



State of Ohio Environmental Protection Agency

Street Address:

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

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

Mailing Address:

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

**RE: FINAL PERMIT TO INSTALL
STARK COUNTY
Application No: 15-01496**

CERTIFIED MAIL

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

DATE: 4/11/2002

American Landfill, Inc.
Mohammed Ali
7916 Chapel Street S.E.
Waynesburg, OH 44688

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
236 East Town Street, Room 300
Columbus, Ohio 43215

Very truly yours,

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

CC: USEPA

Canton LAA



FINAL PERMIT TO INSTALL 15-01496

Application Number: 15-01496

APS Premise Number: 1576181541

Permit Fee: **\$100**

Name of Facility: American Landfill, Inc.

Person to Contact: Mohammed Ali

Address: 7916 Chapel Street S.E.
Waynesburg, OH 44688

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

**7916 Chapel Street S.E.
Waynesburg, Ohio**

Description of proposed emissions unit(s):

Tire shredder to be permitted as a mobile emissions unit powered with a diesel engine with a spray chamber to control particulate emissions generated from the shredding of the tires using blades.

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Part I - GENERAL TERMS AND CONDITIONS

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

1. Monitoring and Related Recordkeeping and Reporting Requirements

- a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
 - i. The date, place (as defined in the permit), and time of sampling or measurements.
 - ii. The date(s) analyses were performed.
 - iii. The company or entity that performed the analyses.
 - iv. The analytical techniques or methods used.
 - v. The results of such analyses.
 - vi. The operating conditions existing at the time of sampling or measurement.
- b. Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.
- c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
 - i. Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
 - ii. Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to the appropriate Ohio EPA District Office or local air agency. The written reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. See B.10 below if no deviations occurred during the quarter.

- iii. Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted to the appropriate Ohio EPA District Office or local air agency every six months, i.e., by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.
- iv. Each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.

2. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction, i.e., upset, of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emission unit(s) that is (are) served by such control system(s).

3. Risk Management Plans

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.

4. Title IV Provisions

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

5. Severability Clause

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

6. General Requirements

- a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.
- b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c. This permit may be modified, reopened, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d. This permit does not convey any property rights of any sort, or any exclusive privilege.
- e. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

7. Fees

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

8. Federal and State Enforceability

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

9. Compliance Requirements

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

- b. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
 - i. At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
 - ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with ORC section 3704.08.
 - iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
 - iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
 - i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
 - ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

10. Permit To Operate Application

- a. If the permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77, the permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).
- b. If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35, the source(s) identified in this Permit To Install is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. Permission to operate is

granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within thirty (30) days after commencing operation of the source(s) covered by this permit.

11. Best Available Technology

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

12. Air Pollution Nuisance

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.

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

1. Compliance Requirements

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

2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

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

3. Permit Transfers

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

4. 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.

5. 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.

6. Public Disclosure

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

7. Applicability

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

8. Construction Compliance Certification

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.

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

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

C. Permit To Install Summary of Allowable Emissions

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

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

<u>Pollutant</u>	<u>Tons Per Year</u>
NOx	24.5
CO	8.27
OC	1.95
PM10	2.74
SO2	1.62

Part II - FACILITY SPECIFIC TERMS AND CONDITIONS

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

None

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

None

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

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P901 - Tire shredder with number two oil-fired internal combustion (IC) engine of maximum capacity 1,675,200 BTU/hr and with tire shredding blades with a spray chamber to control particulate emissions; material (tire) handling operations associated with the operation of the tire shredder; mobile emissions unit.	OAC rule 3745-31-05(A)(3)	<p>The Nitrogen Oxide (NOx) emissions shall not exceed 16.3 lbs/hr and 24.5 Tons/yr and see section A.I.2.a. below.</p> <p>The Carbon Monoxide (CO) emissions shall not exceed 5.51 lbs/hr and 8.27 Tons/yr and see section A.I.2.a. below.</p> <p>The Organic Compound (OC) emissions shall not exceed 1.30 lbs/hr and 1.95 Tons /yr and see section A.I.2.a. below.</p> <p>The PM10 emissions shall not exceed 1.16 lbs/hr from the operation of the IC engine.</p> <p>The PM10 emissions shall not exceed 1.74 tons/yr from the operation of the IC engine, 1.00 ton/yr from the shredding of tires for a total of 2.74 Tons/yr and see section A.I.2.a. below.</p> <p>The Sulfur Dioxide emissions shall not exceed 1.08 lbs/hr and 1.62 Tons/yr and see section A.I.2.a. below.</p> <p>Fugitive Dust Visible Particulate Emissions Limitations - See section A.I.2.b and A.I.2.c below.</p>

	Best Available Technology (BAT) is compliance with the above emissions limitations, compliance with the Additional Terms and Conditions below, and compliance with the Operational Restrictions (OR) below.
OAC rule 3745-17-07(A)(1)	See section 2.d below.
OAC rule 3745-17-07(B)(1) and (6)	See section 2.e below.
OAC rule 3745-18-06(E)(1)	See section 2.e below.
OAC rule 3745-23-06(B)	The use of BAT will demonstrate compliance with this rule.

