State of Ohio Environmental Protection Agency

Street Address:
Lazarus Gov. Center
50 West Town Street, Suite 700
Columbus, OH 43215

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

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

CERTIFIED MAIL

RE: FINAL PERMIT TO INSTALL MODIFICATION
WYANDOT COUNTY
Application No: 03-17278
Fac ID: 0388010022

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

DATE: 4/15/2008

Guardian Automotive Products
Morris Lear
12688 SH 67
Upper Sandusky, OH 43351

Enclosed Please find a modification to the Ohio EPA Permit To Install referenced above which will modify the terms and conditions.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of $70.00 which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, OH 43215

Sincerely,

Michael W. Ahern

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

CC: **USEPA** **NWDO**

FINAL ADMINISTRATIVE MODIFICATION OF PERMIT TO INSTALL 03-17278

Application Number: 03-17278

Facility ID: 0388010022

Permit Fee: **$0**

Name of Facility: Guardian Automotive Products

Person to Contact: Morris Lear

Address: 12688 SH 67
Upper Sandusky, OH 43351

Location of proposed air contaminant source(s) [emissions unit(s)]:
12688 SH 67 South
Upper Sandusky, **Ohio**

Description of proposed emissions unit(s):
Administrative modification to remove operational restriction that no photochemically reactive materials may be used in the emissions units.

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Chris Korleski
Director

Part I - GENERAL TERMS AND CONDITIONS

A. Permit to Install General Terms and Conditions

1. Compliance Requirements

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

2. Reporting Requirements

The permittee shall submit required reports in the following manner:

a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.

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

3. Records Retention Requirements

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

4. Inspections and Information Requests

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

regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

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

6. Permit Transfers

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

7. Air Pollution Nuisance

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

8. Termination of Permit to Install

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

9. Construction of New Sources(s)

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

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

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

10. Public Disclosure

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

11. Applicability

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

12. Best Available Technology

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

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

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this

permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the emissions unit(s) covered by this permit.

14. Construction Compliance Certification

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

15. Fees

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

B. Permit to Install Summary of Allowable Emissions

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

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

Pollutant	Tons Per Year
OC	37.19
PE	32.12

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

A. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment - (R020) - PL-4 line consisting of a spray *operation* of an isopropyl alcohol, water, diatomaceous earth mixture, silkscreen machine and drying oven (administrative modification to PTI 03-17278, issued 6/7/07 to remove requirements associated with OAC rule 3745-21-07).

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	5.45 lbs organic compounds (OC)/hr, 23.87 tons OC/year
OAC rule 3745-31-05(C)	See A.2.a
OAC rule 3745-17-11(B)	32.12 lbs particulate emissions (PE)/hr combined with R019 See A.2.b & A.2.c
OAC rule 3745-17-07 (A)	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average except as provided by rule. (See A.2.d)
OAC rule 3745-21-07(G)(2)	See A.2.f

2. Additional Terms and Conditions

2.a Permit to Install 03-17278 for this air contaminant source takes into account the following voluntary restrictions as proposed by the permittee for the purpose of avoiding Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3).

i. use of a baghouse achieving a maximum outlet concentration of 0.01 grains/dscf of particulate matter 10 microns or less in size PM10 and an associated 0% opacity, as a six-minute average for application of water/alcohol/diatomaceous earth mixture.

The potential to emit for this emissions unit is 7.49 tons PM10/year and was determined by multiplying the maximum outlet concentration of 0.01 grains PM10/dscf by a maximum volumetric air flow of 20,000 acfm, applying the

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appropriate conversion factors of 7000 grains/lb, 1 dscf/1acfm, and 60 minutes/hr and multiplying by 8760 hrs/yr and dividing by 2000 lbs/ton.

All particulate matter emissions are PM10.

2.b The maximum allowable mass rate of emissions determined by this rule is a grouped limit based on OAC rule 3745-17-11(A)(3).

