



State of Ohio Environmental Protection Agency

**RE: DRAFT PERMIT TO INSTALL  
LAWRENCE COUNTY**

**CERTIFIED MAIL**

Street Address:

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

Mailing Address:

Lazarus Gov.  
Center

**Application No:** 07-00586

**Fac ID:** 0744000029

**DATE:** 11/6/2007

Dow Chemical Co - Hanging Rock Plant  
Gale Bradley  
925 County Rd 1A  
Ironton, OH 456388687

You are hereby notified that the Ohio Environmental Protection Agency has made a draft action recommending that the Director issue a Permit to Install for the air contaminant source(s) [emissions unit(s)] shown on the enclosed draft permit. This draft action is not an authorization to begin construction or modification of your emissions unit(s). The purpose of this draft is to solicit public comments on the proposed installation. A public notice concerning the draft permit will appear in the Ohio EPA Weekly Review and the newspaper in the county where the facility will be located. Public comments will be accepted by the field office within 30 days of the date of publication in the newspaper. Any comments you have on the draft permit should be directed to the appropriate field office within the comment period. A copy of your comments should also be mailed to Robert Hodanbosi, Division of Air Pollution Control, Ohio EPA, P.O. Box 1049, Columbus, OH, 43216-1049.

A Permit to Install may be issued in proposed or final form based on the draft action, any written public comments received within 30 days of the public notice, or record of a public meeting if one is held. You will be notified in writing of a scheduled public meeting. Upon issuance of a final Permit to Install a fee of **\$1000** will be due. Please do not submit any payment now.

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

Sincerely,

*Michael W. Ahern*

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

CC: USEPA

PCHD

KY

WV

**LAWRENCE COUNTY**

**PUBLIC NOTICE**

**ISSUANCE OF DRAFT PERMIT TO INSTALL 07-00586 FOR AN AIR CONTAMINANT SOURCE  
FOR Dow Chemical Co - Hanging Rock Plant**

On 11/6/2007 the Director of the Ohio Environmental Protection Agency issued a draft action of a Permit To Install an air contaminant source for **Dow Chemical Co - Hanging Rock Plant**, located at **925 County Rd 1A, Ironton**, Ohio.

Installation of the air contaminant source identified below may proceed upon final issuance of Permit To Install 07-00586:

**Modification to Polystyrene Foam Plant to increase the emissions of HFCs.**

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

Cindy Charles, Portsmouth City Health Department, 740 Second Street, Portsmouth, OH 45662  
[(740)353-5156]



Permit To Install  
Terms and Conditions

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

**DRAFT PERMIT TO INSTALL 07-00586**

Application Number: 07-00586  
Facility ID: 0744000029  
Permit Fee: **To be entered upon final issuance**  
Name of Facility: Dow Chemical Co - Hanging Rock Plant  
Person to Contact: Gale Bradley  
Address: 925 County Rd 1A  
Ironton, OH 456388687

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**925 County Rd 1A**  
**Ironton, Ohio**

Description of proposed emissions unit(s):  
**Modification to Polystyrene Foam Plant to increase the emissions of HFCs.**

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

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Chris Korleski  
Director

Dow Chemical Co - Hanging Rock Plant  
PTI Application: 07-00586  
Issued: To be entered upon final issuance  
Part I - GENERAL TERMS AND CONDITIONS

Facility ID: 0744000029

**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 emission limitations, operational restrictions, and control device operating parameter limitations, 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

**Dow Chemical Co - Hanging Rock Plant**

**Facility ID: 0744000029**

**PTI Application: 07-00586**

**Issued: To be entered upon final issuance**

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. See B.9 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 (i.e., postmarked) to the appropriate Ohio EPA District Office or local air agency every six months, 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. If this permit is for an emissions unit located at a Title V facility, then 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.
- d. The permittee shall report actual emissions pursuant to OAC Chapter 3745-78 for the purpose of collecting Air Pollution Control Fees.

## **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 the permittee is required to 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"), the

**Dow Chemical Co - Hanging Rock Plant**

**Facility ID: 0744000029**

**PTI Application: 07-00586**

**Issued: To be entered upon final issuance**

permittee shall comply with the requirement to register such a plan.

