



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL
PIKE COUNTY**

CERTIFIED MAIL

Street Address:

122 S. Front Street

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

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049

Application No: 06-08014

Fac ID: 0666010066

DATE: 2/16/2006

Chip and Bark Incorporated
Terry Robbins
535 Coal Dock Rd.
Waverly, OH 45690

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 Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

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

Sincerely,

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

CC: USEPA

SEDO



**Permit To Install
Terms and Conditions**

**Issue Date: 2/16/2006
Effective Date: 2/16/2006**

FINAL PERMIT TO INSTALL 06-08014

Application Number: 06-08014
Facility ID: 0666010066
Permit Fee: **\$1600**
Name of Facility: Chip and Bark Incorporated
Person to Contact: Terry Robbins
Address: 535 Coal Dock Rd.
Waverly, OH 45690

Location of proposed air contaminant source(s) [emissions unit(s)]:
**535 Coal Dock Rd.
Waverly, Ohio**

Description of proposed emissions unit(s):
Grinder screen storage piles truck dump material handling roadways.

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Part I - GENERAL TERMS AND CONDITIONS

A. 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 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

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

5. Scheduled Maintenance/Malfunction Reporting

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

6. Permit Transfers

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

7. Air Pollution Nuisance

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

8. Termination of Permit to Install

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

9. Construction of New Sources(s)

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

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

10. Public Disclosure

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

11. Applicability

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

12. Best Available Technology

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

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PE	11.67
SO2	1.65
VOC	1.95
NOx	24.26
CO	5.25

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>	<u>Applicable Emissions Limitations/Control Measures</u>
F001 - Unpaved Roadways and Parking Areas	OAC rule 3745-31-05(A)(3)	0.1 ton/year of fugitive particulate emissions (PE). Best available control measures that are sufficient to minimize or eliminate visible PE of fugitive dust (See Sections B.1. through B.6.) No visible PE from unpaved roadways and parking areas except for a period of time not to exceed three minutes during any 60-minute observation period.
	OAC rule 3745-17-07(B)(4) OAC rule 3745-17-08(B)	See Section A.2.a.

2. Additional Terms and Conditions

- 2.a This emissions unit is not located in an Appendix A area as described in OAC rule 3745-17-08; therefore, OAC rules 3745-17-07(B)(4) and 3745-17-08(B) do not apply to this fugitive emissions unit.

B. Operational Restrictions

- 1. The permittee shall employ best available control measures on all unpaved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned

Emissions Unit ID: F001

applicable requirements. In accordance with the permittee's application, the permittee has committed to treat the plant's unpaved roadways and parking areas by watering at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

2. The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for plant roadways and parking areas that are covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.
3. The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.
4. Any unpaved roadway or parking area that is subsequently paved, that takes on the characteristics of a paved area, shall be treated as such.
5. Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.
6. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the best available technology requirements of OAC rule 3745-31-05.

C. Monitoring and/or Recordkeeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform inspections of each of the roadway segments and parking areas in accordance with the following frequencies:

<u>unpaved roadways and parking areas</u>	<u>minimum inspection frequency</u>
driveway	daily
parking lot	daily
storage piles, grinder, loading area	daily

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Issue

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Emissions Unit ID: F001

2. The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.

3. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

The information required in 3.d. shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

D. Reporting Requirements

1. The permittee shall submit deviation reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.

The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the emission limitations in section A.I.1. of the terms and conditions of this permit shall be determined in accordance with the following methods:
 - a. Emission Limitation:

0.1 ton/year of fugitive PE

Applicable Compliance Method:

Compliance with fugitive PE limitation shall be determined by using the emission factor equations in Section 13.2.2 for unpaved roadways, in Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume 1 (revised 12/03). Should further updates in AP-42 occur, the most current equations shall be used. These emission limits were calculated by the permittee and based on a maximum vehicle miles traveled per year for each road segment, and a 80% control efficiency for PE.

b. Emission Limitation:

No visible PE from unpaved roadways and parking areas except for a period of time not to exceed three minutes during any 60-minute observation period.

Applicable Compliance Method:

If required, compliance with the visible PE limitation listed above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

F. Miscellaneous Requirements

None.

