



Street Address:

State of Ohio Environmental Protection Agency  
Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:  
Lazarus Gov.  
Center

**RE: FINAL PERMIT TO INSTALL  
MONTGOMERY COUNTY  
Application No: 08-04134**

**CERTIFIED MAIL**

**DATE:** May 24, 2000

US DOE - Mound  
Patricia Brechlin  
PO Box 66  
Miamisburg, OH 45343-0066

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, 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.

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 Director's 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, Manager  
Field Operations and Permit Section  
Division of Air Pollution Control

CC: USEPA

RAPCA



STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

**Permit To Install  
Terms and Conditions**

**Issue Date: May 24, 2000  
Effective Date: May 24, 2000**

**FINAL PERMIT TO INSTALL 08-04134**

Application Number: 08-04134  
APS Premise Number: 0857091196  
Permit Fee: **\$400**  
Name of Facility: US DOE - Mound  
Person to Contact: Patricia Brechlin  
Address: PO Box 66  
                  Miamisburg, OH 45343-0066

Location of proposed air contaminant source(s) [emissions unit(s)]:

**1 Mound Rd  
Miamisburg, Ohio**

Description of proposed emissions unit(s):

**Modification for Concrete and Demolition Debris Crusher.**

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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Director

## Part I - GENERAL TERMS AND CONDITIONS

### A. Permit to Install General Terms and Conditions

#### 1. Compliance Requirements

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

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

#### 3. Records Retention Requirements

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

#### 4. Inspections and Information Requests

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

US DOE - Mound  
PTI Application: 08-04134  
Issued: May 24, 2000

Facility ID: 0857091196

information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

#### **5. Scheduled Maintenance/Malfunction Reporting**

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

#### **6. Permit Transfers**

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

#### **7. Air Pollution Nuisance**

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

#### **8. Termination of Permit to Install**

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

#### **9. Construction of New Sources(s)**

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources 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.

**10. Public Disclosure**

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

**11. Applicability**

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

**12. Best Available Technology**

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

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

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

**14. Construction Compliance Certification**

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

**US DOE - Mound**  
**PTI Application: 08-04134**  
**Issued: May 24, 2000**

**Facility ID: 0857091196**

completion of construction but prior to startup of the source.

#### **15. Fees**

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

#### **B. Permit to Install Summary of Allowable Emissions**

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

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

<u>Pollutant</u>	<u>Tons Per Year</u>
particulate	0.76
nitrogen oxides	5.40
carbon monoxide	1.20
sulfur dioxide	0.36
organic compounds	0.44

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

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>
F003 - Portable Concrete and Demolition Debris Crushing with Fabric Filter, Screening & Material Handling Operation Powered by a 1.53 mmBtu/hr Diesel Engine, *Modification	<p>OAC rule 3745-31-05 (A)(3)</p> <p>OAC rule 3745-17-07 (B) OAC rule 3745-17-08 (B)</p> <p>OAC rule 3745-17-11 (B)(5)(b)</p> <p>40 CFR Part 61, Subpart H</p>
	OAC rule 3745-17-07 (A)

US D

PTI /

Issued: May 24, 2000

Emissions Unit ID: F003

Applicable Emissions  
Limitations/Control Measures

**Crusher:** 0.86 lb/hr and  
0.68 TPY Particulate;

5% opacity visible emission  
limitation as a 3-minute average

**Diesel Engine:** 6.75 lbs/hr and  
5.40 TPY Nitrogen Oxides;

1.45 lb/hr and 1.20 TPY Carbon  
Monoxide;

0.44 lb/hr and 0.36 TPY Sulfur  
Dioxide;

0.062 lb particulate/mmBtu of  
actual heat input and 0.08 TPY  
Particulate;

0.55 lb/hr and 0.44 TPY Organic  
Compounds;

5% visible emission limitation as a  
3-minute average

The particulate emission limit based  
on the rule is less stringent than the  
limit than that required in OAC rule  
3745-31-05 (A)(3).