**Dow Chemical Co - Hanging Rock Plant**  
**PTI Application: 07-00586**  
**Issued: To be entered upon final issuance**

**Facility ID: 0744000029**

**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 re-issuance, or modification
- 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, 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 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

8

**Dow Chemical Co - Hanging Rock Plant**

**Facility ID: 0744000029**

**PTI Application: 07-00586**

**Issued: To be entered upon final issuance**

permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

**Dow Chemical Co - Hanging Rock Plant**  
**PTI Application: 07-00586**  
**Issued: To be entered upon final issuance**

**Facility ID: 0744000029**

## **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 any permit-to-install. The permittee shall pay all applicable permit-to-operate fees within thirty days of the issuance of the invoice.

## **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 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 and the State and by citizens (to the extent allowed by section 304 of the Act) 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.

**Dow Chemical Co - Hanging Rock Plant**  
**PTI Application: 07-00586**  
**Issued: To be entered upon final issuance**

**Facility ID: 0744000029**

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

#### **11. 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.

#### **12. Air Pollution Nuisance**

**Dow Chemical Co - Hanging Rock Plant**  
**PTI Application: 07-00586**  
**Issued: To be entered upon final issuance**

**Facility ID: 0744000029**

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.

**Dow Chemical Co - Hanging Rock Plant**  
**PTI Application: 07-00586**  
**Issued: To be entered upon final issuance**

**Facility ID: 0744000029**

**13. Permit-To-Install**

A permit-to-install must be obtained pursuant to OAC Chapter 3745-31 prior to "installation" of "any air contaminant source" as defined in OAC rule 3745-31-01, or "modification", as defined in OAC rule 3745-31-01, of any emissions unit included in this permit.

**B. State Only Enforceable Permit-To-Install General Terms and Conditions**

**1. Compliance Requirements**

The emissions unit(s) identified in this Permit 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 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 (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. 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.

**Dow Chemical Co - Hanging Rock Plant**

**Facility ID: 0744000029**

**PTI Application: 07-00586**

**Issued: To be entered upon final issuance**

**4. Authorization To Install or Modify**

If applicable, authorization to install or modify any new or existing emissions unit included in this permit shall terminate within eighteen months of the effective date of the permit 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.

**5. Construction of New Sources(s)**

This permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. This permit does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the application and terms and conditions of this permit. 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 this permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Issuance of this permit 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.

**6. 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.

**7. 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).

**8. Construction Compliance Certification**

**Dow Chemical Co - Hanging Rock Plant**

**Facility ID: 0744000029**

**PTI Application: 07-00586**

**Issued: To be entered upon final issuance**

If applicable, the applicant shall provide Ohio EPA with a written certification (see enclosed form if applicable) 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.

**9. 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., postmarked), 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

<u>Pollutant</u>	<u>Tons Per Year</u>
VOC (vent)	233.9
VOC (fugitive)	216
HCFC 142b (vent)	733.5
HCFC 142b (fugitive)	11
HFC (vent)	528.6
HFC (fugitive)	15
Other HCFC (vent)	23.49
Other HCFC (fugitive)	4.81
PM/PM10	4.38

**Dow Chemical Co - Hanging Rock Plant**

**Facility ID: 0744000029**

**PTI Application: 07-00586**

**Issued: To be entered upon final issuance**

**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

Emissions Unit ID: P009

**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 operation(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 - (P009) - Polystyrene Foam Plant - mainline and product storage warehouses;** Chapter 31 modification to change emission limits based on additional blowing agent.

Terms in this PTI supercede those in PTI 07-00584 (issued 9/11/07) for this emission unit.

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
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Emissions Unit ID: P009

<p>OAC rule 3745-31-05(A)(3)</p>	<p>7.9 lbs/hr of volatile organic compounds (VOC)</p> <p>33 tpy of VOC as a rolling, 12-month summation</p> <p>216 tpy of VOC fugitive emissions as a rolling, 12-month summation</p> <p>5.5 lbs/hr of HCFC 142b</p> <p>20.3 tpy of HCFC 142b as a rolling, 12-month summation</p> <p>11 tpy HCFC 142b fugitive emissions as a rolling, 12-month summation</p> <p>8.7 lbs/hr of HFC</p> <p>38.1 tpy HFC as a rolling, 12-month summation</p> <p>15 tpy HFC fugitive emissions as a rolling, 12-month summation</p> <p>1.93 lb/hr of Other HCFC</p> <p>0.39 tpy of Other HCFC as a rolling, 12-month summation</p> <p>4.81 tpy of Other HCFC fugitive emissions as a rolling 12-month summation</p> <p>See section A.I.2.b below.</p>
<p>OAC rule 3745-114-01</p>	<p>See sections A.III.2, A.III.3 and A.III.4 below.</p>

**2. Additional Terms and Conditions**

- 2.a** OAC rule 3745-21-07 does not apply to this emissions unit because none of the materials used in this process is a liquid organic material.
- 2.b** The lbs/hr VOC and HFC limitations for this emissions unit were established to reflect the hourly potential to emit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.