2.c The potential to emit for emissions of particulate matter from this emissions unit (See A.2.b) is less than the emission limitation pursuant to this rule.

2.d The opacity restriction of 0%, as a six-minute average in accordance with A.2.b above is less than the opacity limitation pursuant to this rule.

2.e The hourly emission limitation represents the potential to emit for this emissions unit. Therefore, no monitoring, record keeping, or reporting requirements are necessary to ensure compliance with this emission limitation.

2.f On February 18, 2008 Ohio EPA rescinded existing rule 3745-21-07 of the Ohio Administrative Code (OAC), "Control of emissions of organic materials from stationary sources.", and adopted new rule 3745-21-07. The new OAC rule 3745-21-07 does not establish any requirements for this emissions unit.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for the silkscreen coating and water/alcohol/diatomaceous earth coating operations:

   a. the company identification for each silkscreen coating and water/alcohol/diatomaceous earth mixture employed in this emission unit;

   b. the number of gallons of each silkscreen coating and water/alcohol/diatomaceous earth mixture employed;

   c. the organic compound (OC) content of each silkscreen coating and water/alcohol/diatomaceous earth mixture , in lbs/gallon, as applied;

   d. the total OC emission rate for each silkscreen coating and water/alcohol/diatomaceous earth mixture employed, in lbs/month (sum of c x d for each silkscreen coating and water/alcohol/diatomaceous earth mixture employed);

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e. the annual year to date OC emissions from all silkscreen coatings and water/alcohol/diatomaceous earth mixtures employed (sum of e for each calendar month to date from January to December).

2. The permittee shall properly install, operate, and maintain equipment to continuously monitor and the pressure drop, in inches of water, across the baghouse during the operation of this emissions unit, including periods of startup and shutdown. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop on a daily basis.

   Whenever the monitored value for the pressure drop deviates from the range specified below, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation: the date and time the deviation began and the magnitude of the deviation at that time, the date(s) the investigation was conducted, the names of the personnel who conducted the investigation, and the findings and recommendations.

   In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range specified below, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken: a description of the corrective action, the date it was completed, the date and time the deviation ended, the total period of time (in minutes) during which there was a deviation, the pressure drop readings immediately after the corrective action, and the names of the personnel who performed the work. Investigation and records required by this paragraph does not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

   The acceptable range for the pressure drop across the baghouse is 3 to 5 inches of water

   This range is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the range based upon information obtained during future particulate emission tests that demonstrate compliance with the allowable particulate emission rate for this emissions unit. In addition, approved revisions to the range will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of an administrative modification.

3. The permit to install for this emission unit R020 and R019 was evaluated based on the actual materials and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied to this emissions unit of each toxic pollutant, using data from the permit to install application, and

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modeling was performed for the toxic pollutant (s) emitted at over a ton per year using the SCREEN 3.0 (or other approved) model, was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC), calculated as required in Engineering Guide #70. The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: silver
TLV (mg/m3): 0.01
Maximum Hourly Emission Rate (lbs/hr): 1.84
Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 1.84
MAGLC (ug/m3): 2.38

4. The above described evaluation determined that the maximum ground level concentration for the new or modified source was less than 80% of the MAGLC. Per ORC 3704.03(F)(4)(b), the owner or operator shall submit an annual report that describes any changes to the emissions unit that affect the air toxic modeling. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

   a. changes in the composition of the materials used or the use of new materials, that would result in the emission of a compound or chemical with a lower Threshold Limit Value (TLV) than the lowest TLV previously Modeled, as documented in the most current version of the American Conference of Governmental Industrial Hygienists' (ACGIH's) handbook entitled "TLVs and BEIs" (Threshold Limit Values for Chemical Substances and Physical Agents, Biological Exposure Indices");

   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.).