**Crusher:** The particulate emission  
limit based on the rule is less  
stringent than the limit than that  
required in OAC rule 3745-31-05

(A)(3).

**Diesel Engine:** The particulate  
emission limit is equivalent to that  
required in OAC rule 3745-31-05  
(A)(3).

See Additional Terms and  
Conditions 2.c below

US D

PTI /

Issued: May 24, 2000

Emissions Unit ID: F003

**2. Additional Terms and Conditions**

- 2.a** The hourly emission limitations were established to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limits.
- 2.b** Compliance with the emission limitations for the crushing, screening and material handling operation shall be achievable through the application of misting water.
- 2.c** Emissions of radionuclides to the ambient air from Department of Energy facilities shall not exceed those amounts that would cause any member of the public to receive in any year an effective dose equivalent of 10 mrem/yr.

**B. Operational Restrictions**

1. The permittee is required to apply water misting sufficient to minimize or eliminate fugitive emissions from emissions unit F003 while it is in operation.
2. The permittee shall burn only distillate fuel oil in this emissions unit.
3. The maximum annual operating hours for this emissions unit shall not exceed 1600 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:

<u>Month(s)</u>	<u>Operating Hours</u>	<u>Maximum Allowable Cumulative</u>
1	133	

US D

PTI /

Emissions Unit ID: **F003****Issued: May 24, 2000**

1-2	266
1-3	399
1-4	532
1-5	665
1-6	798
1-7	931
1-8	1064
1-9	1197
1-10	1330
1-11	1463
1-12	1600

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.

### **C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall conduct daily checks of the water misting application, while the emissions unit F003 is in operation and record the findings in a log.
2. The permittee shall maintain monthly records of the following information:
  - 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.
3. The permittee shall perform daily checks, when the emissions unit is in operation for any visible emissions. The presence or absence of any visible emissions from the emissions unit shall be noted in an operations log.
4. For each day during which the permittee burns a fuel other than distillate fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

### **D. Reporting Requirements**

1. The permittee shall submit semi-annual written reports which (a) identify all days during which any visible particulate emissions were observed and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to the

**US DOE - Mound****PTI / 08 04124****Issue****Facility ID: 0857091196****Emissions Unit ID: F003**

Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

2. The permittee shall submit deviation (excursion) reports to the Director (the appropriate Ohio EPA District Office or local air agency) that identify each day when a fuel other than distillate fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
3. The permittee shall submit deviation (excursion) reports to the Director (the appropriate Ohio EPA District Office or local air agency) which identify all exceedance 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. Each report shall be submitted within 30 days after the deviation occurs.
4. Pursuant to the NESHAP 40 CFR Part 61, Subpart H, the source owner/operator is required to report the following milestones:
  - a. date of commencement of construction ( no later than 30 days after such date);
  - b. anticipated date of initial start-up (not more than 60 days or less than 30 days prior to such date);
  - c. actual date of initial start-up (within 15 days after such date); and
  - d. date of performance testing (at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency  
DAPC - Air Quality Modeling and Planning  
P.O. Box 1049  
Columbus, OH 43216-1049

and **Regional Air Pollution Control Agency**  
**451 West Third Street**  
**Dayton, OH 45422**

US D

PTI /

Issued: May 24, 2000

Emissions Unit ID: F003

**E. Testing Requirements**

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

**for the Crusher**

- a. Emission Limitation-  
0.86 lb/hr Particulate

**Applicable Compliance Method-**

Compliance shall be determined by multiplying the maximum hourly production rate of 150 tons/hr by the total emission factor of 0.0057 lb particulate/ton of throughput for crushing, screening, and material handling, as specified in AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 11.19, Table 11.19.2-2, 1/95 and adjusted accordingly for total particulate.