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>	<u>Applicable Emissions Limitations/Control Measures</u>
F002 - Wood Mulch Storage Piles, including load-in, load-out and wind erosion.	OAC rule 3745-31-05(A)(3) OAC rule 3745-17-07(B)(4) OAC rule 3745-17-08(B)	3.57 tons/year of fugitive particulate emissions (PE). No visible PE except for one minute during any 60-minute period. Best available control measures that are sufficient to minimize or eliminate visible PE of fugitive dust (See Sections B.1. through B.5.). See Section A.2.a.

2. Additional Terms and Conditions

- 2.a This emissions unit is not located in an Appendix A area as described in OAC rule 3745-17-08; therefore, OAC rules 3745-17-07(B)(4) and 3745-17-08(B) do not apply to this fugitive emissions unit.

B. Operational Restrictions

1. The permittee shall employ best available control measures on all load-in and load-out operations associated with the storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's

Emissions Unit ID: F002

application, the permittee has committed to maintain minimal drop heights for front-loaders, maintain enclosures and watering as needed to ensure compliance.

The operator shall avoid dragging any front-end loader bucket along the ground. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

2. The above-mentioned control measure(s) shall be employed for each load-in and load-out operation of each storage pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during any such operation until further observation confirms that use of the measure(s) is unnecessary.
3. The permittee shall employ best available control measures for wind erosion from the surfaces of all storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the application, the permittee has committed to perform watering as needed to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
4. The above-mentioned control measure(s) shall be employed for wind erosion from each pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measure(s) shall not be necessary for a storage pile that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements.
5. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05(A)(3).

C. Monitoring and/or Recordkeeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform inspections of each load-in operation at each storage pile in accordance with the following frequencies:

storage pile identification minimum load-in inspection frequency

all daily

2. Except as otherwise provided in this section, the permittee shall perform inspections of each load-out operation at each storage pile in accordance with the following frequencies:

storage pile identification minimum load-out inspection frequency

all daily

3. Except as otherwise provided in this section, the permittee shall perform inspections of the wind erosion from pile surfaces associated with each storage pile in accordance with the following frequencies:

storage pile identification minimum wind erosion inspection frequency

all daily

4. No inspection shall be necessary for wind erosion from the surface of a storage pile when the pile is covered with snow and/or ice and for any storage pile activity if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.

5. The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for load-in and load-out of a storage pile, and wind erosion from the surface of a storage pile. The inspections shall be performed during representative, normal storage pile operating

conditions.

6. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar quarter basis, the total number of days the control measures were implemented and, for wind erosion from pile surfaces, the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measure(s).

The information required in 6.d. shall be kept separately for (i) the load-in operations, (ii) the load-out operations, and (iii) the pile surfaces (wind erosion), and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

D. Reporting Requirements

1. The permittee shall submit deviation reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.

The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the emission limitations in Section A.I. of the terms and conditions of

this permit shall be determined in accordance with the following methods:

- a. Emissions Limitation:
3.57 tons/year of fugitive PE

Applicable Compliance Method:

Compliance with fugitive PE limitation shall be determined by using the emission factor equations in Sections 13.2.4 and 13.2.5, in Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume 1 (revised 1/95), for load-in operations, load-out operations, and wind erosion. Should further updates in AP-42 occur, the most current equations shall be used.

- b. Emission Limitation:
There shall be no visible PE except for a period of time not to exceed one minute in any 60-minute observation period.

Applicable Compliance Method:

Compliance with the visible PE limitations for the storage piles identified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

F. Miscellaneous Requirements

None.

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>	
P901 - Peterson 565 Hp Diesel Powered Wood Grinder	OAC rule 3745-31-05(A)(3)	
	OAC rule 3745-17-08(B)	
Diesel engine	OAC rule 3745-17-07(B)	OAC rule 3745-17-11(B)(5)(b)
	OAC rule 3745-31-05(A)(3)	OAC rule 3745-17-07(A)(1)