D. Reporting Requirements

1. The permittee shall submit quarterly reports that identify the following information concerning the operation of the control equipment during the operation of this emissions unit:

   a. each period of time when the pressure drop across the baghouse field was outside the range specified by the manufacturer;

   b. an identification of each incident of deviation described in (a) where a prompt investigation was not conducted;

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c. an identification of each incident of deviation described in (a) where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and

d. an identification of each incident of deviation described in (a) where proper records were not maintained for the investigation and/or the corrective action.

These quarterly reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

2. The permittee shall submit annual reports that summarize the total annual actual OC emissions from the application of silkscreen coatings and water/alcohol/diatomaceous earth mixtures. These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.

3. The permittee shall submit annual reports that describe any changes to this emissions unit which affect the air toxic modeling. If no changes were made during the year, then a report shall be submitted stating no changes were made. This report is due by January 31 of each year and shall cover the previous calendar year.

E. Testing Requirements

1. Compliance with the emission limitations in section A.1 of this permit shall be determined in accordance with the following methods:

a. <u>Emission Limitation:</u>
5.45 lbs OC/hr

<u>Applicable Compliance Method:</u>
The hourly allowable OC emission limitation above represents the potential to emit for this emission unit and was established by adding the potential hourly emissions from the water/alcohol/diatearth spray operation to the potential hourly emissions from the silkscreen operation.

The potential to emit from the water/alcohol/earth operation was established by multiplying the maximum hourly coatings usage rate (2.1gallons per hour) by the maximum OC content of all the mixture (1.1 pounds per gallon).

The potential to emit from the silkscreen operation was established by multiplying the maximum hourly coatings usage rate (0.77 gallons per hour) by the worst case coating OC content (4.08 pounds per gallon).

If required, the permittee shall demonstrate compliance with the hourly allowable VOC emission limitation above in accordance with 40 CFR Part 60 Appendix A, Methods 1 through 4 and 18, 25, or 25A, as appropriate.

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b. Emission Limitation:
23.87 tons OC/year

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirements specified in section C.1 of this permit.

c. Emission Limitation:
32.12 lbs PE/hr

Applicable Compliance Method:
The potential to emit for emissions of particulate matter from this emissions unit is less than the emission limitation pursuant to this rule.

The potential to emit for this emissions unit is 1.71 lbs PM10/hr and was determined by multiplying the maximum outlet concentration of 0.01 grain PM10/dscf by a maximum volumetric air flow of 20,000 acfm, and applying the appropriate conversion factors of 7000 grains/lb, 1 dscf/1acfm, and 60 minutes/hr. (All emissions of particulate matter are PM10).

If required, the permittee shall demonstrate compliance with the emission limitation above pursuant to OAC rule 3745-17-03(B)(10).

d. Emission Limitation:
Visible particulate emissions shall not exceed 20% opacity as a 6-minute average except as provided by rule

Applicable Compliance Method:
If required, compliance shall be demonstrated in accordance with OAC rule 3745-17-03(B)(1).

F. Miscellaneous Requirements

None

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

A. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment - (R019) - PL-5 line: consisting of a spray operation of *an* isopropyl alcohol, water, diatomaceous earth mixture, silkscreen machine and drying oven (administrative modification to PTI 03-17278, issued *6/7/07 to remove requirements associated with OAC rule 3745-21-07).*

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	3.04 lbs organic compounds (OC)/hr, 13.32 tons OC/year
OAC rule 3745-31-05(C)	See A.2.a
OAC rule 3745-17-11(B)	32.12 lbs particulate emissions (PE)/hr combined with R020 See A.2.b & A.2.c
OAC rule 3745-17-07 (A)	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average except as provided by rule. (See A.2.d)
OAC rule 3745-21-07(G)(2)	See A.2.f

2. Additional Terms and Conditions

2.a Permit to Install 03-17278 for this air contaminant source takes into account the following voluntary restrictions as proposed by the permittee for the purpose of avoiding Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3).

i. use of a baghouse achieving a maximum outlet concentration of 0.01 grains/dscf of particulate matter 10 microns or less in size PM10 and an associated 0% opacity, as a six-minute average for application of water/alcohol/diatomaceous earth mixture.