2. Additional Terms and Conditions

- 2.a** The tons per year emission limitations for NO_x, CO, OC, SO₂ and PM₁₀ are for a calendar year period, January 1 to December 31, except for the initial partial calendar year of operation of this emissions unit. For the initial partial calendar year of operation, the emissions limitation will be the ton per year emissions limitation prorated over the partial year of operation. For example, if the emissions unit is first operated on July 1 (the 181st day of the year), the emissions limitation for the initial partial calendar year of operation will be the difference of 365 and 180 days divided by 365 days times the tons per year emission limitation.
- 2.b** There shall be no visible fugitive dust particulate emissions greater than 5% opacity from the operation of the tire shredder blades.
- 2.c** There shall be no visible particulate emissions from any tire handling operations directly associated with the tire shredder except for a period of time not to exceed 6 minutes during any sixty minute observation period.
- 2.d** Visible particulate emissions from the stack of the shredder engine shall not exceed 20% opacity, as a six minute average, except as specified in this rule.
- 2.e** The emission limit based on this applicable rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).
- 2.f** This facility shall unload all delivery vehicles onto a levels surface and shall minimize the free-fall distance of materials from the vehicles when unloading so as to minimize or eliminate visible emissions of fugitive dust.

Any dusty materials shall be watered prior to or during dumping operations.

- 2.g Vehicle loads of tires which have a potential for emissions of fugitive dust shall be closed, covered, or tarped coming to or leaving the facility in order to minimize or eliminate visible emissions of fugitive dust.
- 2.h The spray chamber associated with the tire shredder shall be maintained and operated at all times during tire shredding operations, weather permitting.
- 2.i The shredder shall only be used for shredding tires. The tire shredder shall only be operated to create tire chips.
- 2.j The shredder engine shall be maintained in accord with the shredder engine manufacturer's recommended maintenance procedures.

II. Operational Restrictions

1. The permittee shall only burn number two fuel oil containing less than 0.5% sulfur by weight in this emissions unit.
2. The maximum annual operating hours for this emissions unit shall not exceed 3,000 hours per calendar year (January 1st to December 31st) except as follows. During the initial partial calendar year of operation, the hours of operation shall be limited to 3000 hours prorated over the partial year of operation. For example, if the emissions unit is first operated on July 1 (the 181st day of the year), the hours of operation limitation for the initial partial calendar year of operation will be the difference of 365 and 180 days divided by 365 days times 3000 hours.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records which demonstrate the sulfur content of the number two fuel oil received for use in this emissions unit.
2. The permittee shall maintain daily records of the time in hours and minutes that this emissions unit is operated on each day that it is operated.
3. The permittee shall maintain records of the maintenance performed on the shredder engine. The permittee shall maintain copies of the shredder engine manufacturer's recommended maintenance procedures for the shredder engine.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify all exceedances of the annual operating hours limitation and, for the initial partial calendar year of operation, all exceedances of the emissions limitation for the initial partial calendar year of operation operating hours limitation. These reports are due by the date described in Part 1 - General Terms and

Conditions of this permit under section (B)(2), except that the quarterly reports due by January 31, April 30, and July 31 of each year do not have to be submitted if there are no deviations to report.

V. 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

16.3 lbs NOx/hr

Applicable Compliance Method

The NOx emission factor from the PTI application taken from Table 3.3-1 of AP-42 dated 10/96 is 0.031 pounds of NOx emitted per horse power per hour. The power output of the number two oil fired IC engine is 525 HP per the PTI application.

$$\text{NOx emissions} = (0.031 \text{ lb NOx/HP} \cdot \text{hr}) \times (525 \text{ HP})$$

$$\text{NOx emissions} = 16.3 \text{ lbs NOx/hr}$$

Because the calculated NOx emissions are less than or equal to the hourly allowable NOx emissions, compliance is shown.

If required, a stack test utilizing Method 7 of 40 CFR Part 60, Appendix A, may be requested to confirm the emission rate.