	<p style="text-align: center;"><u>Applicable Emissions Limitations/Control Measures</u></p>	
OAC rule 3745-18-06(G)		3.79 lbs/hr and 4.36 TPY of carbon monoxide (CO).
OAC rule 3745-23-06(B)	3.22 TPY of particulate emissions (PE)	The requirements of this rule also include compliance with the requirements of OAC rules
OAC rule 3745-21-08(B)	Visible emissions of fugitive dust from this emissions unit shall not exceed 10% opacity, as a three-minute average.	3745-35-07(B), 3745-17-11(B)(5)(b) and 3745-17-07(A).
	See section A.2.a.	Emissions shall not exceed 0.35 lb PE/million Btu of actual heat input. See Section A.2.b below.
	The control measure requirements established in this rule are less stringent than those established pursuant to OAC rule 3745-31-05(A)(3).	Emissions shall not exceed 0.062 lb PE/million Btu of actual heat input. See Section A.2.c below.
	The visible emission limitation specified in this rule is less stringent than the one established pursuant to OAC rule 3745-31-05(A)(3).	Visible particulate emissions from the exhaust stack shall not exceed 20% opacity as a six-minute average, except as provided by rule.
	Emissions shall not exceed:	Exempt. See Section A.2.d below.
	1.30 TPY of PE;	See Section A.2.e below.
	1.19 lbs/hr and 1.37 TPY of sulfur dioxide (SO ₂);	See Section A.2.f below.
	17.52 lbs/hr and 20.15 TPY of nitrogen oxides (NO _x);	
	1.41 lbs/hr and 1.62 TPY of volatile organic compounds (VOC); and	

2. Additional Terms and Conditions

- 2.a The permittee shall only process wood waste with a moisture content sufficient to minimize or eliminate visible emissions of fugitive dust.
- 2.b The requirement to comply with this particulate emission limitation shall terminate on the date the U.S. EPA approves the 0.062 lb/million Btu actual heat input emission limitation as a revision to the Ohio SIP for particulate matter.
- 2.c This particulate emission limitation shall be effective and federally enforceable on the date the U.S. EPA approves this particulate emission limitation as a revision to the Ohio SIP for particulate matter.
- 2.d This emissions unit is exempt from the requirements of OAC rule 3745-18-06(G) pursuant to OAC rule 3745-18-06(B).
- 2.e The permittee has satisfied the "latest available control techniques and operating practices required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this permit to install.

On February 15, 2005, OAC rule 3745-23-06 was rescinded; therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the U.S. EPA approves the revision, the requirement to satisfy the "latest available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

- 2.f The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this Permit to Install.

B. Operational Restrictions

- 1. Annual operating hours for this emissions unit shall not exceed 2,300 hours per year.
- 2. The permittee shall only burn No. 2 or diesel fuel, containing less than 0.5% sulfur by weight, in this emissions unit.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions. The presence or absence of any visible fugitive 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 location and 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 minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

2. The permittee shall maintain records of the total operating hours for each month.
3. The permittee shall maintain documentation on the sulfur content of all fuels received.
4. For each day during which the permittee burns a fuel other than sulfur No. 2 or diesel fuel, 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 semiannual written reports that (a) identify all days during

Emissions Unit ID: **P901**

which any visible fugitive particulate emissions were observed from this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions. These reports shall be submitted to the Director (the Ohio EPA Southeast District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

2. The permittee shall submit a deviation report identifying any exceedance of the annual operating hours restriction. The report shall be submitted within 30 days after the exceedance occurs.
3. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than sulfur No. 2 or diesel fuel was burned in this emissions unit. The report shall be submitted within 30 days after the exceedance occurs.

E. Testing Requirements

1. Compliance with the emission limitations specified in section A.1. of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
3.22 TPY of PE

Applicable Compliance Method:

Compliance with the annual PE limitation shall be determined using the emission factor (0.35 lb of PE/ton) in Ohio EPA's guidance document entitled "Reasonably Available Control Measures, Table 2.17.1" the 40 tons/hr maximum rated capacity of this emissions unit, 80% control efficiency, and maximum operating hours of 2,300 hours/yr.

b. Emission Limitation:

Visible emissions of fugitive dust from this emissions unit shall not exceed 10 % opacity, as a three-minute average.