**II. Operational Restrictions**

- 1. The maximum annual operating hours using Other HCFC for this emissions unit shall not exceed 400 hours, based upon a rolling, 12-month summation of the operating

Emissions Unit ID: P009

hours.

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

<u>Month(s)</u>	<u>Maximum Allowable Cumulative Operating Hours</u>
1	75
1-2	150
1-3	225
1-4	300
1-5	375
1-6	400
1-7	400
1-8	400
1-9	400
1-10	400
1-11	400
1-12	400

After the first 12 calendar months of operation or the first 12 calendar months 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.

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**III. Monitoring and/or Record Keeping Requirements**

1. The permittee shall maintain monthly records consisting of the following:
  - a. the usage of each blowing agent [HCFC 142b, HFC, Other HCFC and VOC], in pounds;
  - b. the die loss factors;
  - c. the processing losses;
  - d. the storage factor;
  - e. the rolling, 12-month total of the tons of each blowing agent [HCFC 142b, HFC, Other HCFC and VOC ] employed;
  - f. the HCFC 142b, HFC, Other HCFC and VOC vent emissions (calculated by multiplying the total amount of blowing agent used in the process by the die loss factor), and the rolling, 12-month summation of the vent emissions for each compound;
  - g. the HCFC 142b, HFC, Other HCFC and VOC fugitive emissions (calculated by subtracting the die losses and processing losses, from the total amount of blowing agent used in the process, and then multiplying by the storage factor), and the rolling, 12-month summation of the fugitive emissions for each compound;
  - h. the hours of operation when using each blowing agent; and
  - i. the average hourly combined vent and fugitive emissions for HCFC 142b, HFC, Other HCFC and VOC.
  
2. The permit to install for this emissions unit P009 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 for each toxic pollutant, using data from the permit to install application, and modeling was performed for the toxic pollutant(s) emitted at over a ton per year using the SCREEN 3.0 model or other Ohio EPA approved model. The predicted 1-hour maximum ground-level concentration result(s) from the use of the SCREEN 3.0 (or other approved) model, was compared to the Maximum Acceptable Ground-Level

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Concentration (MAGLC), calculated as required in Engineering Guide #70. The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: VOC (blowing agent)

TLV (mg/m<sup>3</sup>): 1720

Maximum Hourly Emission Rate (lbs/hr): 7.9

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m<sup>3</sup>): 624.6

MAGLC (ug/m<sup>3</sup>): 40952

3. Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:
  - a. changes in the composition of the materials used or the use of new materials, that would result in the emission of a compound 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.).
4. If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing permit to install will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) meet(s) the definition of a "modification" under other provisions of the rule, then the permittee shall obtain a final permit to install

Emissions Unit ID: P009

prior to the change.

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

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

#### IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include the following information:
  - a. an identification of each month during which the average hourly VOC emissions exceeded 7.9 lbs/hr, and the actual average hourly VOC emissions for each such month;
  - b. an identification of each month during which the average hourly HCFC 142b emissions exceeded 5.5 lbs/hr, and the actual average hourly HCFC 142b emissions for each such month;
  - c. an identification of each month during which the average hourly HFC emissions exceeded 8.7 lbs/hr, and the actual average hourly HFC emissions for each such month; and
  - d. an identification of each month during which the average hourly Other HCFC emissions exceeded 1.93 lbs/hr, and the actual average hourly Other HCFC emissions for each such month.
2. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month emission limitations for HCFC 142b, HFC, Other HCFC and VOC.
3. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling, 12-month limitation on the hours of operation; and for the first 12 calendar months of operation or the first 12 calendar months following the issuance of this permit, all exceedances of the maximum allowable cumulative hours of operation.

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4. The deviation reports shall be submitted in accordance with the requirements specified in Part 1 - General Term and Condition A of this permit.

