OhioEPA

State of Ohio Environmental Protection Agency

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

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

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

RE: FINAL PERMIT TO INSTALL
DEFIANCE COUNTY
Application No: 03-3115

CERTIFIED MAIL

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

DATE: November 3, 1999

GM Powertrain, General Motors Corp
William R Schlatter
26427 State Route 281 East
Defiance, OH 43512-0070

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, buy it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 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. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
236 East Town Street, Room 300
Columbus, Ohio 43215

Very truly yours,

Thomas G. Rigo

Thomas G. Rigo, Manager
Field Operations and Permit Section
Division of Air Pollution Control

cc: USEPA
Ohio EPA, Northwest District Office

FINAL PERMIT TO INSTALL 03-3115

Application Number:	03-3115
APS Premise Number:	0320010001
Permit Fee:	**$2,600**
Name of Facility:	GM Powertrain, General Motors Corp
Person to Contact:	William R Schlatter
Address:	26427 State Route 281 East
	Defiance, OH 43512-0070

Location of proposed air contaminant source(s) [emissions unit(s)]:
26427 State Route 281 East
Defiance, **OHIO**

Description of proposed emissions unit(s):
3 COLD BOX CORE MACHINES W/WET SCRUBBER 1 CORE DIPPING OPERATION W/OVEN.

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Part I - GENERAL TERMS AND CONDITIONS

A. State and Federally Enforceable Permit To Install General Terms and Conditions

1. Monitoring and Related Recordkeeping and Reporting Requirements

a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:

i. The date, place (as defined in the permit), and time of sampling or measurements.

ii. The date(s) analyses were performed.

iii. The company or entity that performed the analyses.

iv. The analytical techniques or methods used.

v. The results of such analyses.

vi. The operating conditions existing at the time of sampling or measurement.

b. 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.

c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:

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

ii. Quarterly written reports of (i) any deviations from federally enforceable <u>emission limitations</u>, <u>operational restrictions</u>, <u>and control device operating parameter limitations</u>, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to the appropriate Ohio EPA District Office or local air agency. The written reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. See B.11 below if no deviations occurred during the quarter.

iii. Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted to the appropriate Ohio EPA District Office or local air agency every six months, i.e., by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.

iv. Each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.

2. 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, i.e., upset, 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. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to 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 emission unit(s) that is (are) served by such control system(s).

3. Risk Management Plans

If applicable, the permittee shall develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"); and, pursuant to 40 CFR 68.215(a), the permittee shall submit either of the following:

a. a compliance plan for meeting the requirements of 40 CFR Part 68 by the date specified in 40 CFR 68.10(a) and OAC 3745-104-05(A); or

b. as part of the compliance certification submitted under 40 CFR 70.6(c)(5), a certification statement that the source is in compliance with all requirements of 40 CFR Part 68 and OAC Chapter 3745-104, including the registration and submission of the risk management plan.

4. Title IV Provisions

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

5. Severability Clause

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.

6. General Requirements

a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.

b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.

c. This permit may be modified, reopened, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.

d. This permit does not convey any property rights of any sort, or any exclusive privilege.

e. 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 request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

7. 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.

8. Federal and State Enforceability

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA, the State, and citizens under the Act. All other terms and conditions of this permit shall not be federally

enforceable and shall be enforceable under State law only.

9. Compliance Requirements

a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.

b. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:

i. At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.

ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with ORC section 3704.08.

iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.

iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.

c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:

i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.

ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

10. Permit To Operate Application

a. If the permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77, the permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the

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

b. If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35 , the source(s) identified in this Permit To Install is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. Permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within thirty (30) days after commencing operation of the source(s) covered by this permit.

B. State Only Enforceable 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 Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

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

3. 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.

4. 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.

5. 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.

6. 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 are inadequate 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 prove to be inadequate or cannot meet applicable standards.

7. 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.

8. Applicability

This Permit to Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

9. 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.

10. Construction Compliance Certification

Located at a Title V Facility

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.

11. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)

If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

C. 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
Particulate	9.81
OC	44.63

Part II - FACILITY SPECIFIC TERMS AND CONDITIONS

A. State and Federally Enforceable Permit To Install Facility Specific Terms and Conditions

None.

B. State Only Enforceable Permit To Install Facility Specific Terms and Conditions

None.

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Cold Box Core Machine #116 with scrubber/chemical absorber		PM & OC Short Term Limits
	OAC Rule 3745-31-05	1.135 lbs Particulate Matter (PM)/hr
		5.354 lbs Organic Compounds (OC)/hr
	See A.I.2.b. and c.	2.18 tons PM_{10}/year as a rolling, 12-month summation.
		10.28 tons OC/year as a rolling, 12-month summation. (See A.I.2.b. and c.)
	OAC Rule 3745-17-07 (A)(1) - (3)	20% Opacity, as a 6-minute average, except as provided by rule.
	OAC Rule 3745-17-11 (B)(1)	(See A.I.2.a.)
	OAC Rule 3745-21-07 (G)(2)	(See A.I.2.d.)

2. Additional Terms and Conditions

2.a Applicable requirements established by this OAC Rule are less stringent than the requirements established by OAC Rule 3745-31-05 (See PM hourly mass emission limitation in term A.I.1.).

2.b In order to avoid Prevention of Significant Deterioration (PSD) review for PM_{10} and VOC, the permittee has decided to limit the potential-to-emit from the emissions units of this Permit-to-Install by limiting their hours of operation. In conjunction with this synthetic minor limitation the permittee will also need netting to keep the net increase in emissions of VOC from this permit to less than the significance level for PSD review. PM_{10} is included in the netting write-up for historical purposes only.

2.c For the purposes of PSD applicability, all OC emissions will be considered VOC emissions.

2.d No applicable emissions limitations are established under this rule as only non-photochemically reactive resins and binders are employed.

II. Operational Restrictions

1. The permittee shall not employ any binder and/or resin system in this emissions unit which is a photochemically reactive material. A photochemically reactive material is defined in OAC rule 3745-21-01.

2. The maximum annual operating rate for this emissions unit shall not exceed 3840 hours, based upon a rolling, 12-month summation of the operating hours.

   To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the operating hours levels specified in the following table:

Maximum Allowable	Month(s)Cumulative Operating Hours
1	500
1-2	1000
1-3	1500
1-4	2000
1-5	2500
1-6	3000
1-7	3200
1-8	3400
1-9	3600
1-10	3800
1-11	3840
1-12	3840

   After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual operating hours limitation shall be based upon a rolling, 12-month summation of the operating hours.

3. The Ph and water flow rate of the scrubber that controls emissions unit P403 shall be maintained at the following levels:

   a. The scrubber liquor Ph shall be continuously maintained at or below 7 while the emissions units are in operation.

   b. The scrubber liquor flow rate shall be continuously maintained at a value of not less than 20 gallons per minute at all times while the emissions units are in operation.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following information for this emissions unit:

   a. The operating hours for each month.

   b. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the operating hours.