- b. Emission Limitation-  
0.68 TPY Particulate

**Applicable Compliance Method-**

Compliance shall be determined by multiplying the maximum hourly production rate of 150 tons by the hours of operation as determined in section C.2.; then multiplying by the total emission factor of 0.0057 lb particulate/ton of throughput for crushing, screening, and material handling, as specified in AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 11.19, Table 11.19.2-2, 1/95 and adjusted accordingly for total particulate, and then divided by 2000 lbs/ton.

- c. Emission Limitation-  
5% opacity visible emission limitation as a 3-minute average

**Applicable Compliance Method-**

Compliance with the visible emission limitation is presumed through the use of water misting. If required, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03 (B)(1) using the tests and procedures specified in USEPA Reference Method 9.

**For the Diesel Engine:**

- d. Emission Limitation-  
6.75 lbs/hr Nitrogen Oxides
- Applicable Compliance Method-  
Compliance shall be based upon the emission factor for diesel fuel engines given in AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.3, Table 3.3-1 of 4.41 lb NOx/mmBtu multiplied by the maximum rated capacity of the diesel engine of 1.53 mmBtu/hr.
- e. Emission Limitation-  
5.40 TPY Nitrogen Oxides
- Applicable Compliance Method-  
Compliance shall be based upon the maximum hourly emission rate of 6.75 lbs/hr multiplied by the number of operating hours as determined in section C.2. and divided by 2000 lbs/ton.
- f. Emission Limitation-  
1.45 lb/hr Carbon Monoxide
- Applicable Compliance Method-  
Compliance shall be based upon the emission factor for diesel fuel engines given in AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.3, Table 3.3-1 of 0.95 lb CO/mmBtu multiplied by the maximum rated capacity of the diesel engine of 1.53 mmBtu/hr.
- g. Emission Limitation-  
1.20 TPY Carbon Monoxide
- Applicable Compliance Method-  
Compliance shall be based upon the maximum hourly emission rate of 1.45 lbs/hr multiplied by the number of operating hours as determined in section C.2. and divided by 2000 lbs/ton.
- h. Emission Limitation-  
0.44 lb/hr Sulfur Dioxide
- Applicable Compliance Method-  
Compliance shall be based upon the emission factor for diesel fuel engines given in AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.3, Table 3.3-1 of 0.29 lb SO<sub>2</sub>/mmBtu multiplied by the maximum rated capacity of

US D

PTI /

Issued: May 24, 2000

Emissions Unit ID: **F003**

the diesel engine of 1.53 mmBtu/hr.

- i. Emission Limitation-  
0.36 TPY Sulfur Dioxide

Applicable Compliance Method-

Compliance shall be based upon the maximum hourly emission rate of 0.44 lbs/hr multiplied by the number of operating hours as determined in section C.2. and divided by 2000 lbs/ton.

US D

PTI /

Issued: May 24, 2000

Emissions Unit ID: F003

- j. Emission Limitation-  
0.062 lb Particulate/mmBtu of actual heat input
- Applicable Compliance Method-  
Compliance shall be based upon the emission factor for diesel fuel engines given in AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.3, Table 3.3-1 of 0.062 lb PM/mmBtu. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03 (B)(10).
- k. Emission Limitation-  
0.08 TPY Particulate
- Applicable Compliance Method-  
Compliance shall be based upon the emission factor for diesel fuel engines given in AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.3, Table 3.3-1 of 0.062 lb PM/mmBtu multiplied by the maximum rated capacity of the diesel engine of 1.53 mmBtu/hr, then multiplied by the number of operating hours as determined in section C.2. and divided by 2000 lbs/ton.
- l. Emission Limitation-  
0.55 lb/hr Organic Compounds
- Applicable Compliance Method-  
Compliance shall be based upon the emission factor for diesel fuel engines given in AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.3, Table 3.3-1 of 0.36 lb OC/mmBtu multiplied by the maximum rated capacity of the diesel engine of 1.53 mmBtu/hr.
- m. Emission Limitation-  
0.44 TPY Organic Compounds
- Applicable Compliance Method-  
Compliance shall be based upon the maximum hourly emission rate of 0.55 lbs/hr multiplied by the number of operating hours as determined in section C.2. and divided by 2000 lbs/ton.
- n. Emission Limitation-  
5% opacity visible emission limitation as a 3-minute average

