



State of Ohio Environmental Protection Agency

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

CERTIFIED MAIL

Street Address:

Mailing Address:

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

Lazarus Gov.
Center

Application No: 02-22512

Fac ID: 0228000186

DATE: 2/27/2007

KraftMaid Cabinetry Inc
Tim Moore
PO Box 1055 15535 South State St
Middlefield, OH 44062-1055

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 **\$200** 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

NEDO

PA



STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

**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 02-22512

Application Number: 02-22512
Facility ID: 0228000186
Permit Fee: **To be entered upon final issuance**
Name of Facility: KraftMaid Cabinetry Inc
Person to Contact: Tim Moore
Address: PO Box 1055 15535 South State St
Middlefield, OH 440621055

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

**16052 Industrial Parkway
Middlefield, Ohio**

Description of proposed emissions unit(s):

Woodworking operations with dust collector.

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

Chris Korleski
Director

A. Permit to Install General Terms and Conditions

1. Compliance Requirements

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

2. Reporting Requirements

The permittee shall submit required reports in the following manner:

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

3. Records Retention Requirements

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

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections,

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

5. Scheduled Maintenance/Malfunction Reporting

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

6. Permit Transfers

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

7. Air Pollution Nuisance

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

8. Termination of Permit to Install

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

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9. Construction of New Sources(s)

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

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

10. Public Disclosure

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

11. Applicability

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

12. Best Available Technology

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available

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Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

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

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

14. Construction Compliance Certification

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

15. Fees

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

B. Permit to Install Summary of Allowable Emissions

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

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

<u>Pollutant</u>	<u>Tons Per Year</u>
PE	9.99
PM10	5.02

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

A. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment - (P014) - Various woodworking equipment exhausting to 53000 cfm baghouse

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-02(A)(2)	0.005 grain Particulate Emissions (PE) per dscf and 0.0025 grain PM-10 per dscf from the baghouse stack 2.27 lbs PE/hour and 9.95 tons per year from the baghouse stack 1.14 lbs PM-10 per hour and 4.97 tons per year from the baghouse stack 0% visible emissions from the baghouse stack, as a six-minute average 0.041 ton fugitive PE per year and 0.041 ton fugitive PM-10 per year from loading sawdust into trucks 10% visible fugitive emissions from loading sawdust into trucks, as a three-minute average See section A.2.a.
OAC rule 3745-17-11 (B)	See A.2.b.
OAC rule 3745-17-07 (A)(1)	See A.2.b.
OAC rule 3745-17-08 (B)	See A.2.b.
OAC rule 3745-17-07 (B)	See A.2.b.

2. Additional Terms and Conditions

- 2.a This permit to install (PTI 02-22,512) includes Table P1-P14 for emissions unit P0014 - Emission Units which are vented to this baghouse

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- 2.b** The emission limitations specified by OAC rules 3745-17-11(B), 3745-17-07(A)(1), 3745-17-08(B) and 3745-17-07(B) are less stringent than the emission limitations established pursuant to OAC rule 3745-31-02(A)(2).

B. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 1 to 5 inches of water while the emissions unit is in operation. The listed pressure drop range applies at all times except following rebagging until sufficient filter cake is developed on the bags.
2. The facility shall retain the option to install a bag leak detector. Should this option be chosen, the bag leak detector shall be properly installed and calibrated, operated and maintained. An audible alarm shall be installed to sound should emissions above the percent saturation, determined during the calibration testing, be exceeded. The requirement to operate this emissions unit within the pressure drop range of 1 to 5 inches of water shall be vacated under this option.

C. Monitoring and/or Record keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop on a weekly basis.
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.
3. The permittee shall perform daily checks, when the emissions unit is in operation, for any visible emissions of fugitive dust from the sawdust loading operation serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

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- a. the color of the emissions;
 - b. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.
4. Notwithstanding the frequency of reporting requirements specified above, the permittee may reduce the frequency of visual observations from daily to weekly for this emissions unit if the following conditions are met:
- a. for 1 full quarter the facility's visual observations indicate no visible emissions; and
 - b. the permittee continues to comply with all the record keeping and monitoring requirements specified above.