   Also, during the first 12 calendar months of operation, the permittee shall record the cumulative operating hours for each calendar month.

2. The permittee shall properly install, operate and maintain equipment to continuously monitor the scrubber liquor pH and flow rate while this emissions unit is in operation. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

   The permittee shall record the following information each day:

   a. The pH of the scrubber liquor, on a once/shift basis.

   b. The scrubber liquor flow rate, in gallons per minute, on an once/shift basis.

   c. The operating times for the capture (collection) systems, control devices, monitoring equipment, and the associated emissions units.

   d. All periods of time the scrubber was not operating in accordance with the requirements in condition A.II.3. above and the corrective action taken to bring the scrubber into compliance with these operating restrictions.

   On a weekly basis this information shall be collected, reviewed and summarized.

IV. Reporting Requirements

1. The permittee shall notify the Director of any record showing any deviation from the following:

a. Identify all exceedances of the rolling, 12-month operating hours limitation and, for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative operating hours levels.

b. Identify all periods of time during which the scrubber for this emissions unit was not maintained in accordance with the following:

1. The pH of the scrubber liquor exceeded 7.

2. The scrubber liquor flow rate was less than 20.

3. These reports are due by the date described in Part 1 - General Terms and Conditions of this permit under section (A)(1).

V. Testing Requirements

1. The permittee shall conduct, or have conducted, emissions testing in accordance with the following requirements:

a. The emissions testing shall be conducted within 6 months after start-up of the permit.

b. The emissions testing shall be conducted to demonstrate compliance with the allowable mass emission rate(s) for PM and OC.

c. The pH and flow rate of the scrubber liquor shall be recorded during each emissions test run.

d. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for PM, Method 5 of 40 CFR Part 60, Appendix A, and for OC, Method 25A of 40 CFR Part 60, Appendix A.

e. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Director or appropriate Ohio EPA District Office or local air agency.

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

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to

ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee shall include in the report the operating parameters as required in (V)(1)(c) above.

2.. Compliance Methods Requirements:

Compliance with the emission limitation(s) found in the "Air Emissions Summary" of this permit shall be determined in accordance with the following method(s):

a. Emission Limitation:

10.28 TPY based on a rolling 12-month summation

Applicable Compliance Method:

Compliance with the TPY limit will be assumed if the emissions unit is in compliance with its lb/hr limit and operating hours restriction, since the TPY emissions limit is based upon the maximum hourly emissions rate, times the number hours the emissions unit operates.

b. Emission Limitation:

2.18 TPY based on a rolling 12-month summation

Applicable Compliance Method:

Compliance with the TPY limit will be assumed if the emissions unit is in compliance with its lb/hr limit and operating hours restriction, since the TPY emissions limit is based upon the maximum hourly emissions rate, times the number hours the emissions unit operates.

c. Emission Limitation:

20% opacity, except as provided by rule

Applicable Compliance Method:

40 CFR Part 60, Appendix A, Method 9

d. Emission Limitation:

5.354 lbs OC/hr

Applicable Compliance Method:

The permittee shall demonstrate compliance with the emissions limitation based on the results of the stack test required in section A.V.1.

e. Emission Limitation:

1.135 lb PM/hr

Applicable Compliance Method:

The permittee shall demonstrate compliance with the emissions limitation based on the results of the stack test required in section A.V.1. All emissions of PM are assumed to be PM_{10}.

VI. Miscellaneous Requirements

NETTING DETERMINATION

1. Source Description

GMC Powertrain Division- Defiance Plt. plans to install 3 cold box core machines and a core dipping/ oven operation with this Permit to Install.

2. Facility Emissions/Attainment Status

The facility is a major stationary source for PM, SO_2 and CO. Defiance County is attainment/unclassifiable for the above pollutants. The plant has minor emissions of the other criteria pollutants.

3. Contemporaneous Emissions Increases and Decreases

Listed below are the sources that GMC Powertrain has removed or will remove (based on actuals), as well as the new sources.

PM EMISSIONS INCREASE (TPY)

CONST. DATE	STARTUP DATE	PTI#	SOURCE	INCREASE
3-3-93	4/30/94	03-6675	P323 Core Machine;HB #71,72	21.91
3-3-93	4/30/94	03-6675	P324 Core Machine;HB #73,74	20.00
3-3-93	4/30/94	03-6675	P325 Core Machine;HB #75,76	23.02
6-3-93	4/30/94	03-6869	P349 Elec. Holding Furnace	5.96
7-14-93	4/30/94	03-7169	P361 Shell Dip Oven Plt. 2W	0.70
7-14-93	4/30/94	03-7169	P362 HB Shell Core Mach. #44	2.10
9-15-93	7/31/94	03-7198	P366 Shaker - 6.2 L Head - Plt. 1	1.10
10/27/93	7/31/94	03-7217	P367 Grinder 4.3 L & 5.0 L Head-Plt.1	3.15
10/27/93	7/31/94	03-7217	P368 Grinder 6.2 L Head - Plt. 1	3.15