**V. Testing Requirements**

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

- a. Emission Limitations:

7.9 lbs/hr of VOC  
5.5 lbs/hr of HCFC 142b  
8.7 lbs/hr of HFC  
1.93 lbs/hr of Other HCFC

Applicable Compliance Method:

Compliance shall be demonstrated based upon the records required in section A.III.1 and the most recent version of the emissions tracking program, approved by the Portsmouth local air agency, and used to calculate emissions from this emission unit. This program has been defined by The Dow Chemical Corporation as the "Foam Blowing Agent Emission Model" and shall be retained on site. This program shall include calculations using monitoring and record keeping as described in section A.III.1 above and/or other appropriate factors to calculate emissions rates from this emissions unit. This program shall be available to an OEPA representative at any time during normal business hours.

If required, compliance shall be demonstrated based upon stack testing using the procedures specified in 40 CFR Part 60, Appendix A.

- b. Emission Limitations:

33 tpy of VOC as a rolling, 12-month summation  
216 tpy of VOC fugitive emissions as a rolling, 12-month summation  
20.3 tpy of HCFC 142b as a rolling, 12-month summation  
11 tpy HCFC 142b fugitive emissions as a rolling, 12-month summation  
38.1 tpy HFC as a rolling, 12-month summation  
15 tpy HFC fugitive emissions as a rolling, 12-month summation  
0.39 tpy of Other HCFC as a rolling, 12-month summation  
4.81 tpy of Other HCFC fugitive emissions as a rolling 12-month summation

**Dow Chemical Co - Hanging Rock Plant**

**DTI Application: 07-00586**

**Facility ID: 0744000029**

Emissions Unit ID: P009

Applicable Compliance Method:

Compliance shall be determined based upon the record keeping requirements described in section A.III.1 of these terms and conditions. The rolling tpy limit shall be demonstrated by the summation of the emissions for the current month and the previous 11 months.

**VI. Miscellaneous Requirements**

None

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**B. State Only Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(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 - (P009) - Polystyrene Foam Plant - mainline and product storage warehouses**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures

**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

**III. Monitoring and/or Record Keeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

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**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 operation(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 - (P015) - Polystyrene Plant - Recycle Line;** Chapter 31 modification to change emission limits based on additional blowing agent.

Terms in this PTI supercede those in PTI 07-00584 (issued 9/11/07) for this emission unit.

<b>Applicable Rules/Requirements</b>	<b>Applicable Emissions Limitations/Control Measures</b>
OAC rule 3745-31-05(A)(3)	1 lb/hr of particulate emissions 4.38 tpy of particulate emissions as a rolling, 12-month summation 45.87 lbs/hr of volatile organic compounds (VOC) 200.9 tpy of VOC as a rolling, 12-month summation 162.8 lbs/hr of HCFC 142b 713.2 tpy of HCFC 142b as a rolling, 12-month summation 112 lbs/hr of HFC 490.5 tpy of HFC as a rolling, 12-month summation 57.75 lbs/hr of Other HCFC 23.10 tpy of Other HCFC as a rolling 12-month summation
OAC rule 3745-17-11(B)	See section A.I.2.a below.
OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
OAC rule 3745-114-01	See section A.III.3, A.III.4 and A.III 5 below.

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Emissions Unit ID: P015

**Issued: To be entered upon final issuance****2. Additional Terms and Conditions**

- 2.a** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

**II. Operational Restrictions**

1. The maximum annual operating hours using Other HCFC for this emissions unit shall not exceed 800 hours, based upon a rolling, 12-month summation of the operating hours.

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

<u>Month(s)</u>	<u>Maximum Allowable Cumulative Operating Hours</u>
1	150
1-2	300
1-3	450
1-4	600
1-5	750
1-6	800
1-7	800
1-8	800
1-9	800
1-10	800
1-11	800
1-12	800

After the first 12 calendar months of operation or the first 12 calendar months 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 Record Keeping Requirements**

1. The permittee shall maintain monthly records consisting of the following:
- the weight fraction of HCFC 142b, HFC, Other HCFC and VOC, used in recycle products for emissions unit P009;

Emissions Unit ID: P015

- b. the amount of scrap recycled, in lbs;
  - c. the scrap cure factor;
  - d. the HCFC 142b, HFC, Other HCFC and VOC emissions;
  - e. the HCFC 142b, HFC, Other HCFC and VOC emissions, calculated as a rolling, 12-month summation;
  - f. the rolling, 12-month total of the tons of HCFC 142b, HFC, Other HCFC and VOC employed;
  - g. the total hours of operation; and
  - h. the average hourly emission rate for HCFC 142b, HFC, Other HCFC and VOC.
2. The permittee shall perform weekly checks, when the emission unit is in operation and when the weather conditions allow, for any visible particulate emissions from the baghouse stack for this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
- a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to eliminate the visible emissions.

