tons per year for any individual HAP and 24.90 tons per year for any combination HAPs, based upon rolling, 12-month summations of the monthly HAP emissions.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall collect and record the following information each month for P031, P032, P033, P034, P035, P036 and P040 individually:

- a. the name and identification number of each coating employed;
- b. the VOC content of each coating, as applied, in pounds per gallon;
- c. the number of gallons of each coating employed;
- d. the total number of gallons of all coatings employed;
- e. the annual coating usage for all coatings employed, based upon a rolling 12-month summation of the monthly usage rates;
- f. the VOC emission rate for each coating, in pounds per month;
- g. the total VOC emission rate for all coatings, in pounds or tons per month; and
- h. the total VOC emissions from all coating and cleanup materials employed in each emissions unit [summation of d)(1)g. for each calendar month to date from January to December].

- (2) The permittee shall collect and record the following information each month for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P064-P066 combined:

- a. the company identification for each coating and cleanup material employed;
- b. the VOC content of each coating and cleanup material, in lbs VOC/gallon;
- c. the number of gallons of each coating and cleanup material employed;
- d. the VOC emission rate for each coating and cleanup material [d)(2)b. x d)(2)c. x 1 ton/2000 lbs.] in tons/month;
- e. the total VOC emission rate for all coatings and cleanup materials [summation of d)(2)d. in tons per month]; and



- f. the rolling, 12-month summation of the VOC emissions, in tons.
- (3) In addition to the above information, the permittee shall also record the following information for each month for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P064-P066 combined:
- a. The annual* number of gallons of coatings with a maximum VOC content of 7.0 lbs/gallon of coating;
 - b. The annual* number of gallons of coatings with a maximum VOC content of 11.0 lbs/gallon of coating; and
 - c. The annual* number of gallons of all coatings.
- *Based upon a rolling, 12-month summation of the coating usage rates.
- (4) The permittee shall collect and record the following information regarding HAPs emissions each month for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, P065-P066 combined:
- a. the company identification of each coating and cleanup material employed;
 - b. the lbs per gallon of each HAP in each coating and cleanup material, as applied;
 - c. the number of gallons of each coating and cleanup material employed;
 - d. the emission rate for each HAP from each coating and cleanup material employed [d)(4)b. x d)(4)c. in lbs/month];
 - e. the total emission rate for each HAP from all coatings and cleanup materials employed [summation of d)(4)d.] in lbs/month;
 - f. the total HAP emissions rate for all combined HAPs from all coatings and cleanup materials employed [summation of d)(4)e.] in lbs/month; and
 - g. the rolling, 12-month summations for each individual HAP and all combined HAPs emissions, in tons.
- (5) The FEPTIO application (A0004643) was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the FEPTIO 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 FEPTIO application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the MAGLC. The following summarizes the results of the modeling for the "worst-case" pollutant(s):



Pollutant: toluene*

TLV (mg/m³): 188.4**

Maximum Hourly Emission Rate (lbs/hr): 96.0***

Predicted 1-Hour Maximum Ground-Level Concentration (µg/m³): 2,224.8

MAGLC (µg/m³): 4,486

*All emissions assumed to be toluene since toluene is the worst-case pollutant

**TLV value at the time of the initial PTI application in 2005

***Maximum hourly emission rate valued at the time of initial application as 8 lbs toluene/hr from each of the 12 lines. The true maximum toluene for P031-P036 and P040 (combined) is 0.49 lb/hr.

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

- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower 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 solely due to the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing FEPTIO will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) is (are) defined as a modification under other provisions of the modification definition, then the permittee shall obtain a final FEPTIO prior to the change.

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

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



- e. documentation of its evaluation and determination that the changed emissions unit still satisfies the “Air Toxic Policy”; and
- f. 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.

e) Reporting Requirements

- (1) The permittee shall submit an annual PER to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this permit. The PER shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.
- (2) The permittee shall submit quarterly deviation (excursion) reports that identify:
 - a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the PTE of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:
 - i. the 93.86 tons VOC per rolling, 12-month period emission limitation;
 - ii. the maximum allowable gallon usage rates and VOC content limitations specified in paragraphs c)(1) and c)(2); and
 - iii. the maximum emissions limitations for each HAP and total combined HAPs specified in paragraph c)(3).
 - b. the probable cause of each deviation (excursion);
 - c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
 - d. the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the Northwest District Office).