8-3-94	9/30/94	03-7907	P375 Cold Box Core Mach. #88	1.05
4-21-93	1/3/95	03-7105	P358 Cold Box Core Mach. #69-70	0.59
8-3-94	1/3/95	03-7776	P369 Cold Box Core Mach. #68	1.28
8-3-94	1/3/95	03-7907	P372 Cold Box Core Mach. #85	1.05
8-3-94	1/3/95	03-7907	P373 Cold Box Core Mach. #86	0.86
8-3-94	1/3/95	03-7907	P374 Cold Box Core Mach. #87	0.86
4/21/95	8/1/95	03-8573	P376 Core Paste Oven #5- Plt.1	0.21
4/21/95	8/1/95	03-8573	P377 Verticle Core Cooler #5- Plt.1	0.57
4/21/95	8/1/95	03-8573	P378 Core Coating Operation #5- Plt.1	0.31
5/3/95	8/1/95	03-8591	P383 Hot Box Core Mach. #96- Plt. 1	4.14
5/3/95	8/1/95	03-8591	P384 Hot Box Core Mach. #97- Plt. 1	4.14
5/3/95	8/1/95	03-8591	P385 Hot Box Core Mach. #98- Plt. 1	5.80
5/3/95	8/1/95	03-8591	P386 Hot Box Core Mach. #99- Plt. 1	5.80
8-3-94	8/14/95	03-7776	P370 Cold Box Core Mach. #90	0.92
8-3-94	8/21/95	03-7776	P371 Cold Box Core Mach. #91	1.28
5/17/95	10/30/95	03-8574	P380 No. 12 Cleaning Cabinet	20.72
5/17/95	10/30/95	03-8574	P381 Head Grinder- Gen.III-Plt. 1	3.20
5/17/95	10/30/95	03-8574	P382 Gen. III Head Facilities-Misc. Equipment Plt. 1	19.45
4/24/96	9/1/96	03-9568	P393 2.35 TPH Shot Reclaim Syst.	1.10
5/3/95	10/22/96	03-8624	P387 Cold Box Core Mach. #93, 94, 95	0.63
3/27/96	4/1/97	03-9233	P388 H. B. Core Mach. #100-101	3.61
3/27/96	4/1/97	03-9233	P389 H. B. Core Mach. #102-103	5.43
3/27/96	4/1/97	03-9233	P391 H. B. Sand Syst. #100-101	2.26
3/27/96	4/1/97	03-9233	P392 H. B. Sand Syst. #102-103	2.26
5/3/95	4/21/97	03-8580	P379 Cold Box Core Mach. #89- Plt. 1	0.92
3/27/96	4/21/97	03-9233	P390 Dip Dry Coating Operation	0.67
4/23/97	10/1/97	03-10003	P394 C. B. Core Mach. #104, 105, 106	1.40
4/23/97	10/1/97	03-10003	P396 Core Wash Dry Oven #4&5	0.83
8/1/97	12/1/97	03-10531	P401 C. B. Core Mach. #90- Plt. 1	1.13
9/1/97	12/1/97	03-10531	P402 Core Paste Oven @ CB #89 & 90	1.88
4/23/97	2/1/98	03-10003	P395 C. B. Core Mach. #107, 108, 109	1.40
1/11/98	7/11/98	03-10138	P397 C. B. Core Mach. #110, 111, 112	1.38
1/11/98	7/11/98	03-10138	P398 C. B. Core Mach. #113, 114, 115	1.38
5/27/98	7/11/98	03-10138	P399 Core Wash Dry Oven #6&7	0.83
5/27/98	7/11/98	03-10191	P400 Blast Cabinet- sample cast; Plt. 2E	1.10
8/1/97	4/20/98	03-10531	P401 Core Machine C.B. #90	1.13
9/1/97	8/31/98	03-10531	P402 Oven Paste Dry for C.B. #89-90	0.43
4/1/99	01/01/00	03-13115	P403 Cold Box Core Machine #116	2.18
4/1/99	01/01/00	03-13115	P404 Cold Box Core Machine #117	2.18
4/1/99	01/01/00	03-13115	P405 Cold Box Core Machine #118	2.18
4/1/99	01/01/00	03-13115	P406 Core Dipping and Oven	3.27
				192.9 TPY

PM EMISSIONS DECREASE (TPY)

SHUTDOWN DATE	SOURCE	DECREASE
7/15/94	P198 Casting Cleaning- Upper Stoney	55.18
7/15/94	P227 Oven-Dip Dry- @ Horiz. #2	2.02
9/1/94	P217 Core Machine- HB #13	10.36
9/15/94	P291 Core Machine- HB #33	1.55
2/7/95	P174 Line #5 Shakeout	6.03
4/9/95	P228 Oven-Batch- N. Of Sand Lab	11.83
4/14/95	P158 No. 1 Blast Cleaning Cabinet	23.27
4/14/95	P159 No. 9 Blast Cleaning Cabinet	16.19
10/1/95	P119 Oven- Core- Vert #18	5.91
10/1/95	P285 Oven-Dip Dry- @ Vert. #18	0.28
10/1/95	P286 Definner- @ Vert. #18	3.28
2/5/96	P174 Line #5 Shakeout	5.53
5/17/96	P051 Iron Pouring-L #11	1.46
5/17/96	P060 Iron Pouring-L #20	1.46
5/17/96	P061 Mold Cooling #11-20	9.62

5/17/96	P062 Casting Separation- L#11	6.01
5/17/96	P071 Casting Separation- L#20	6.01
5/17/96	P072 Shakeout- L#11 & 12	2.62
5/17/96	P076 Shakeout- L#19 & 20	2.62
7/1/96	P133 Core Machine- HB #4	6.48
12/1/96	P108 Vertical Oven #6	7.23
1/8/97	P267 Core Machine- CB #31	0.37
4/23/97	P206 Core Coating w/ oven; Cam area	0.83
5/1/97	P133 Core Machine- HB #8	5.87
5/1/97	P251 Core Machine- HB #12	5.96
7/1/97	P102 Ovens Horiz- #1	12.04
7/1/97	P133 Core Machine- HB #10	7.43
7/15/97	P133 Core Machine- HB #7	7.71
7/31/97	P041-P046 Ajax Furnaces	61.56
9/1/97	*P139 Line #3 Casting Cooling	1.43
9/1/97	*P142 Line #3 Mold Cooling	2.74
9/1/97	*P173 Line #5 Mold Cooling	3.10
9/1/97	*P188 Cupola #4 Iron trough	2.17
1/1/98	P249 Core Machine- HB #25	11.93
1-2-98	P105 Vertical Oven #3	3.63
1-2-98	P111 Core Oven Vert. #10	2.30
1-2-98	P112 Core Oven Vert. #11	3.74
2/1/98	P133 Core Machine- HB #3	6.48
2/1/98	P133 Core Machine- HB #6	6.48
5/1/98	P133 Core Machine- HB #9	8.06
6/1/98	P185 Core Machine- HB #1	20.38
9/9/98	P267 Core Machines #30, 32	2.9
4/15/00	P258 Core Machines HB #34-35	4.07
4/15/00	P258 Core Machines HB #36-37	4.07
2/15/00	P292 Core Machines HB #38-39	4.07
2/15/00	P270 Core Machines HB #41-42	4.07
4/15/00	P211 and P297 Ovens HB #34-35	1.20
		379.53 TPY

* EU's are still in operation but were previously uncontrolled. GMC Powertrain has installed control equipment on these units and is claiming credit for the actual reduction in emissions.

VOC EMISSIONS INCREASE (TPY)

CONST. DATE	STARTUP DATE	PTI#	SOURCE	INCREASE
3-3-93	4/30/94	03-6675	P323 Core Machine;HB #71,72	25.56
3-3-93	4/30/94	03-6675	P324 Core Machine;HB #73,74	23.34
3-3-93	4/30/94	03-6675	P325 Core Machine;HB #75,76	26.85
7-14-93	4/30/94	03-7169	P361 Shell Dip Oven Plt. 2W	3.33
7-14-93	4/30/94	03-7169	P362 HB Shell Core Mach. #44	2.45
8-3-94	9/30/94	03-7907	P375 Cold Box Core Mach. #88	4.79
4-21-93	1/3/95	03-7105	P358 Cold Box Core Mach. #69-70	2.68
8-3-94	1/3/95	03-7776	P369 Cold Box Core Mach. #68	5.81
8-3-94	1/3/95	03-7907	P372 Cold Box Core Mach. #85	4.79
8-3-94	1/3/95	03-7907	P373 Cold Box Core Mach. #86	3.92
8-3-94	1/3/95	03-7907	P374 Cold Box Core Mach. #87	3.92
4/21/95	8/1/95	03-8573	P378 Core Coating Operation #5- Plt.1	7.31
5/3/95	8/1/95	03-8591	P383 Hot Box Core Mach. #96- Plt. 1	4.84
5/3/95	8/1/95	03-8591	P384 Hot Box Core Mach. #97- Plt. 1	4.84
5/3/95	8/1/95	03-8591	P385 Hot Box Core Mach. #98- Plt. 1	6.77
5/3/95	8/1/95	03-8591	P386 Hot Box Core Mach. #99- Plt. 1	6.77
8-3-94	8/14/95	03-7776	P370 Cold Box Core Mach. #90	4.16
8-3-94	8/21/95	03-7776	P371 Cold Box Core Mach. #91	5.81
5/3/95	10/22/96	03-8624	P387 Cold Box Core Mach. #93, 94, 95	3.42
3/27/96	4/1/97	03-9233	P388 H. B. Core Mach. #100-101	4.21
3/27/96	4/1/97	03-9233	P389 H. B. Core Mach. #102-103	6.33