Applicable Compliance Method:

If required, compliance with the above visible emission limitation shall be determined using Method 9 of 40 CFR, Part 60, Appendix A, with the modification listed in OAC rule 3745-17-03(B)(3)(a).

c. Emissions Limitation:

1.30 TPY of PE

Applicable Compliance Method:

Compliance with the tons per year emission limitation shall be demonstrated by multiplying the emission factor from AP-42, Table 3.3-1, 10/1996 (0.002 lb/Hp-hr) by the maximum rated capacity of P901 (565 Hp) and the actual annual hours of operation.

d. Emissions Limitation:

1.19 lbs/hr and 1.37 TPY of SO₂

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation shall be demonstrated by multiplying the emission factor from AP-42, Table 3.3-1, 10/1996 (0.0042 lb/HP-hr) by the maximum allowable sulfur content (0.5%) and the maximum rated capacity of P901 (565 HP). Compliance with the tons per year emission limitation is demonstrated by multiplying the actual annual hours of operation by the lbs/hr emission limitation.

If required, the permittee shall demonstrate compliance with the lbs/hr emission limitation in accordance with the methods and procedures specified in Methods 1-4 and 6 of 40 CFR Part 60, Appendix A.

- e. Emissions Limitation:
17.52 lbs/hr and 20.15 TPY of NO_x

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation shall be demonstrated by multiplying the emission factor from AP-42, Table 3.3-1, 10/1996 (0.031 lb/Hp-hr) by the maximum rated capacity of P901 (565 Hp). Compliance with the tons per year emission limitation is demonstrated by multiplying the actual annual hours of operation by the lbs/hr emission limitation.

If required, the permittee shall demonstrate compliance with the lbs/hr emission limitation in accordance with the methods and procedures specified in Methods 1-4 and 7 of 40 CFR Part 60, Appendix A.

- f. Emissions Limitation:
1.41 lbs/hr and 1.62 TPY of VOC

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation shall be demonstrated by multiplying the emission factor from AP-42, Table 3.3-1, 10/1996 (0.0025 lb/Hp-hr) by the maximum rated capacity of P901 (565 Hp). Compliance with the tons per year emission limitation is demonstrated by multiplying the actual annual hours of operation by the lbs/hr emission limitation.

If required, the permittee shall demonstrate compliance with the lbs/hr emission limitation in accordance with the methods and procedures specified in Methods 1-4 and 25A of 40 CFR Part 60, Appendix A.

- g. Emissions Limitation:
3.79 lbs/hr and 4.36 TPY of CO

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation shall be demonstrated by multiplying the emission factor from AP-42, Table 3.3-1, 10/1996 (0.0067 lb/Hp-hr) by the maximum rated capacity of P901 (565 Hp). Compliance with the tons per year emission limitation is demonstrated by multiplying the actual annual hours of operation by the lbs/hr emission limitation.

If required, the permittee shall demonstrate compliance with the lbs/hr emission

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limitation in accordance with the methods and procedures specified in Methods 1-4 and 10 of 40 CFR Part 60, Appendix A.

h. Emissions Limitation:

Emissions shall not exceed 0.35 lb PE/million Btu of actual heat input.

Applicable Compliance Method:

Compliance shall be determined based on the emission factor of 0.062 lb/million Btu specified in AP-42, Table 3.4-2, 10/1996. Note that Ohio EPA has revised the emission limitation specified in OAC rule 3745-17-11(B)(5)(b) based upon the currently applicable emission factor. The revised rule was adopted by the Director of Ohio EPA in December of 1997, and it will be submitted to the U.S. EPA as a proposed revision to the Ohio SIP for particulate matter. When the SIP revision is approved by the U.S. EPA, the 0.35 lb/million Btu actual heat input emission limitation will no longer be applicable.

i. Emissions Limitation:

Emissions shall not exceed 0.062 lb PE/million Btu of actual heat input.

Applicable Compliance Method:

Compliance shall be determined based on the emission factor of 0.062 lb/million Btu specified in AP-42, Table 3.4-2, 10/1996.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1-5 of 40 CFR Part 60, Appendix A.

j. Emissions Limitation:

Visible particulate emissions from the exhaust stack shall not exceed 20% opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with Method 9 of 40 CFR Part 60, Appendix A.

F. Miscellaneous Requirements

None.