- b. Emission Limitation

24.5 tons NOx/year and see section A.I.2.a. below.

Applicable Compliance Method

The NOx emission factor from the PTI application taken from Table 3.3-1 of AP-42 dated 10/96 is 0.031 pounds of NOx emitted per horse power per hour. The power output of the number two oil fired IC engine is 525 HP per the PTI application. This PTI limits the operation of the tire shredder to 3,000 or less hours per year.

$$\text{Calculated NOx emissions} = (525 \text{ HP}) \times (0.031 \text{ Lb NOx/hr}) \times (1 \text{ ton}/2,000 \text{ lbs}) \times (3,000 \text{ hours/year})$$

$$\text{Calculated NOx emissions} = 24.5 \text{ tons NOx /year}$$

Because the calculated NOx emissions are less than or equal to the annual allowable NOx emissions, compliance is shown.

c. Emission Limitation

3.51 lbs CO/hr

Applicable Compliance Method

The CO emission factor from the PTI application taken from Table 3.3-1 of AP-42 dated 10/96 is 0.00668 pounds of CO emitted per horse power per hour. The power output of the number two oil fired IC engine is 525 HP per the PTI application.

$$\text{CO emissions} = (0.00668 \text{ lb CO/HP} \cdot \text{hr}) \times (525 \text{ HP})$$

$$\text{CO emissions} = 3.51 \text{ lbs CO/hr}$$

Because the calculated CO emissions are less than or equal to the hourly allowable CO emissions, compliance is shown.

If required, a stack test utilizing Method 10 of 40 CFR Part 60, Appendix A, may be requested to confirm the emission rate.

d. Emission Limitation

5.26 tons CO/year and see Section A.I.2.a. below.

Applicable Compliance Method

The CO emission factor from the PTI application taken from Table 3.3-1 of AP-42 dated 10/96 is 0.00668 pounds of CO emitted per horse power per hour. The power output of the number two oil fired IC engine is 525 HP per the PTI application. This PTI limits the operation of the tire shredder to 3,000 or less hours per year.

$$\text{Calculated CO emissions} = (525 \text{ HP}) \times (0.00668 \text{ Lb CO/hr}) \times (1 \text{ ton}/2,000 \text{ lbs}) \times (3,000 \text{ hours/year})$$

$$\text{Calculated CO emissions} = 5.26 \text{ tons CO /year}$$

Because the calculated CO emissions are less than or equal to the annual allowable CO emissions, compliance is shown.

e. Emission Limitation

1.30 lbs OC/hr

Applicable Compliance Method

The OC emission factor from the PTI application taken from Table 3.3-1 of AP-42 dated 10/96 is 0.00247 pounds of OC emitted per horse power per hour. The power output of the number two oil fired IC engine is 525 HP per the PTI application.

$$\text{OC emissions} = (0.00247 \text{ lb OC/HP} \cdot \text{hr}) \times (525 \text{ HP})$$

$$\text{OC emissions} = 1.30 \text{ lbs OC/hr}$$

Because the calculated OC emissions are less than or equal to the hourly allowable OC emissions, compliance is shown.

f. Emission Limitation

1.95 tons OC/year and see Section A.I.2.a. below.

Applicable Compliance Method

The OC emission factor from the PTI application taken from Table 3.3-1 of AP-42 dated 10/96 is 0.00247 pounds of OC emitted per horse power per hour. The power output of the number two oil fired IC engine is 525 HP per the PTI application. This PTI limits the operation of the tire shredder to 3,000 or less hours per year.

$$\text{Calculated OC emissions} = (525 \text{ HP}) \times (0.00247 \text{ Lb OC/hr}) \times (1 \text{ ton}/2,000 \text{ lbs}) \times (3,000 \text{ hours/year})$$

$$\text{Calculated OC emissions} = 1.95 \text{ tons OC /year}$$

Because the calculated OC emissions are less than or equal to the annual allowable OC emissions, compliance is shown.

g. Emission Limitation

1.16 lbs PM10/hr from the operation of the IC engine

Applicable Compliance Method

The PM10 emission factor from the PTI application taken from Table 3.3-1 of AP-42 dated 10/96 is 0.00220 pounds of PM10 emitted per horse power per hour. The power output of the number two oil fired IC engine is 525 HP per the PTI application.

$$\text{PM10 emissions} = (0.00220 \text{ lb PM10/HP} \cdot \text{hr}) \times (525 \text{ HP})$$

PM10 emissions = 1.16 lbs PM10/hr

Because the calculated PM10 emissions are less than or equal to the hourly allowable PM10 emissions, compliance is shown.

h. Emission Limitation

1.74 tons PM10/year from the operation of the IC engine, 1.00 tons PM10/year from the shredding of tires for a total of 2.74 tons PM10/year, and see Section A.I.2.a. below.