5/3/95	4/21/97	03-8580	P379 Cold Box Core Mach. #89- Plt. 1	4.16
3/27/96	4/21/97	03-9233	P390 Dip Dry Coating Operation	9.04
4/23/97	10/1/97	03-10003	P394 C. B. Core Mach. #104, 105, 106	6.36
4/23/97	10/1/97	03-10003	P396 Core Wash Dry Oven #4&5	4.96
8/1/97	12/1/97	03-10531	P401 C. B. Core Mach. #90; Plt. 1	5.09
4/23/97	2/1/98	03-10003	P395 C. B. Core Mach. #107, 108, 109	6.36
1/11/98	7/11/98	03-10138	P397 C. B. Core Mach. #110, 111, 112	6.26
1/11/98	7/11/98	03-10138	P398 C. B. Core Mach. #113, 114, 115	6.26
5/27/98	7/11/98	03-10138	P399 Core Wash Dry Oven #6&7	4.96
8/1/97	4/20/97	03-10531	P401 Core Machine C.B. #90	5.09
4/1/99	1/1/00	03-13115	P403 Cold Box Core Machine #116	10.28
4/1/99	1/1/00	03-13115	P404 Cold Box Core Machine #117	10.28
4/1/99	1/1/00	03-13115	P405 Cold Box Core Machine #118	10.28
4/1/99	1/1/00	03-13115	P406 Core Dipping/Oven	13.79
				265.07 TPY

VOC EMISSIONS DECREASE (TPY)

SHUTDOWN DATE	SOURCE	DECREASE
7/15/94	P227 Oven-Dip Dry- @ Horiz. #2	9.45
9/1/94	P217 Core Machine- HB #13	12.09
9/15/94	P291 Core Machine- HB #33	3.12
4/9/95	P228 Oven-Batch- N. Of Sand Lab	13.98
10/1/95	P119 Oven- Core- Vert #18	6.06
10/1/95	P285 Oven-Dip Dry- @ Vert. #18	14.47
7/1/96	P133 Core Machine- HB #4	7.56
12/1/96	P108 Vertical Oven #6	8.55
1/8/97	P267 Core Machine- CB #31	1.68
1/8/97	P267 Core Machine- CB #31	1.68
4/23/97	P206 Core Coating w/ oven; Cam area	11.59
5/1/97	P133 Core Machine- HB #8	6.85
5/1/97	P251 Core Machine- HB #12	6.95
7/1/97	P102 Ovens Horiz- #1	10.08
7/1/97	P133 Core Machine- HB #10	8.66
7/15/97	P133 Core Machine- HB #7	9.00
1/1/98	P249 Core Machine- HB #25	13.92
1-2-98	P105 Vertical Oven #3	4.29
1-2-98	P111 Core Oven Vert. #10	11.51
1-2-98	P112 Core Oven Vert. #11	4.42
2/1/98	P133 Core Machine- HB #3	7.56
2/1/98	P133 Core Machine- HB #6	7.56
5/1/98	P133 Core Machine- HB #9	9.40
6/1/98	P185 Core Machine- HB #1	23.78
9/9/98	P267 Core Machines #30, 32	5.64
4/15/00	P258 Core Machines HB #34-35	11.86
4/15/00	P258 Core Machines HB #36-37	11.86
2/15/00	P292 Core Machines HB #38-39	11.86
2/15/00	P270 Core Machines HB #41-42	11.86
4/15/00	P211 and P297 Ovens HB #34-35	1.42
		268.71 TPY

The new change in emissions, due to the installation of the planned new source(s) in this PTI, over the contemporaneous time period, will be a net decrease of 186.63 TPY of PM_{10} and a net decrease of 3.64 TPY of VOC.

Conclusion

With the increase in emissions from the proposed sources and the removal of the listed sources, a net decrease in facility emissions of TPY of PM_{10} and VOC will result. This entire expansion at the facility, including previous and future new source PTI's, should result in an increase in PM_{10} emissions of less than 15 TPY and VOC emissions of less than 40 TPY. Since the net increase in potential and allowable emissions included on this PTI, and of this entire facility expansion, will be less than the 15 TPY and 40 TPY, PSD significance levels for PM and VOC respectively, the source will net out of the PSD review requirements.

4. The existing P258 Core Machines HB #34-35 (to be shut down on 4/15/2000), P258 Core Machines HB #36-#37 (to be shut down on 4/15/2000), P292 Core Machines HB #38-#39 (to be shut down on 2/15/2000), P270 Core Machines #41-#42 (to be shut down on 2/15/2000) will result in decreases of 4.07 tons per year of PM emissions and 11.86 tons per year VOC emissions for each set of core machines based upon an estimated two year average of actual emissions using years 1999 and 2000, and P211 and P297 Ovens HB #34-#35 (to be shut down on 4/15/2000) will result in decreases of 1.20 tons per year of PM emissions and 1.42 tons per year VOC emissions based upon an estimated two year average of actual emissions using years 1999 and 2000 shall be permanently shut down upon startup of P403 Cold Box Core Machine #116, P404 Cold Box Core Machine #117, P405 Cold Box Core Machine #118, and P406 Core Dipping and Oven.

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Cold Box Core Machine #116		

2. Additional Terms and Conditions

2.a None.

II. Operational Restrictions

1. This permit allows the use of materials specified by the permittee in the permit to install application for this emissions unit. To fulfill the best available technology requirements of (OAC) rule 3745-31-05 and to ensure compliance with OAC rule 3745-15-07 (Air Pollution Nuisances Prohibited), the emission limitation(s) specified in this permit was (were) established using the Ohio EPA's "Air Toxic Policy" and is (are) based on both the materials used and the design parameters of the emissions unit's exhaust system, as specified in the application. The Ohio EPA's "Air Toxic Policy" was applied for each pollutant using the SCREEN 3.0 model and comparing the predicted 1-hour maximum ground-level concentration to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for each pollutant:

   Pollutant: Triethylamine

   TLV (ug/m3): 976.1

   Maximum Hourly Emission Rate (lbs/hr): 2.76 (*)

   Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 74.31 (**)

   MAGLC (ug/m3): 97.61

* Triethylamine is the air toxic with the lowest TLV. The emission rate is calculated based upon the triethylamine representing 12.5% of the total weight of OC emitted from P403, P404, P405, and P406.