The potential to emit for this emissions unit is 7.49 tons PM10/year and was determined by multiplying the maximum outlet concentration of 0.01 grains PM10/dscf by a maximum volumetric air flow of 20,000 acfm, applying the

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appropriate conversion factors of 7000 grains/lb, 1 dscf/1acfm, and 60 minutes/hr and multiplying by 8760 hrs/yr and dividing by 2000 lbs/ton.

All particulate matter emissions are PM10.

2.b The maximum allowable mass rate of emissions determined by this rule is a grouped limit based on OAC rule 3745-17-11(A)(3).

2.c The potential to emit for particulate emissions from this emissions unit (See A.2.b) is less than the emission limitation pursuant to this rule.

2.d The opacity restriction of 0%, as a six-minute average in accordance with A.2.b above is less than the opacity limitation pursuant to this rule.

2.e The hourly emission limitation represents the potential to emit for this emissions unit. Therefore, no monitoring, record keeping, or reporting requirements are necessary to ensure compliance with this emission limitation.

2.f On February 18, 2008 Ohio EPA rescinded existing rule 3745-21-07 of the Ohio Administrative Code (OAC), "Control of emissions of organic materials from stationary sources.", and adopted new rule 3745-21-07. The new OAC rule 3745-21-07 does not establish any requirements for this emissions unit.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for the silkscreen coating and water/alcohol/diatomaceous earth coating operations:

   a. the company identification for each silkscreen coating and water/alcohol/diatomaceous earth mixture employed in this emission unit;

   b. the number of gallons of each silkscreen coating and water/alcohol/diatomaceous earth mixture employed;

   c. the organic compound (OC) content of each silkscreen coating and water/alcohol/diatomaceous earth mixture , in lbs/gallon, as applied;

   d. the total OC emission rate for each silkscreen coating and water/alcohol/diatomaceous earth mixture employed, in lbs/month (sum of c x d for each silkscreen coating and water/alcohol/diatomaceous earth mixture employed);

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e. the annual year to date OC emissions from all silkscreen coatings and water/alcohol/diatomaceous earth mixtures employed (sum of e for each calendar month to date from January to December).

2. The permittee shall properly install, operate, and maintain equipment to continuously monitor and the pressure drop, in inches of water, across the baghouse during the operation of this emissions unit, including periods of startup and shutdown. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop on a daily basis.

   Whenever the monitored value for the pressure drop deviates from the range specified below, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation: the date and time the deviation began and the magnitude of the deviation at that time, the date(s) the investigation was conducted, the names of the personnel who conducted the investigation, and the findings and recommendations.

   In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range specified below, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken: a description of the corrective action, the date it was completed, the date and time the deviation ended, the total period of time (in minutes) during which there was a deviation, the pressure drop readings immediately after the corrective action, and the names of the personnel who performed the work. Investigation and records required by this paragraph does not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

   The acceptable range for the pressure drop across the baghouse is 3 to 5 inches of water

   This range is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the range based upon information obtained during future particulate emission tests that demonstrate compliance with the allowable particulate emission rate for this emissions unit. In addition, approved revisions to the range will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of an administrative modification.