If the weekly checks show emissions that are representative of normal operation for 1 operating quarter, the required frequency of visible emission checks may be reduced to bi-weekly (once every two weeks, when the emissions unit is in operation). If a subsequent check by the permittee or an Ohio EPA inspector indicates emissions that are not representative of normal operation, the frequency of emission checks shall revert back to weekly until such time as there is 1 operating quarter of normal visible emissions.

3. The permit to install for this emissions unit P015 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

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emissions unit for each toxic pollutant, using data from the permit to install application, and modeling was performed for the toxic pollutant(s) emitted at over a ton per year using the SCREEN 3.0 model or other Ohio EPA approved model. The predicted 1-hour maximum ground-level concentration result(s) from the use of 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: VOC ( worst case blowing agent)

TLV (mg/m<sup>3</sup>): 1720

Maximum Hourly Emission Rate (lbs/hr): 45.5

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m<sup>3</sup>): 3584

MAGLC (ug/m<sup>3</sup>): 40952

4. Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:
  - a. changes in the composition of the materials used or the use of new materials, that would result in the emission of a compound 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. If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under

Emissions Unit ID: P015

OAC rule 3745-31-01 solely due to the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing permit to install will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) meet(s) the definition of a "modification" under other provisions of the rule, then the permittee shall obtain a final permit to install prior to the change.

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

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

#### IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include the following information:
  - a. an identification of each month during which the average hourly VOC emissions exceeded 45.87 lbs/hr, and the actual average hourly VOC emissions for each such month;
  - b. an identification of each month during which the average hourly HCFC 142b emissions exceeded 162.8 lbs/hr, and the actual average hourly HCFC 142b emissions for each such month;
  - c. an identification of each month during which the average hourly HFC emissions exceeded 112 lbs/hr, and the actual average hourly HFC emissions for each such month; and
  - d. an identification of each month during which the average hourly Other HCFC emissions exceeded 57.75 lbs/hr, and the actual average hourly Other HCFC emissions for each such month.
2. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month emission limitations for HCFC 142b, HFC, Other HCFC and VOC.

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3. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling, 12-month limitation on the hours of operation; and for the first 12 calendar months of operation or the first 12 calendar months following the issuance of this permit, all exceedances of the maximum allowable cumulative hours of operation.
4. The permittee shall submit semiannual written reports that (a) identify all days during which any visible emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Portsmouth local air agency by January 31 and July 31 of each year and shall cover the previous 6-month period.
5. The deviation reports shall be submitted in accordance with the requirements specified in Part 1 - General Term and Condition A.1.c of this permit.

**V. Testing Requirements**

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

Emissions Unit ID: P015

## a. Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

If required, compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Method 9 and the methods and procedures required in OAC rule 3745-17-03(B)(1).

## b. Emission Limitation:

45.87 lbs/hr of VOC  
162.8 lbs/hr of HCFC 142b  
112 lbs/hr of HFC  
57.75 lbs/hr of Other HCFC

Applicable Compliance Method:

Compliance shall be demonstrated based upon the records required in section A.III.1 and the most recent version of the emissions tracking program, approved by the Portsmouth local air agency, and used to calculate emissions from this emission unit. This program has been defined by The Dow Chemical Corporation as the "Foam Blowing Agent Emission Model" and shall be retained on site. This program shall include calculations using monitoring and record keeping as described in section A.III.1 above and/or other appropriate factors to calculate emissions rates from this emissions unit. This program shall be available to an OEPA representative at any time during normal business hours.

If required, compliance shall be demonstrated based upon stack testing using the procedures specified in 40 CFR Part 60, Appendix A.