The permittee shall revert to daily readings if any visible emissions are observed.

5. Should a bag leak detector be installed and operated as specified in B.2 the facility shall maintain records of the details of each event where the audible alarm sounds. These records shall include the date, time, duration, cause, and the facility's response to the alarm. These records will normally record instances where an emissions violation was avoided. Should a bag leak detector be installed and operated as specified in B.2 the facility shall not be required to maintain records specified in C.1 and C.2 above.

D. Reporting Requirements

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all period of time during which the pressure drop across the baghouse did not comply with the allowable range specified above. Should the facility opt to install a bag leak detector, this reporting requirement shall be vacated.
2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate 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 Director (the Ohio EPA, Northeast District Office) by January 31 and July 31 of each year and shall cover the previous 6-month periods. Should the facility opt to install a bag leak detector, this reporting requirement shall be vacated.
3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible emissions of fugitive dust were observed during the sawdust loading

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operation serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible emissions. These reports shall be submitted to the Director (the Ohio EPA, Northeast District Office) by January 31 and July 31 of each year and shall cover the previous 6-month periods.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):

- a. Emission Limitation

0% visible emissions from the baghouse stack, as a six-minute average and 10% visible fugitive emissions from sawdust loading, as a three-minute average

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Applicable Compliance Method

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1), if requested.

b. Emission Limitation

0.041 ton fugitive PE and PM-10 per year

Applicable Compliance Method

Compliance shall be determined as follows:

$$E = SU \times EF$$

Where:

E = Annual emissions, in tons

SU = Amount of sawdust unloaded per year, in tons

EF = Emission factor of 2 lbs PE/ton sawdust unloaded, taken from RACM Table 2.17-1, Fugitive Dust Emission Factors for Woodworking Operations

c. Emission Limitation

2.27 lbs PE per hour and 9.95 tons PE per year from the baghouse stack

Applicable Compliance Method

OAC rule 3745-17-03(B)(10). See section E.2.

d. Emission Limitation

1.14 lbs PM-10 per hour and 4.97 tons PM-10 per year from the baghouse stack

Applicable Compliance Method

OAC rule 3745-17-03(B)(10). See section E.2.

e. Emission Limitation

0.005 grain PE/dscf and 0.0025 grain PM-10/dscf from the baghouse stack

Applicable Compliance Method

OAC rule 3745-17-03(B)(10). See section E.2.

2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - a. Emissions testing shall be completed on this emissions unit in accordance with the emissions testing schedule established in PTI 02-20471, such that all the listed emissions units have been tested within 5 years of May 9, 2006.
 - b. The emission testing shall be conducted to demonstrate compliance with 0.005 grain PE per dscf and 0.0025 grain PM-10 per dscf and with the hourly mass emissions limitations specified in A.1.
 - c. The following test methods shall be employed to demonstrate compliance with the allowable emission rates:

Methods 1 - 5 and 201.

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - 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 Ohio EPA, Northeast District Office.
 - e. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Northeast District Office. 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, Northeast District Office's refusal to accept the results of the emission test(s).
 - f. Personnel from the Ohio EPA, Northeast District Office 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

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emissions unit and/or the performance of the control equipment.

- g. 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 Ohio EPA, Northeast District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, Northeast District Office.

Issued: To be entered upon final issuance**F. Miscellaneous Requirements**

1. The permittee shall submit updated Emissions Unit Table P1-P14 to the Director (the Ohio EPA, Northeast District Office) on an annual basis. The updated Table shall include an updated demonstration of loading to the baghouse. The updated tables shall include a complete list of emissions units for the table (including an identification of all emissions unit(s) that is/are permanently shut down and dismantled and new or replacement emissions units) as of the end of the calendar year and shall highlight or otherwise flag the changes from the previous year. This report shall be submitted to the Director (the Ohio EPA, Northeast District Office) by February 28 of each year.