Applicable Compliance Method

The PM10 emission factor from the PTI application taken from Table 3.3-1 of AP-42 dated 10/96 is 0.00220 pounds of PM10 emitted per horse power per hour. The power output of the number two oil fired IC engine is 525 HP per the PTI application. This PTI limits the operation of the tire shredder to 3,000 or less hours per year.

Calculated PM10 emissions = (525 HP) X (0.00220 Lb PM10/hr) X (1 ton/2,000 lbs) X (3,000 hours/year)

Calculated PM10 emissions = 1.74 tons PM10 /year

Because the calculated PM10 emissions are less than or equal to the annual allowable PM10 emissions, compliance is shown.

i. Emission Limitation

1.08 lbs SO2/hr

Applicable Compliance Method

The SO2 emission factor from the PTI application taken from Table 3.3-1 of AP-42 dated 10/96 is 0.00205 pounds of SO2 emitted per horse power per hour. The power output of the number two oil fired IC engine is 525 HP per the PTI application.

SO2 emissions = (0.00205 lb SO2/HP - hr) X (525 HP)

SO2 emissions = 1.08 lbs SO2/hr

Because the calculated SO2 emissions are less than or equal to the hourly allowable SO2 emissions, compliance is shown.

j. Emission Limitation

1.62 tons SO₂/year and see Section A.I.2.a. below.

Applicable Compliance Method

The SO₂ emission factor from the PTI application taken from Table 3.3-1 of AP-42 dated 10/96 is 0.00205 pounds of SO₂ emitted per horse power per hour. The power output of the number two oil fired IC engine is 525 HP per the PTI application. This PTI limits the operation of the tire shredder to 3,000 or less hours per year.

Calculated SO₂ emissions = (525 HP) X (0.00205 Lb SO₂/hr) X (1 ton/2,000 lbs) X
(3,000 hours/year)

Calculated SO₂ emissions = 1.62 tons SO₂ /year

Because the calculated SO₂ emissions are less than or equal to the annual allowable SO₂ emissions, compliance is shown.

k. Emission Limitation

There shall be no visible fugitive dust particulate emissions greater than 5% opacity from the operation of the tire shredder blades.

Applicable Compliance Method

Method 9 of 40 CFR Part 60, Appendix A

l. Emission Limitation

There shall be no visible particulate emissions from any tire handling operations directly associated with the tire shredder except for a period of time not to exceed 6 minutes during any sixty minute observation period.

Applicable Compliance Method

Method 22 of 40 CFR Part 60, Appendix A

m. Emission Limitation

Visible particulate emissions from the stack of the shredder engine shall not exceed 20% opacity, as a six minute average, except as specified in this rule.

Applicable Compliance Method

Method 9 of 40 CFR Part 60, Appendix A

2. Compliance with the operational limitations in section A.II of these special terms and conditions shall be determined in accordance with the following methods:

- a. **Operational Limitation:**

The permittee shall only burn number two fuel oil containing less than 0.5% sulfur by weight in this emissions unit.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the monitoring and/or recordkeeping requirements specified in section A.III.1.

- b. The maximum annual operating hours for this emissions unit shall not exceed 3,000 hours per calendar year (January 1st to December 31st) except as follows. During the initial partial calendar year of operation, the hours of operation shall be limited to 3000 hours prorated over the partial year of operation. For example, if the emissions unit is first operated on July 1 (the 181st day of the year), the hours of operation limitation for the initial partial calendar year of operation will be the difference of 365 and 180 days divided by 365 days times 3000 hours.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the monitoring and/or recordkeeping requirements specified in section A.III.2.

VI. Miscellaneous Requirements

1. The vehicle traffic associated with the operation of this tire shredder is subject to the requirements of the facility's previously issued PTI, PTI 15-303 issued 1/29/86, and the facility's final Title V permit issued 03/30/01.

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P901 - Tire shredder with number two oil-fired IC engine of maximum capacity 1,675,200 BTU/hr and with tire shredding blades with a spray chamber to control particulate emissions; material (tire) handling operations associated with the operation of the tire shredder; mobile emissions unit.	OAC rule 3745-15-07	The permittee shall operate this emissions unit in such a manner that it does not become offensive or objectionable to the public and is not in violation of this rule.

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None