US D

PTI /

Issued: May 24, 2000

Emissions Unit ID: F003

## Applicable Compliance Method-

Compliance with the visible emission limitation is presumed through the use of diesel fuel. If required, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03 (B)(1) using the tests and procedures specified in USEPA Reference Method 9.

**F. Miscellaneous Requirements**

## Notice to Relocate a Portable or Mobile Source

1. Pursuant to Ohio Administrative Code (OAC) rule 3754-31-03 (A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria are met:
  - i. the portable emissions unit is equipped with the best available control technology for such portable emissions unit;
  - ii. the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO);
  - iii. the applicant has provided proper notice of intent to relocate the portable emissions unit to the RAPCA and the appropriate field office having jurisdiction over the new site within a minimum of thirty days prior to the scheduled relocation; and
  - iv. in RAPCA's and the appropriate field office's judgement, the proposed site is acceptable under the rule 3745-15-07 of the Administrative Code.
2. In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria of OAC rule 3745-31-05(F) are met:
  - i. the portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;
  - ii. the portable emissions unit is equipped with best available technology;
  - iii. the portable emissions unit owner has identified the proposed site to Ohio EPA;
  - iv. Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;

- v. a public notice, consistent with Chapter 3745-47 of the Administrative Code, is published in the county where the proposed site is located;
  - vi. the owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and
  - vii. the portable emissions unit owner has provided Ohio EPA with fifteen days written notice of the relocation.
3. Any site approvals issued by the Ohio EPA, pursuant to F.1. or F.2. above, shall be valid for no longer than three years and are subject to renewal.

In order for the RAPCA and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the owner or operator of the portable or mobile emissions unit must file a " Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with the RAPCA (451 W. Third St., Dayton, OH 45422) and the appropriate field office having jurisdiction over the new site. Upon receipt of the notice, the RAPCA and/or appropriate field office having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive Ohio EPA approval prior to relocation of the emissions unit may result in fines and civil penalties.

4. This PTI is for a modification to PTI 08-3941 issued on May 26, 1999 for emissions unit F003-portable concrete and demolition debris crushing, screening and material handling operation powered by a 0.765 mmBtu/hr diesel engine. The size of the engine increased to 1.53 mmBtu/hr which triggered this modification. This modification represents the following emission changes: -0.20 TPY particulate emissions, +2.70 TPY nitrogen oxides, +0.62 TPY carbon monoxide, +0.18 TPY sulfur dioxide, +0.22 TPY organic compounds.

**NEW SOURCE REVIEW FORM B**

PTI Number: 08-04134 Facility ID: 0857091196

FACILITY NAME US DOE - Mound

FACILITY DESCRIPTION Modification for Concrete and Demolition Debris Crusher. CITY/TWP Miamisburg

SIC CODE 2892 SCC CODE 3-05-020-06, 2-01-001-02 EMISSIONS UNIT ID F003

EMISSIONS UNIT DESCRIPTION Portable Concrete and Demolition Debris Crushing, Screening & Material Handling Operation Powered by a 1.53 mmBtu/hr Diesel Engine, \*Modification

DATE INSTALLED 10/99

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	attainment	0.09 lb/hr	0.08	0.09 lb/hr	0.08
PM <sub>10</sub>					
Sulfur Dioxide	attainment	0.44 lb/hr	0.36	0.44 lb/hr	0.36
Organic Compounds	attainment	0.55 lb/hr	0.44	0.55 lb/hr	0.44
Nitrogen Oxides	attainment	6.75 lbs/hr	5.40	6.75 lbs/hr	5.40
Carbon Monoxide	attainment	1.45 lbs/hr	1.20	1.45 lbs/hr	1.20
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? Subpart H PSD? OFFSET POLICY?