- (3) The permittee shall include any changes made to a parameter or value used in the dispersion model, that was used to demonstrate compliance with the Toxic Air Contaminant Statute, ORC 3704.03(F), through the predicted 1-hour maximum ground-level concentration, in the annual PER. If no changes to the emissions, emissions unit(s), or the exhaust stack have been made, then the report shall include a statement to this effect.

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:



a. Emission Limitation:

1,216 lbs of VOC/month and 7.30 tons VOC/yr from coating and cleanup materials for each emissions unit individually.

Applicable Compliance Method:

Compliance shall be based on the recordkeeping requirements as specified in d)(1).

b. Emission Limitation:

93.86 tons VOC per rolling, 12-month period for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P064-P066 combined.

Applicable Compliance Method:

Compliance shall be based on the recordkeeping requirements as specified in d)(2) and d)(3).

c. Emission Limitation:

9.90 tons per rolling, 12-month period for any individual HAP and 24.90 tons per rolling, 12-month period for any combination of HAPs for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P065-P066 combined.

Applicable Compliance Method:

Compliance shall be based on the recordkeeping requirements as specified in d)(4).

g) Miscellaneous Requirements

(1) None.



12. Emissions Unit Group - Window Assembly Line #2: P041, P043

EU ID	Operations, Property and/or Equipment Description
P041	Window Assembly Line number 13. Assemble, primer application, and soldering.
P043	Window assembly line number 15. Assembly, primer application

- a) This permit document constitutes a PTI issued in accordance with ORC 3704.03(F) and a PTO issued in accordance with ORC 3704.03(G).
- (1) For the purpose of a PTI document, the EU T&C identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
- a. b)(1)d. and d)(5).
- (2) For the purposes of a PTO document, the EU T&C identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
- a. b)(1)c., b)(2)b., c)(1), c)(2), c)(3), d)(2), d)(3), d)(4), e)(2), f)(1)b. and f)(1)c.
- b) Applicable Emissions Limitations and/or Control Requirements
- (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	7.30 tons of VOC/yr from coating and cleanup material for each emissions unit individually.
b.	OAC rule 3745-21-07(M)	See b)(2)a.
c.	OAC rule 3745-31-05(D)	93.86 tons VOC per rolling, 12-month period for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P064-P066 combined. 9.90 tons per rolling, 12-month period for any individual HAP and 24.90 tons per rolling, 12-month period for any combination of HAPs for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055,



		P057, P058, P060-P063, and P065-P066 combined. See b)(2)b.
d.	ORC 3704.03(F) OAC rule 3745-114-01	See d)(5).

(2) Additional Terms and Conditions

- a. These emissions units are not subject to the requirements of the rule because they do not meet all of the conditions outlined in OAC rule 3745-21-07(M)(3)(a).
- b. The federally enforceable limitations in b)(1)c. are based on VOC and HAP contents and gallon usage restrictions for the purpose of avoiding Title V applicability [See c)(1), c)(2) and c)(3)].

Federally enforceable limitations for VOC and HAPs were initially established in Permit-to-Install 03-13402 issued on 2/27/2001 and, as such, the facility has existing records for VOC and HAP emissions.

c) Operational Restrictions

- (1) The permittee shall not employ any coating, as applied, in excess of 7.0 lbs VOC/gallon (process coatings) and 11.0 lbs VOC/gallon (machinist ink and/or special-order process coatings).
- (2) The maximum annual coating usage for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P064-P066 combined shall not exceed any of the following:
 - a. 3,050 gallons of coating with a maximum VOC content of 11.0 lbs/gallon of coating;
 - b. 25,067 gallons of coating with a maximum VOC content of 7.0 lbs/gallon of coating; and
 - c. 25,067 gallons for all coatings combined.

Compliance with the annual coating usage limitation shall be based upon a rolling, 12-month summation of the monthly coating usage rates.