** Stack parameters for P403 - P405 are identical. The model for P406 was run using different stack parameters. The MAGLC represented here is the sum of all 4 model runs.

OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by the OAC rule 3745-31-01. The permittee is hereby advised that the following changes to the process may be determined to be a "modification":

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

b. changes to the emissions unit or its exhaust parameters (e.g., increased emission rate [not including an increase in an "allowable" emission limitation specified in the terms and conditions of this permit], reduced exhaust gas flow rate, and decreased stack height);

c. changes in the composition of the materials used, or use of new materials, that would result in the emission of an air contaminant not previously permitted; and,

d. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant that has a listed TLV.

The Ohio EPA will not consider any of the above-mentioned as a "modification" requiring a permit to install, if the following conditions are met:

a. the change is not otherwise considered a "modification" under OAC Chapter 3745-31;

b. the permittee can continue to comply with the allowable emission limitations specified in its permit to install; and,

c. prior to the change, the applicant conducts an evaluation pursuant to the Air Toxic Policy, determines that the changed emissions unit still satisfies the Air Toxic Policy, and the permittee maintains documentation that identifies the change and the results of the application of the Air Toxic Policy for the change.

For any change to the emissions unit or its method of operation that either would require an increase in the emission limitation(s) established by this permit or would otherwise be considered a "modification" as defined in OAC rule 3745-31-01, the permittee shall obtain a final permit to install prior to the change.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information for each change where the air toxics modeling was required pursuant to the Air Toxics Policy:

   a. Background data that describes the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.); and

   b. a copy of the resulting computer model runs that show the results of the application of the Air Toxics Policy for the change.

IV. Reporting Requirements

None.

V. Testing Requirements

None.

VI. Miscellaneous Requirements

None.

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Cold Box Core Machine #117 with scrubber/chemical absorber		PM & VOC Short Term Limits
	OAC Rule 3745-31–05	1.135 lbs Particulate Matter (PM)/hr
		5.354 lbs Organic Compounds (OC)/hr
	See A.I.2.b. and c.	2.18 tons PM_{10}/year as a rolling, 12-month summation.
		10.28 tons OC/year as a rolling, 12-month summation. (See A.I.2.b. and c.)
	OAC Rule 3745-17-07 (A)(1) - (3)	20% Opacity, as a 6-minute average, except as provided by rule.
	OAC Rule 3745-17-11 (B)(1)	(See A.I.2.a.)
	OAC Rule 3745-21-07 (G)(2)	(See A.I.2.d.)

2. Additional Terms and Conditions

2.a Applicable requirements established by this OAC Rule are less stringent than the requirements established by OAC Rule 3745-31-05 (See PM hourly mass emission limitation in term A.I.1.).

2.b In order to avoid Prevention of Significant Deterioration (PSD) review for PM_{10} and VOC, the permittee has decided to limit the potential-to-emit from the emissions units of this Permit-to-Install by limiting their hours of operation. In conjunction with this synthetic minor limitation the permittee will also need netting to keep the net increase in emissions of VOC from this permit to less than the significance level for PSD review. PM_{10} is included in the netting write-up for historical purposes only.

2.c For the purposes of PSD applicability, all OC emissions will be considered VOC emissions.

2.d No applicable emissions limitations are established under this rule as only non-photochemically reactive resins and binders are employed.

II. Operational Restrictions

1. The permittee shall not employ any binder and/or resin system in this emissions unit which is a photochemically reactive material. A photochemically reactive material is defined in OAC rule 3745-21-01.

2. The maximum annual operating rate for this emissions unit shall not exceed 3840 hours, based upon a rolling, 12-month summation of the operating hours.

   To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the operating hours levels specified in the following table:

Month(s)	Maximum Allowable Cumulative Operating Hours
1	500
1-2	1000
1-3	1500
1-4	2000
1-5	2500
1-6	3000
1-7	3200
1-8	3400
1-9	3600
1-10	3800
1-11	3840
1-12	3840

   After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual operating hours limitation shall be based upon a rolling, 12-month summation of the operating hours.

3. The Ph and water flow rate of the scrubber that controls emissions unit P403 shall be maintained at the following levels:

   a. The scrubber liquor Ph shall be continuously maintained at or below 7 while the emissions units are in operation.

   b. The scrubber liquor flow rate shall be continuously maintained at a value of not less than 20 gallons per minute at all times while the emissions units are in operation.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following information for this emissions unit:

   a. The operating hours for each month.

   b. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the operating hours.

   Also, during the first 12 calendar months of operation, the permittee shall record the cumulative operating hours for each emissions unit for each calendar month.

2. The permittee shall properly install, operate and maintain equipment to continuously monitor the scrubber liquor pH and flow rate while this emissions unit is in operation. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

   The permittee shall record the following information each day:

   a. The pH of the scrubber liquor, on a once/shift basis.

   b. The scrubber liquor flow rate, in gallons per minute, on an once/shift basis.

   c. The operating times for the capture (collection) systems, control devices, monitoring equipment, and the associated emissions units.

   d. All periods of time the scrubber was not operating in accordance with the requirements in condition A.II.3. above and the corrective action taken to bring the scrubber into compliance with these operating restrictions.

   On a weekly basis this information shall be collected, reviewed and summarized.

IV. Reporting Requirements

1. The permittee shall notify the Director of any record showing any deviation from the following:

a. Identify all exceedances of the rolling, 12-month operating hours limitation and, for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative operating hours levels.

b. Identify all periods of time during which the scrubber for this emissions unit was not maintained in accordance with the following:

i. The pH of the scrubber liquor exceeded 7.

ii. The scrubber liquor flow rate was less than 20.

iii. These reports are due by the date described in Part 1 - General Terms and Conditions of this permit under section (A)(1).

V. Testing Requirements

1. The permittee shall conduct, or have conducted, emissions testing in accordance with the following requirements:

a. The emissions testing shall be conducted within 6 months after start-up of the permit.

b. The emissions testing shall be conducted to demonstrate compliance with the allowable mass emission rate(s) for PM and OC.

c. The pH and flow rate of the scrubber liquor shall be recorded during each emissions test run.

d. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for PM, Method 5 of 40 CFR Part 60, Appendix A, and for OC, Method 25A of 40 CFR Part 60, Appendix A.

e. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Director or appropriate Ohio EPA District Office or local air agency.

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

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee shall include in the report the operating parameters as required in (V)(1)(c) above.