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

**Enter Determination: Compliance with the applicable regulations and specified allowable emission rates; water misting during crushing, screening and material handling; record keeping; reporting**

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No

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:

**NEW SOURCE REVIEW FORM B**

PTI Number: 08-04134 Facility ID: 0857091196

FACILITY NAME US DOE - Mound

FACILITY DESCRIPTION	Modification for Concrete and Demolition Debris Crusher.	CITY/TWP	Miamisburg
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**Please describe any hard copy information is being submitted with this recommendation (Please send hard copy information to Pam McGraner, DAPC Central Office - Air Quality Modeling and Planning):**

**Calculation sheet provided in the application will be mailed hard copy.**

**Please provide any additional permit specific notes as you deem necessary:**

This PTI is a modification to PTI 08-3941 issued on May 26, 1999 for a portable concrete and demolition debris crushing, screening and material handling operation powered by a 0.765 mmBtu/hr diesel engine. The size of the engine increased to 1.53 mmBtu/hr which triggered this modification.

### **Permit To Install Synthetic Minor Write-Up**

**NONE**

### **Permit to Install NSR Discussion**

The Mound is applying for a permit to install to modify PTI 08-3941 issued on May 26, 1999 for a portable concrete and demolition debris crushing, screening and material handling operation powered by a 0.765 mmBtu/hr diesel engine.

The size of the engine increased to 1.53 mmBtu/hr and the emission factors for the crushers changed which triggered this PTI modification. All of the allowable emission rates went up except for particulate. Based on the higher horsepower (i.e. > 600 HP), the AER went down. This equipment will be used to minimize waste from the demolition of buildings at the Mound and other Federal Facilities as part of a clean-up effort. The clean-up project at the Mound is expected to last at least 4 years. The unit will be permitted and operated through the U.S.DOE-Mound.

The potential emissions from the crusher, screening and material handling operation, when taking into account water misting, are de minimus. But the calculated emission rates from the diesel powered engine used to power the equipment are not de minimus, therefore, it was decided to permit the entire operation. The crusher, screening and material handling operation and the diesel powered engine comprise emissions unit F003.

The allowable emission rates for the crushing, screening and material handling operation were calculated by multiplying the total of the applicable AP-42 emission factors for those type operations in Table 11.19.2, the Fifth Edition by the maximum hourly and annual production rate in tons. The allowable emission rates for the diesel engine were calculated by multiplying the AP-42 emission factors in Table 3.3-1 by the rated capacity of the equipment of 1.53 lbs/mmBtu.

The NESHAP, 40 CFR Part 61, Subpart H for radionuclide material applies to this emissions unit, so the permit needs to be issued in draft. Also the company has requested federally enforceable restrictions on their operating hours to 1600 hrs/yr, to limit their potential emission rates. This is in line with the facility's choice to accept restrictions on many other emissions units, in order to remain a minor operating facility and therefore avoid Title V permitting requirements.

The BAT is compliance with the applicable regulations and specified emission rates; water misting during the crushing, screening and material handling operation; record keeping; and reporting.

The fee is calculated to be \$400 for a process weight rate of 5000 lbs/hr.

**NEW SOURCE REVIEW FORM B**

PTI Number: 08-04134 Facility ID: 0857091196

FACILITY NAME US DOE - Mound

FACILITY DESCRIPTION	Modification for Concrete and Demolition Debris Crusher.	CITY/TWP	Miamisburg
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Jennifer Marsee 2-11-00

Please fill in the following for this permit:

**TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

<u>Pollutant</u>	<u>Tons Per Year</u>
particulate	0.76
nitrogen oxides	5.40
carbon monoxide	1.20
sulfur dioxide	0.36
organic compounds	0.44