After this report is submitted, the Director (the Ohio EPA, Northeast District Office) may consider the changes to determine if a modification to the issued permits is necessary. In general, a few changes which are not significant and which do not affect the operation of the control equipment will not trigger a request for an application to modify the issued permit be submitted.

2. The following terms and conditions specified above are federally enforceable: A.1, A.2, B.1, B.2, C.1, C.2, C.3, C.4, C.5, D.1, D.2, D.3, E.1, E.2, and F.1.

TABLE P1-P14 for emissions unit P014 at Plant 1

Date: 5/2006

Equipment:	CFM
	Running Total
HF41 200HP 189 BHP 727 RPM Fan inlet 41" 53000 Max CFM @ 5800v 11" SP	53000

Size of pipe in

1 Calibration Sander LSM 8 RR	10	3163
2 Calibration Sander LSM 8 RR	10	6327
3 Calibration Sander LSM 8 RR	6	7466
4 Calibration Sander LSM 8 RR	6	8604
5 Calibration Sander LSM 8 RR	7	10154

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6	Cefla Down Draft Router Table	6	11293
7	Cefla Down Draft Router Table	6	12432
8	Finish Sander LSM8 LL	8	14457
9	Finish Sander LSM8 LL	8	16481
10	Finish Sander LSM8 LL	6	17620
11	Finish Sander LSM8 LL	5	18411
12	Finish Sander LSM8 LL	5	19202
13	Finish Sander LSM8 LL	6	20341
14	Finish Sander LSM8 LL	7	21891
15	Crossgrain Sander LSM8 OSR 3	6	23029
16	Crossgrain Sander LSM8 OSR 3	6	24168
17	Crossgrain Sander LSM8 OSR 3	6	25307
18	Crossgrain Sander LSM8 OSR 3	6	26446
19	Crossgrain Sander LSM8 OSR 3	6	27585
20	Crossgrain Sander LSM8 OSR 3	7	29135
21	Fladder	8	31159
22	Fladder	8	33184
23	Brush Machine EA 4	4	33690
24	Brush Machine EA 4	4	34196
25	Brush Machine EA 4	7	35746
26	Brush Machine EA 4	6	36885
27	Brush Machine EA 4	7	38435
28	Whirlwind Sander	5	39226
29	Downdraft Table	6	40365
	Homag Line (Sanding) - Left Side	4	40871
	Homag Line (Sanding) - Left Side	4	41377
	Homag Line (Sanding) - Left Side	4	41883

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Homag Line (Sanding) - Right Side	4	42389
Homag Line (Sanding) - Right Side	4	42895
Homag Line (Sanding) - Right Side	4	43402
Homag Line (Sanding) - Right Side	4	43908
Homag Line (Sanding) - Right Side	4	44414
Homag Line (Sanding) - Left Side	4	44920
Homag Line (Sanding) - Left Side	4	45426
Koch #1	5	46217
Koch #1	5	47008
Koch #1	5	47799
Koch #1	5	48589
Koch #2	5	49380
Koch #2	5	50171
Koch #2	5	50962
Koch #2	5	51753
Koch #3	4	52259
Koch #3	4	52765
Koch #3	3	53050
Koch #3	3	53335
Koch #3	3	53619
Koch #3	3	53904

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Emissions Unit ID: **P014**

SIC CODE 2434 SCC CODE 3-07-030-98 EMISSIONS UNIT ID P014
 EMISSIONS UNIT DESCRIPTION various woodworking equipment exhausting to 53,000 cfm baghouse
 DATE INSTALLED ASAP

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	2.27 lbs/hour	9.99	2.27 lbs/hour	9.99
PM ₁₀	attainment	1.14 lbs/hour	5.02	1.14 lbs/hour	5.02
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? _____ NESHAP? _____ PSD? _____ OFFSET POLICY? _____

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?
Enter Determination. Use of a 53,000 cfm baghouse with proposed limits based upon 0.005 grain PE/dscf and 0.0025 grain PM10/dscf. NO VE from baghouse stack. 10% V fugitive E as 3-min ave from truck loading.

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 _____ NO

IDENTIFY THE AIR CONTAMINANTS: _____