2. Compliance Methods Requirements:

Compliance with the emission limitation(s) found in the "Air Emissions Summary" of this permit shall be determined in accordance with the following method(s):

a. Emission Limitation:

10.28 TPY based on a rolling 12-month summation

Applicable Compliance Method:

Compliance with the TPY limit will be assumed if the emissions unit is in compliance with its lb/hr limit and operating hours restriction, since the TPY emissions limit is based upon the maximum hourly emissions rate, times the number hours the emissions unit operates.

b. Emission Limitation:

2.18 TPY based on a rolling 12-month summation

Applicable Compliance Method:

Compliance with the TPY limit will be assumed if the emissions unit is in compliance with its lb/hr limit and operating hours restriction, since the TPY emissions limit is based upon the maximum hourly emissions rate, times the number hours the emissions unit operates.

c. Emission Limitation:

20% opacity, except as provided by rule

Applicable Compliance Method:

40 CFR Part 60, Appendix A, Method 9

d. Emission Limitation:

5.354 lbs OC/hr

Applicable Compliance Method:

The permittee shall demonstrate compliance with the emissions limitation based on the results of the stack test required in section A.V.1.

e. Emission Limitation:

1.135 lb PM/hr

Applicable Compliance Method:

The permittee shall demonstrate compliance with the emissions limitation based on the results of the stack test required in section A.V.1. All emissions of PM are assumed to be PM_{10}.

VI. Miscellaneous Requirements

None.

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Cold Box Core Machine #117		

2. Additional Terms and Conditions

2.a None.

II. Operational Restrictions

1. This permit allows the use of materials specified by the permittee in the permit to install application for this emissions unit. To fulfill the best available technology requirements of (OAC) rule 3745-31-05 and to ensure compliance with OAC rule 3745-15-07 (Air Pollution Nuisances Prohibited), the emission limitation(s) specified in this permit was (were) established using the Ohio EPA's "Air Toxic Policy" and is (are) based on both the materials used and the design parameters of the emissions unit's exhaust system, as specified in the application. The Ohio EPA's "Air Toxic Policy" was applied for each pollutant using the SCREEN 3.0 model and comparing the predicted 1-hour maximum ground-level concentration to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for each pollutant:

Pollutant: Triethylamine

TLV (ug/m3): 976.1

Maximum Hourly Emission Rate (lbs/hr): 2.76 (*)

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 74.31 (**)

MAGLC (ug/m3): 97.61

* Triethylamine is the air toxic with the lowest TLV. The emission rate is calculated based upon the triethylamine representing 12.5% of the total weight of OC emitted from P403, P404, P405, and P406.

** Stack parameters for P403 - P405 are identical. The model for P406 was run using different stack parameters. The MAGLC represented here is the sum of all 4 model runs.

OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by the OAC rule 3745-31-01. The permittee is hereby advised that the following changes to the process may be determined to be a "modification":

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

b. changes to the emissions unit or its exhaust parameters (e.g., increased emission rate [not including an increase in an "allowable" emission limitation specified in the terms and conditions of this permit], reduced exhaust gas flow rate, and decreased stack height);

c. changes in the composition of the materials used, or use of new materials, that would result in the emission of an air contaminant not previously permitted; and

d. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant that has a listed TLV.

The Ohio EPA will not consider any of the above-mentioned as a "modification" requiring a permit to install, if the following conditions are met:

a. the change is not otherwise considered a "modification" under OAC Chapter 3745-31;

b. the permittee can continue to comply with the allowable emission limitations specified in its permit to install; and,

c. prior to the change, the applicant conducts an evaluation pursuant to the Air Toxic Policy, determines that the changed emissions unit still satisfies the Air Toxic Policy, and the permittee maintains documentation that identifies the change and the results of the application of the Air Toxic Policy for the change.

For any change to the emissions unit or its method of operation that either would require an increase in the emission limitation(s) established by this permit or would otherwise be considered a "modification" as defined in OAC rule 3745-31-01, the permittee shall obtain a final permit to install prior to the change.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information for each change where the air toxics modeling was required pursuant to the Air Toxics Policy:

   a. background data that describes the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.); and,

   b. a copy of the resulting computer model runs that show the results of the application of the Air Toxics Policy for the change.

IV. Reporting Requirements

None.

V. Testing Requirements

None.

VI. Miscellaneous Requirements

None.

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Cold Box Core Machine #118 with scrubber/ chemical absorber		PM & OC Short Term Limits
	OAC Rule 3745-31-05	1.135 lbs Particulate Matter (PM)/hr
		5.354 lbs Organic Compounds (OC)/hr
	See A.I.2.b. and c.	2.18 tons PM_{10}/year as a rolling, 12-month summation.
		10.28 tons OC/year as a rolling, 12-month summation. (See A.I.2.b. and c.)
	OAC Rule 3745-17-07 (A)(1) - (3)	20% Opacity, as a 6-minute average, except as provided by rule.
	OAC Rule 3745-17-11 (B)(1)	(See A.I.2.a.)
	OAC Rule 3745-21-07 (G)(2)	(See A.I.2.d.)

2. Additional Terms and Conditions

2.a Applicable requirements established by this OAC Rule are less stringent than the requirements established by OAC Rule 3745-31-05 (See PM hourly mass emission limitation in term A.I.1.).

2.b In order to avoid Prevention of Significant Deterioration (PSD) review for PM_{10} and VOC, the permittee has decided to limit the potential-to-emit from the emissions units of this Permit-to-Install by limiting their hours of operation. In conjunction with this synthetic minor limitation the permittee will also need netting to keep the net increase in emissions of VOC from this permit to less than the significance level for PSD review. PM_{10} is included in the netting write-up for historical purposes only.

2.c For the purposes of PSD applicability, all OC emissions will be considered VOC emissions.

2.d No applicable emissions limitations are established under this rule as only non-photochemically reactive resins and binders are employed.

II. Operational Restrictions

1. The permittee shall not employ any binder and/or resin system in this emissions unit which is a photochemically reactive material. A photochemically reactive material is defined in OAC rule 3745-21-01.

2. The maximum annual operating rate for this emissions unit shall not exceed 3840 hours, based upon a rolling, 12-month summation of the operating hours.

   To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the operating hours levels specified in the following table:

Maximum Allowable	Month(s)Cumulative Operating Hours
1	500
1-2	1000
1-3	1500
1-4	2000
1-5	2500
1-6	3000
1-7	3200
1-8	3400
1-9	3600
1-10	3800
1-11	3840
1-12	3840

   After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual operating hours limitation shall be based upon a rolling, 12-month summation of the operating hours.

3. The Ph and water flow rate of the scrubber that controls emissions unit P403 shall be maintained at the following levels:

a. The scrubber liquor Ph shall be continuously maintained at or below 7 while the emissions units are in operation.

b. The scrubber liquor flow rate shall be continuously maintained at a value of not less than 20 gallons per minute at all times while the emissions units are in operation.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following information for this emissions unit:

   a. The operating hours for month.

   b. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the operating hours.