- (3) Combined annual HAP emissions from emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P065-P066 shall not exceed 9.90 tons per year for any individual HAP and 24.90 tons per year for any combination HAPs, based upon rolling, 12-month summations of the monthly HAP emissions.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall collect and record the following information each month for P041 and P043 individually:
 - a. the name and identification number of each coating employed;
 - b. the VOC content of each coating, as applied, in pounds per gallon;



- c. the number of gallons of each coating employed;
 - d. the total number of gallons of all coatings employed;
 - e. the annual coating usage for all coatings employed, based upon a rolling 12-month summation of the monthly usage rates;
 - f. the VOC emission rate for each coating, in pounds per month;
 - g. the total VOC emission rate for all coatings, in pounds or tons per month; and
 - h. the total VOC emissions from all coating and cleanup materials employed in each emissions unit [summation of d)(1)g. for each calendar month to date from January to December].
- (2) The permittee shall collect and record the following information each month for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P064-P066 combined:
- a. the company identification for each coating and cleanup material employed;
 - b. the VOC content of each coating and cleanup material, in lbs VOC/gallon;
 - c. the number of gallons of each coating and cleanup material employed;
 - d. the VOC emission rate for each coating and cleanup material [d)(2)b. x d)(2)c. x 1 ton/2000 lbs.] in tons/month;
 - e. the total VOC emission rate for all coatings and cleanup materials [summation of d)(2)d. in tons per month]; and
 - f. the rolling, 12-month summation of the VOC emissions, in tons.
- (3) In addition to the above information, the permittee shall also record the following information for each month for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P064-P066 combined:
- a. The annual* number of gallons of coatings with a maximum VOC content of 7.0 lbs/gallon of coating;
 - b. The annual* number of gallons of coatings with a maximum VOC content of 11.0 lbs/gallon of coating; and
 - c. The annual* number of gallons of all coatings.

*Based upon a rolling, 12-month summation of the coating usage rates.



- (4) The permittee shall collect and record the following information regarding HAPs emissions each month for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P065-P066 combined:
- a. the company identification of each coating and cleanup material employed;
 - b. the lbs per gallon of each HAP in each coating and cleanup material, as applied;
 - c. the number of gallons of each coating and cleanup material employed;
 - d. the emission rate for each HAP from each coating and cleanup material employed [d)(4)b. x d)(4)c. in lbs/month];
 - e. the total emission rate for each HAP from all coatings and cleanup materials employed [summation of d)(4)d.] in lbs/month;
 - f. the total HAP emissions rate for all combined HAPs from all coatings and cleanup materials employed [summation of d)(4)e.] in lbs/month; and
 - g. the rolling, 12-month summations for each individual HAP and all combined HAPs emissions, in tons.
- (5) Modeling to demonstrate compliance with, the "Toxic Air Contaminant Statute", ORC 3704.03(F)(4)(b), was not necessary because the emissions unit's maximum annual emissions for each toxic air contaminant, as defined in OAC rule 3745-114-01, will be less than 1.0 ton per year. OAC Chapter 3745-31 requires a permittee to apply for and obtain a new or modified FEPTIO and operate prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any toxic air contaminant to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new FEPTIO.

e) Reporting Requirements

- (1) The permittee shall submit an annual PER to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this permit. The PER shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.
- (2) The permittee shall submit quarterly deviation (excursion) reports that identify:
- a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the PTE of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:
 - i. the 93.86 tons VOC per rolling, 12-month period emission limitation;
 - ii. the maximum allowable gallon usage rates and VOC content limitations specified in paragraphs c)(1) and c)(2); and



- iii. the maximum emissions limitations for each HAP and total combined HAPs specified in paragraph c)(3).
- b. the probable cause of each deviation (excursion);
- c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
- d. the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the Northwest District Office).

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:

7.30 tons VOC/yr from coating and cleanup materials for each emissions unit individually.

Applicable Compliance Method:

Compliance shall be based on the recordkeeping requirements as specified in d)(1).

b. Emission Limitation:

93.86 tons VOC per rolling, 12-month period for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P064-P066 combined.

Applicable Compliance Method:

Compliance shall be based on the recordkeeping requirements as specified in d)(2) and d)(3).

c. Emission Limitation:

9.90 tons per rolling, 12-month period for any individual HAP and 24.90 tons per rolling, 12-month period for any combination of HAPs for emission units K004, P019-P028, P031-P036, P040, P041, P043, P047, P054, P055, P057, P058, P060-P063, and P065-P066 combined.

Applicable Compliance Method:

Compliance shall be based on the recordkeeping requirements as specified in d)(4).

- g) Miscellaneous Requirements
 - (1) None.