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>	
P902 - Wood Screener with 115 Hp Diesel Engine	OAC rule 3745-31-05(A)(3)	
	OAC rule 3745-17-08(B)	
Diesel engine	OAC rule 3745-17-07(B)	OAC rule 3745-17-11(B)(5)(b)
	OAC rule 3745-31-05(A)(3)	OAC rule 3745-17-07(A)(1)

	<u>Applicable Emissions Limitations/Control Measures</u>	
OAC rule 3745-18-06(G)		0.77 lb/hr and 0.89 TPY of carbon monoxide (CO).
OAC rule 3745-23-06(B)	3.22 TPY of particulate emissions (PE)	The requirements of this rule also include compliance with the requirements of OAC rules
OAC rule 3745-21-08(B)	Visible emissions of fugitive dust from this emissions unit shall not exceed 10% opacity, as a three-minute average.	3745-35-07(B), 3745-17-11(B)(5)(b) and 3745-17-07(A).
	See section A.2.a.	Emissions shall not exceed 0.35 lb PE/million Btu of actual heat input. See Section A.2.b below.
	The control measure requirements established in this rule are less stringent than those established pursuant to OAC rule 3745-31-05(A)(3).	Emissions shall not exceed 0.062 lb PE/million Btu of actual heat input. See Section A.2.c below.
	The visible emission limitation specified in this rule is less stringent than the one established pursuant to OAC rule 3745-31-05(A)(3).	Visible particulate emissions from the exhaust stack shall not exceed 20% opacity as a six-minute average, except as provided by rule.
	Emissions shall not exceed:	Exempt. See Section A.2.d below.
	0.26 TPY of PE;	See Section A.2.e below.
	0.24 lb/hr and 0.28 TPY of sulfur dioxide (SO ₂);	See Section A.2.f below.
	3.57 lbs/hr and 4.11 TPY of nitrogen oxides (NO _x);	
	0.29 lb/hr and 0.33 TPY of volatile organic compounds (VOC); and	

2. Additional Terms and Conditions

- 2.a The permittee shall only process wood waste with a moisture content sufficient to minimize or eliminate visible emissions of fugitive dust.
- 2.b The requirement to comply with this particulate emission limitation shall terminate on the date the U.S. EPA approves the 0.062 lb/million Btu actual heat input emission limitation as a revision to the Ohio SIP for particulate matter.
- 2.c This particulate emission limitation shall be effective and federally enforceable on the date the U.S. EPA approves this particulate emission limitation as a revision to the Ohio SIP for particulate matter.
- 2.d This emissions unit is exempt from the requirements of OAC rule 3745-18-06(G) pursuant to OAC rule 3745-18-06(B).
- 2.e The permittee has satisfied the "latest available control techniques and operating practices required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this permit to install.

On February 15, 2005, OAC rule 3745-23-06 was rescinded; therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the U.S. EPA approves the revision, the requirement to satisfy the "latest available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

- 2.f The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this Permit to Install.

B. Operational Restrictions

- 1. Annual operating hours for this emissions unit shall not exceed 2,300 hours per year.
- 2. The permittee shall only burn No. 2 or diesel fuel, containing less than 0.5% sulfur by weight, in this emissions unit.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions. The presence or absence of any visible fugitive 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 location and 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 minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

2. The permittee shall maintain records of the total operating hours for each month.
3. The permittee shall maintain documentation on the sulfur content of all fuels received.
4. For each day during which the permittee burns a fuel other than sulfur No. 2 or diesel fuel, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

D. Reporting Requirements

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1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible fugitive particulate emissions were observed from this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions. These reports shall be submitted to the Director (the Ohio EPA Southeast District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. The permittee shall submit a deviation report identifying any exceedance of the annual operating hours restriction. The report shall be submitted within 30 days after the exceedance occurs.
3. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than sulfur No. 2 or diesel fuel was burned in this emissions unit. The report shall be submitted within 30 days after the exceedance occurs.

E. Testing Requirements

1. Compliance with the emission limitations specified in section A.1. of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
3.22 TPY of PE

Applicable Compliance Method:

Compliance with the annual PE limitation shall be determined using the emission factor (0.35 lb of PE/ton) in Ohio EPA's guidance document entitled "Reasonably Available Control Measures, Table 2.17.1" the 40 tons/hr maximum rated capacity of this emissions unit, 80% control efficiency, and maximum operating hours of 2,300 hours/yr.

b. Emission Limitation:

Visible emissions of fugitive dust from this emissions unit shall not exceed 10 % opacity, as a three-minute average.