   Also, during the first 12 calendar months of operation, the permittee shall record the cumulative operating hours for each emissions unit for each calendar month.

2. The permittee shall properly install, operate and maintain equipment to continuously monitor the scrubber liquor pH and flow rate while this emissions unit is in operation. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

   The permittee shall record the following information each day:

   a. The pH of the scrubber liquor, on a once/shift basis.

   b. The scrubber liquor flow rate, in gallons per minute, on an once/shift basis.

   c. The operating times for the capture (collection) systems, control devices, monitoring equipment, and the associated emissions units.

   d. All periods of time the scrubber was not operating in accordance with the requirements in condition A.II.3. above and the corrective action taken to bring the scrubber into compliance with these operating restrictions.

   On a weekly basis this information shall be collected, reviewed and summarized.

IV. Reporting Requirements

1. The permittee shall notify the Director of any record showing any deviation from the following:

   a. Identify all exceedances of the rolling, 12-month operating hours limitation and, for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative operating hours levels.

b. Identify all periods of time during which the scrubber for these emissions units was not maintained in accordance with the following:

i. The pH of the scrubber liquor exceeded 7.

ii. The scrubber liquor flow rate was less than 20.

iii. These reports are due by the date described in Part 1 - General Terms and Conditions of this permit under section (A)(1).

V. Testing Requirements

1. The permittee shall conduct, or have conducted, emissions testing in accordance with the following requirements:

a. The emissions testing shall be conducted within 6 months after start-up of the permit.

b. The emissions testing shall be conducted to demonstrate compliance with the allowable mass emission rate(s) for PM and OC.

c. The pH and flow rate of the scrubber liquor shall be recorded during each emissions test run.

d. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for PM, Method 5 of 40 CFR Part 60, Appendix A, and for OC, Method 25A of 40 CFR Part 60, Appendix A.

e. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Director or appropriate Ohio EPA District Office or local air agency.

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

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee shall include in the report the operating parameters as required in (V)(1)(c) above.

2.. Compliance Methods Requirements:

Compliance with the emission limitation(s) found in the "Air Emissions Summary" of this permit shall be determined in accordance with the following method(s):

a. Emission Limitation:

10.28 TPY based on a rolling 12-month summation

Applicable Compliance Method:

Compliance with the TPY limit will be assumed if the emissions unit is in compliance with its lb/hr limit and operating hours restriction, since the TPY emissions limit is based upon the maximum hourly emissions rate, times the number hours the emissions unit operates.

b. Emission Limitation:

2.18 TPY based on a rolling 12-month summation

Applicable Compliance Method:

Compliance with the TPY limit will be assumed if the emissions unit is in compliance with its lb/hr limit and operating hours restriction, since the TPY emissions limit is based upon the maximum hourly emissions rate, times the number hours the emissions unit operates.

c. Emission Limitation:

20% opacity, except as provided by rule

Applicable Compliance Method:

40 CFR Part 60, Appendix A, Method 9

d. Emission Limitation:

5.354 lbs OC/hr

Applicable Compliance Method:

The permittee shall demonstrate compliance with the emissions limitation based on the results of the stack test required in section A.V.1.

e. Emission Limitation:

1.135 lb PM/hr

Applicable Compliance Method:

The permittee shall demonstrate compliance with the emissions limitation based on the results of the stack test required in section A.V.1. All emissions of PM are assumed to be PM_{10}.

VI. Miscellaneous Requirements

None.

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable rules/Requirements	Applicable Emissions Limitations/Control Measures
Cold Box Core Machine #118		

2. Additional Terms and Conditions

2.a None.

II. Operational Restrictions

1. This permit allows the use of materials specified by the permittee in the permit to install application for this emissions unit. To fulfill the best available technology requirements of (OAC) rule 3745-31-05 and to ensure compliance with OAC rule 3745-15-07 (Air Pollution Nuisances Prohibited), the emission limitation(s) specified in this permit was (were) established using the Ohio EPA's "Air Toxic Policy" and is (are) based on both the materials used and the design parameters of the emissions unit's exhaust system, as specified in the application. The Ohio EPA's "Air Toxic Policy" was applied for each pollutant using the SCREEN 3.0 model and comparing the predicted 1-hour maximum ground-level concentration to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for each pollutant:

   Pollutant: Triethylamine

   TLV (ug/m3): 976.1

   Maximum Hourly Emission Rate (lbs/hr): 2.76 (*)

   Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 74.31 (**)

   MAGLC (ug/m3): 97.61

* Triethylamine is the air toxic with the lowest TLV. The emission rate is calculated based upon the triethylamine representing 12.5% of the total weight of OC emitted from P403, P404, P405, and P406.

** Stack parameters for P403 - P405 are identical. The model for P406 was run using different stack parameters. The MAGLC represented here is the sum of all 4 model runs.

OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by the OAC rule 3745-31-01. The permittee is hereby advised that the following changes to the process may be determined to be a "modification":

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

b. changes to the emissions unit or its exhaust parameters (e.g., increased emission rate [not including an increase in an "allowable" emission limitation specified in the terms and conditions of this permit], reduced exhaust gas flow rate, and decreased stack height);

c. changes in the composition of the materials used, or use of new materials, that would result in the emission of an air contaminant not previously permitted; and

d. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant that has a listed TLV.

The Ohio EPA will not consider any of the above-mentioned as a "modification" requiring a permit to install, if the following conditions are met:

a. the change is not otherwise considered a "modification" under OAC Chapter 3745-31;

b. the permittee can continue to comply with the allowable emission limitations specified in its permit to install; and,

c. prior to the change, the applicant conducts an evaluation pursuant to the Air Toxic Policy, determines that the changed emissions unit still satisfies the Air Toxic Policy, and the permittee maintains documentation that identifies the change and the results of the application of the Air Toxic Policy for the change.

For any change to the emissions unit or its method of operation that either would require an increase in the emission limitation(s) established by this permit or would otherwise be considered a "modification" as defined in OAC rule 3745-31-01, the permittee shall obtain a final permit to install prior to the change.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information for each change where the air toxics modeling was required pursuant to the Air Toxics Policy:

   a. background data that describes the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.); and,

   b. a copy of the resulting computer model runs that show the results of the application of the Air Toxics Policy for the change.

IV. Reporting Requirements

None.

V. Testing Requirements

None.

VI. Miscellaneous Requirements

None.

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Core Dipping and Oven		PM & VOC Short Term Limits
	OAC Rule 3745-31-05	1.70 lbs Particulate Emissions (PE)/hr
		7.18 lbs Organic Compounds (OC)/hr
	See A.I.2.b and c.	3.27 tons PM10/year based on a rolling, 12-month summation.
		13.79 tons OC/year based on a rolling, 12-month summation. (See A.I.2.b. and c.)
	OAC Rule 3745-17-07 (A)(1) - (3)	20% Opacity, as a 6-minute average, except as provided by rule.
	OAC Rule 3745-17-11 (B)(1)	(See A.I.2.a.)
	OAC Rule 3745-21-07 (G)(2)	(See A.I.2.d.)