3. The permit to install for this emission units R020 & R019 was evaluated based on the actual materials and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied to this emissions unit of each toxic pollutant, using data from the permit to install application, and

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modeling was performed for the toxic pollutant (s) emitted at over a ton per year using the SCREEN 3.0 (or other approved) model, was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC), calculated as required in Engineering Guide #70. The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: silver
TLV (mg/m3): 0.01
Maximum Hourly Emission Rate (lbs/hr): 1.84
Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 1.84
MAGLC (ug/m3): 2.38

4. The above described evaluation determined that the maximum ground level concentration for the new or modified source was less than 80% of the MAGLC. Per ORC 3704.03(F)(4)(b), the owner or operator shall submit an annual report that describes any changes to the emissions unit that affect the air toxic modeling. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

   a. changes in the composition of the materials used or the use of new materials, that would result in the emission of a compound or chemical with a lower Threshold Limit Value (TLV) than the lowest TLV previously Modeled, as documented in the most current version of the American Conference of Governmental Industrial Hygienists' (ACGIH's) handbook entitled "TLVs and BEIs" (Threshold Limit Values for Chemical Substances and Physical Agents, Biological Exposure Indices");

   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.).

5. The permittee shall submit annual reports that describe any changes to this emissions unit which affect the air toxic modeling. If no changes were made during the year, then a report shall be submitted stating no changes were made. This report is due by January 31 of each year and shall cover the previous calendar year.

D. Reporting Requirements

1. The permittee shall submit quarterly reports that identify the following information concerning the operation of the control equipment during the operation of this emissions unit:

   a. each period of time when the pressure drop across the baghouse field was outside the range specified by the manufacturer;

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b. an identification of each incident of deviation described in (a) where a prompt investigation was not conducted;

c. an identification of each incident of deviation described in (a) where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and

d. an identification of each incident of deviation described in (a) where proper records were not maintained for the investigation and/or the corrective action.

These quarterly reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

2. The permittee shall submit annual reports that summarize the total annual actual OC emissions from the application of silkscreen coatings and water/alcohol/diatomaceous earth mixtures. These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.

3. The permittee shall submit annual reports that describe any changes to this emissions unit which affect the air toxic modeling. If no changes were made during the year, then a report shall be submitted stating no changes were made. This report is due by January 31 of each year and shall cover the previous calendar year.

E. Testing Requirements

1. Compliance with the emission limitations in section A.1 of this permit shall be determined in accordance with the following methods:

a. <u>Emission Limitation:</u>
3.04 lbs OC/hr

<u>Applicable Compliance Method:</u>
The hourly allowable OC emission limitation above represents the potential to emit for this emission unit and was established adding the potential hourly emissions from the water/alcohol/diatomaceous earth operation to the potential hourly emissions from the silkscreen operation.

The potential to emit from the water/alcohol/diatomaceous earth operation was established by multiplying the maximum hourly coatings usage rate (0.91gallons per hour) by the maximum OC content of all the mixture (1.1 pounds per gallon).

The potential to emit from the silkscreen operation was established by multiplying the maximum hourly coatings usage rate (0.50 gallons per hour) by the worst case coating OC content (4.08 pounds per gallon)

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If required, the permittee shall demonstrate compliance with the hourly allowable VOC emission limitation above in accordance with 40 CFR Part 60 Appendix A, Methods 1 through 4 and 18, 25, or 25A, as appropriate.

b. Emission Limitation:
13.32 tons OC/year

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirements specified in section C.1 of this permit.

c. Emission Limitation:
32.12 lbs PE/hr

Applicable Compliance Method:
The potential to emit for particulate emissions from this emissions unit is less than the emission limitation pursuant to this rule.

The potential to emit for this emissions unit is 1.71 lbs PE/hr and was determined by multiplying the maximum outlet concentration of 0.01 grain PE/dscf by a maximum volumetric air flow of 20,000 acfm, and applying the appropriate conversion factors of 7000 grains/lb, 1 dscf/1acfm, and 60 minutes/hr.

If required, the permittee shall demonstrate compliance with the emission limitation above pursuant to OAC rule 3745-17-03(B)(10).

d. Emission Limitation:
Visible particulate emissions shall not exceed 20% opacity as a 6-minute average except as provided by rule

Applicable Compliance Method:
If required, compliance shall be demonstrated in accordance with OAC rule 3745-17-03(B)(1).

F. Miscellaneous Requirements

None

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