Applicable Compliance Method:

If required, compliance with the above visible emission limitation shall be determined using Method 9 of 40 CFR, Part 60, Appendix A, with the modification listed in OAC rule 3745-17-03(B)(3)(a).

c. Emissions Limitation:

0.26 TPY of PE

Applicable Compliance Method:

Compliance with the tons per year emission limitation shall be demonstrated by multiplying the emission factor from AP-42, Table 3.3-1, 10/1996 (0.002 lb/Hp-hr) by the maximum rated capacity of P902 (115 Hp) and the actual annual hours of operation.

If required, the permittee shall demonstrate compliance with the lbs/hr emission limitation in accordance with the methods and procedures specified in Methods 1-4 and 5 of 40 CFR Part 60, Appendix A.

d. Emissions Limitation:

0.24 lb/hr and 0.28 TPY of SO₂

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation shall be demonstrated by multiplying the emission factor from AP-42, Table 3.3-1, 10/1996 (0.0042 lb/HP-hr) by the maximum allowable sulfur content (0.5%) and the maximum rated capacity of P902 (115 HP). Compliance with the tons per year emission limitation is demonstrated by multiplying the actual annual hours of operation by the lbs/hr emission limitation.

If required, the permittee shall demonstrate compliance with the lbs/hr emission limitation in accordance with the methods and procedures specified in Methods 1-4 and 6 of 40 CFR Part 60, Appendix A.

- e. Emissions Limitation:
3.57 lbs/hr and 4.11 TPY of NO_x

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation shall be demonstrated by multiplying the emission factor from AP-42, Table 3.3-1, 10/1996 (0.031 lb/Hp-hr) by the maximum rated capacity of P902 (115 Hp). Compliance with the tons per year emission limitation is demonstrated by multiplying the actual annual hours of operation by the lbs/hr emission limitation.

If required, the permittee shall demonstrate compliance with the lbs/hr emission limitation in accordance with the methods and procedures specified in Methods 1-4 and 7 of 40 CFR Part 60, Appendix A.

- f. Emissions Limitation:
0.29 lb/hr and 0.33 TPY of VOC

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation shall be demonstrated by multiplying the emission factor from AP-42, Table 3.3-1, 10/1996 (0.0025 lb/Hp-hr) by the maximum rated capacity of P902 (115 Hp). Compliance with the tons per year emission limitation is demonstrated by multiplying the actual annual hours of operation by the lbs/hr emission limitation.

If required, the permittee shall demonstrate compliance with the lbs/hr emission limitation in accordance with the methods and procedures specified in Methods 1-4 and 25A of 40 CFR Part 60, Appendix A.

- g. Emissions Limitation:
0.77 lb/hr and 0.89 TPY of CO

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation shall be demonstrated by multiplying the emission factor from AP-42, Table 3.3-1, 10/1996 (0.0067 lb/Hp-hr) by the maximum rated capacity of P902 (115 Hp). Compliance with the

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tons per year emission limitation is demonstrated by multiplying the actual annual hours of operation by the lbs/hr emission limitation.

If required, the permittee shall demonstrate compliance with the lbs/hr emission limitation in accordance with the methods and procedures specified in Methods 1-4 and 10 of 40 CFR Part 60, Appendix A.

h. Emissions Limitation:

Emissions shall not exceed 0.35 lb PE/million Btu of actual heat input.

Applicable Compliance Method:

Compliance shall be determined based on the emission factor of 0.062 lb/million Btu specified in AP-42, Table 3.4-2, 10/1996. Note that Ohio EPA has revised the emission limitation specified in OAC rule 3745-17-11(B)(5)(b) based upon the currently applicable emission factor. The revised rule was adopted by the Director of Ohio EPA in December of 1997, and it will be submitted to the U.S. EPA as a proposed revision to the Ohio SIP for particulate matter. When the SIP revision is approved by the U.S. EPA, the 0.35 lb/million Btu actual heat input emission limitation will no longer be applicable.

i. Emissions Limitation:

Emissions shall not exceed 0.062 lb PE/million Btu of actual heat input.

Applicable Compliance Method:

Compliance shall be determined based on the emission factor of 0.062 lb/million Btu specified in AP-42, Table 3.4-2, 10/1996.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1-5 of 40 CFR Part 60, Appendix A.

j. Emissions Limitation:

Visible particulate emissions from the exhaust stack shall not exceed 20% opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with Method 9 of 40 CFR Part 60, Appendix A.

F. Miscellaneous Requirements

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None.