2. Additional Terms and Conditions

2.a Applicable requirements established by this OAC Rule are less stringent than the requirements established by OAC Rule 3745-31-05.

2.b In order to avoid Prevention of Significant Deterioration (PSD) review for PM_{10} and VOC, the permittee has decided to limit the potential-to-emit from the emissions units of this Permit-to-Install by limiting their hours of operation. In conjunction with this synthetic minor limitation the permittee will also need netting to keep the net increase in emissions of VOC from this permit to less than the significance level for PSD review. PM_{10} is included in the netting write-up for historical purposes only.

2.c For the purposes of PSD applicability, all OC emissions will be considered VOC emissions.

2.d No applicable emissions limitations are established under this rule as only non-photochemically coatings are employed.

II. Operational Restrictions

1. The permittee shall not employ any coatings in this emissions unit that are photochemically reactive materials. Photochemically reactive material is defined in OAC rule 3745-21-01.

2. The maximum annual operating rate for this emissions unit shall not exceed 3840 hours, based upon a rolling, 12-month summation of the operating hours.

   To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the operating hours levels specified in the following table:

Maximum Allowable	Month(s)Cumulative Operating Hours
1	500
1-2	1000
1-3	1500
1-4	2000
1-5	2500
1-6	3000
1-7	3200
1-8	3400
1-9	3600
1-10	3800
1-11	3840
1-12	3840

   After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual operating hours limitation shall be based upon a rolling, 12-month summation of the operating hours.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following information for this emissions unit:

   a. The operating hours for each month.

   b. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the operating hours.

   Also, during the first 12 calendar months of operation, the permittee shall record the cumulative operating hours for each calendar month.

IV. Reporting Requirements

1. The permittee shall notify the Director of any record showing any deviation from the following:

   a. Identify all exceedances of the rolling, 12-month operating hours limitation and, for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative operating hours levels.

2. These reports are due by the date described in Part 1 - General Terms and Conditions of this permit under section (A)(1).

V. Testing Requirements

1. The permittee shall conduct, or have conducted, emissions testing in accordance with the following requirements:

   a. The emissions testing shall be conducted within 3 months after start-up of the permit.

   b. The emissions testing shall be conducted to demonstrate compliance with the allowable mass emission rate(s) for PM and OC.

   c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for PM, Method 5 of 40 CFR Part 60, Appendix A, and for OC, Method 25A of 40 CFR Part 60, Appendix A.

   d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

   Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions

unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

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

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

2. Compliance Methods Requirements:

Compliance with the emission limitation(s) found in the “Air Emissions Summary” of this permit shall be determined in accordance with the following method(s):

a. Emission Limitation:

13.79 TPY

Applicable Compliance Method:

Compliance with the TPY limit will be assumed if the emissions unit is in compliance with its lb/hr limit and operating hours restriction, since the TPY emissions limit is based upon the maximum hourly emissions rate, times the number hours the emissions unit operates.

b. Emission Limitation:

3.27 TPY per emissions unit

Applicable Compliance Method:

Compliance with the TPY limit will be assumed if the emissions unit is in compliance with its lb/hr limit and operating hours restriction, since the TPY emissions limit is based upon the maximum hourly emissions rate, times the number hours the emissions unit operates.

c. Emission Limitation:

20% opacity, except as provided by rule

Applicable Compliance Method:

40 CFR Part 60, Appendix A, Method 9

d. Emission Limitation:

7.18 lbs OC/hr

Applicable Compliance Method:

The permittee shall demonstrate compliance with the emissions limitation based on the results of the stack test required in section A.V.1.

e. Emission Limitation:

1.70 lb PM/hr

Applicable Compliance Method:

The permittee shall demonstrate compliance with the emissions limitation based on the results of the stack test required in section A.V.1. All PM emissions are assumed to be PM_{10}.

VI. Miscellaneous Requirements

None.

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Core Dipping and Oven		

2. Additional Terms and Conditions

2.a None.

II. Operational Restrictions

1. This permit allows the use of materials specified by the permittee in the permit to install application for this emissions unit. To fulfill the best available technology requirements of (OAC) rule 3745-31-05 and to ensure compliance with OAC rule 3745-15-07 (Air Pollution Nuisances Prohibited), the emission limitation(s) specified in this permit was (were) established using the Ohio EPA's "Air Toxic Policy" and is (are) based on both the materials used and the design parameters of the emissions unit's exhaust system, as specified in the application. The Ohio EPA's "Air Toxic Policy" was applied for each pollutant using the SCREEN 3.0 model and comparing the predicted 1-hour maximum ground-level concentration to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for each pollutant:

Pollutant: Triethylamine

TLV (ug/m3): 976.1

Maximum Hourly Emission Rate (lbs/hr): 2.76 (*)

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 74.31 (**)

MAGLC (ug/m3): 97.61

* Triethylamine is the air toxic with the lowest TLV. The emission rate is calculated based upon the triethylamine representing 12.5% of the total weight of OC emitted from P403, P404, P405, and P406.

** Stack parameters for P403 - P405 are identical. The model for P406 was run using different stack parameters. The MAGLC represented here is the sum of all 4 model runs.

OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by the OAC rule 3745-31-01. The permittee is hereby advised that the following changes to the process may be determined to be a "modification":

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

b. changes to the emissions unit or its exhaust parameters (e.g., increased emission rate [not including an increase in an "allowable" emission limitation specified in the terms and conditions of this permit], reduced exhaust gas flow rate, and decreased stack height);

c. changes in the composition of the materials used, or use of new materials, that would result in the emission of an air contaminant not previously permitted; and,

d. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant that has a listed TLV.

The Ohio EPA will not consider any of the above-mentioned as a "modification" requiring a permit to install, if the following conditions are met:

a. the change is not otherwise considered a "modification" under OAC Chapter 3745-31;

b. the permittee can continue to comply with the allowable emission limitations specified in its permit to install; and,

c. prior to the change, the applicant conducts an evaluation pursuant to the Air Toxic Policy, determines that the changed emissions unit still satisfies the Air Toxic Policy, and the permittee maintains documentation that identifies the change and the results of the application of the Air Toxic Policy for the change.

For any change to the emissions unit or its method of operation that either would require an increase in the emission limitation(s) established by this permit or would otherwise be considered a "modification" as defined in OAC rule 3745-31-01, the permittee shall obtain a final permit to install prior to the change.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information for each change where the air toxics modeling was required pursuant to the Air Toxics Policy:

   a. background data that describes the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.); and,

   b. a copy of the resulting computer model runs that show the results of the application of the Air Toxics Policy for the change.

IV. Reporting Requirements

None.

V. Testing Requirements

None.

VI. Miscellaneous Requirements

None.