## c. Emission Limitation:

1 lb/hr of particulate emissions

Applicable Compliance Method:

Compliance may be demonstrated based upon the most recent version of the emissions tracking program, approved by the Portsmouth local air agency, and used to calculate emissions from this emission unit. This program has been defined by The Dow Chemical Corporation as the "Foam Blowing Agent Emission Model" and shall be retained on site. This program shall include calculations using monitoring and record keeping as described in section A.III.1 above and/or other appropriate factors to calculate emissions rates from this emissions unit. This program shall be available to an OEPA representative at

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any time during normal business hours.

If required, compliance shall be demonstrated based upon stack testing using the procedures specified in 40 CFR Part 60, Appendix A.

d. Emission Limitation:

4.38 tpy of particulate emissions as a rolling, 12-month summation

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the allowable hourly particulate emission limitation by the actual annual hours of operation, and then dividing by 2000 lbs/ton.

e. Emission Limitation:

200.9 tpy of VOC as a rolling, 12-month summation

713.2 tpy of HCFC 142b as a rolling, 12-month summation

490.5 tpy of HFC as a rolling, 12-month summation

23.1 tpy of Other HCFC as a rolling 12-month summation

Applicable Compliance Method:

Compliance shall be determined based upon the record keeping requirements described in section A.III.1 of these terms and conditions. The rolling TPY limit shall demonstrated by the summation of the current month emissions and the previous 11 month emissions.

**VI. Miscellaneous Requirements**

None

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**B. State Only Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(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 - (P015) - Polystyrene Plant - Recycle Line**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures

2. **Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

**III. Monitoring and/or Record Keeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

**NEW SOURCE REVIEW FORM B**

PTI Number: 07-00586 Facility ID: 0744000029

FACILITY NAME Dow Chemical Co - Hanging Rock Plant

FACILITY DESCRIPTION Modification to Polystyrene Foam Plant to increase the emissions of HFCs. CITY/TWP Ironton

SIC CODE 3086 SCC CODE 3-08-999-99 EMISSIONS UNIT ID P009

EMISSIONS UNIT DESCRIPTION Polystyrene Foam Plant - mainline and product storage warehouses

DATE INSTALLED 1/08

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter					
PM <sub>10</sub>					
Sulfur Dioxide					
Organic Compounds	attainment	7.9 lbs/hr	33 (vent) 216 (fugitive)	7.9 lbs/hr	33 (vent) 216 (fugitive)
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					
HCFC 142b		5.5 lbs/hr	20.3 (vent) 11 (fugitive)	5.5 lbs/hr	20.3 (vent) 11 (fugitive)
HFC		8.7 lbs/hr	38.1 (vent) 15 (fugitive)	8.7 lbs/hr	38.1 (vent) 15 (fugitive)
Other HCFC		1.93 lbs/hr	0.39 (vent) 4.81(fugitive)	1.93 lbs/hr	0.39 (vent) 4.81(fugitive)

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter Determination Compliance with the terms and conditions of this permit.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY?

yes

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT?

\$

**TOXIC AIR CONTAMINANTS**

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED\*?

YES

NO

IDENTIFY THE AIR CONTAMINANTS:

toxic modeling was performed in an earlier PTI for this source. The pollutant being added with this mod is not an air toxic.

**NEW SOURCE REVIEW FORM B**

PTI Number: 07-00586 Facility ID: 0744000029

FACILITY NAME Dow Chemical Co - Hanging Rock Plant

FACILITY DESCRIPTION Modification to Polystyrene Foam CITY/TWP Ironton

Emissions Unit ID: P015

SIC CODE 3086 SCC CODE 3-01-018-17 EMISSIONS UNIT ID P015  
 EMISSIONS UNIT DESCRIPTION Polystyrene Plant - Recycle Line  
 DATE INSTALLED 1/08

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter		1 lb/hr	4.38	1 lb/hr	4.38
PM <sub>10</sub>					
Sulfur Dioxide					
Organic Compounds	attainment	45.87 lbs/hr	200.9	45.87 lbs/hr	200.9
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other:					
HCFC 142b		168.2	713.2	168.2	713.2
HFC		112	490.5	112	490.5
Other HCFC		57.75	23.1	57.75	23.1

APPLICABLE FEDERAL RULES:

NPS? NESHAP? PSD? OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter Determination compliance with the terms and conditions of this permit.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? yes  
 OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

**TOXIC AIR CONTAMINANTS**

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED\*?                      YES X NO

IDENTIFY THE AIR CONTAMINANTS: toxic modeling was performed in earlier PTI for this source. The pollutant being added with this mod is not an air toxic.