

**CONSTRUCTION PERMIT
OFFICE OF AIR MANAGEMENT**

Mulzer Crushed Stone, Inc.

is hereby authorized to construct

a portable limestone secondary crushing plant with a maximum production capacity of 390 tons per hour. This plant consists of loading and unloading, crushing, screening, conveying, storage, and transporting operations. This plant utilizes the following equipment:

- (a) one (1) feed hopper;
- (b) one (1) feed belt;
- (c) one (1) feeder (ID# AK 1403) with a maximum rated capacity of 390 tons per hour;
- (d) one (1) secondary crusher (ID# AI 1402) with a maximum rated capacity of 390 tons per hour;
- (e) one (1) surge bin;
- (f) one (1) 8' x 20' screen (ID# AK 1404) with a maximum rated capacity of 390 tons per hour;
- (g) two (2) stackers (ID#s AJ 1430 and AJ 1433);
- (h) three (3) conveyors (ID#s AJ 1420 through AJ 1422); and
- (i) one (1) no.2 fuel oil-fired intermittent electric generator (ID# AG 1402) with a maximum heat input capacity of 7.4 million British Thermal Units per hour (MMBtu/hr).

This permit is issued to the above mentioned company (herein known as the Permittee) under the provisions of 326 IAC 2-1 and 40 CFR 52.780, with conditions listed on the attached pages.

Construction Permit No.: CP-025-9062-00002	
Issued by: Paul Dubenetzky, Branch Chief Office of Air Management	Issuance Date:

Construction Conditions

General Construction Conditions

1. That the data and information supplied with the application shall be considered part of this permit. Prior to any proposed change in construction which may affect allowable emissions, the change must be approved by the Office of Air Management (OAM).
2. That this permit to construct does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

Effective Date of the Permit

3. That pursuant to IC 13-15-5-3, this permit becomes effective upon its issuance.
4. That pursuant to 326 IAC 2-1-9(b)(Revocation of Permits), the Commissioner may revoke this permit if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.
5. That notwithstanding Construction Condition No. 6, all requirements and conditions of this construction permit shall remain in effect unless modified in a manner consistent with procedures established for modifications of construction permits pursuant to 326 IAC 2 (Permit Review Rules).

First Time Operation Permit

6. That this document shall also become a first-time operation permit pursuant to 326 IAC 2-1-4 (Operating Permits) when, prior to start of operation, the following requirements are met:
 - (a) The attached affidavit of construction shall be submitted to the Office of Air Management (OAM), Permit Administration & Development Section, verifying that the facilities were constructed as proposed in the application. The facilities covered in the Construction Permit may begin operating on the date the Affidavit of Construction is postmarked or hand delivered to IDEM.
 - (b) If construction is completed in phases; i.e., the entire construction is not done continuously, a separate affidavit must be submitted for each phase of construction. Any permit conditions associated with operation start up dates such as stack testing for New Source Performance Standards (NSPS) shall be applicable to each individual phase.
 - (c) Permittee shall receive an Operation Permit Validation Letter from the Chief of the Permit Administration & Development Section and attach it to this document.
 - (d) The operation permit will be subject to annual operating permit fees pursuant to 326 IAC 2-7-19 (Fees) whenever this portable secondary crushing plant operates as part of a Part 70 source. Only after relocation to a nonPart 70 source shall the operation permit be subject to annual operating fees pursuant to 326 IAC 2-1-7.1 (Fees).
 - (e) The Permittee has submitted its Part 70 operating permit application on December 11, 1996 for the existing source (Cape Sandy Quarry) in which this portable secondary crushing plant will be initially located. The equipment being reviewed under this permit

shall be incorporated in the submitted Part 70 permit application.

NSPS Reporting Requirement

7. That pursuant to the New Source Performance Standard 326 IAC 12 and 40 CFR 60.670 through 60.676, Subpart OOO, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:
- (a) Commencement of construction date (no later than 30 days after such date);
 - (b) Anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
 - (c) Actual start-up date (within 15 days after such date); and
 - (d) Date of performance testing (at least 30 days prior to such date), when required by a condition elsewhere in this permit.

Reports are to be sent to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, IN 46206-6015

The application and enforcement of these standards have been delegated to the IDEM-OAM. The requirements of 40 CFR Part 60 are also federally enforceable.

8. That when the facility is constructed and placed into operation the following operation conditions shall be met:

Operation Conditions

General Operation Conditions

1. That the data and information supplied in the application shall be considered part of this permit. Prior to any change in the operation which may result in an increase in allowable emissions exceeding those specified in 326 IAC 2-1-1 (Construction and Operating Permit Requirements), the change must be approved by the Office of Air Management (OAM).
2. That the Permittee shall comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder.

Preventive Maintenance Plan

3. That pursuant to 326 IAC 1-6-3 (Preventive Maintenance Plans), the Permittee shall prepare and maintain a preventive maintenance plan, including the following information:
- (a) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (b) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and

- (c) Identification of the replacement parts which will be maintained in inventory for quick replacement.

The preventive maintenance plan shall be submitted to IDEM, OAM upon request and shall be subject to review and approval.

Transfer of Permit

4. That pursuant to 326 IAC 2-1-6 (Transfer of Permits):

- (a) In the event that ownership of this portable secondary crushing plant is changed, the Permittee shall notify OAM, Permit Branch, within thirty (30) days of the change. Notification shall include the date or proposed date of said change.
- (b) The written notification shall be sufficient to transfer the permit from the current owner to the new owner.
- (c) The OAM shall reserve the right to issue a new permit.

Permit Revocation

5. That pursuant to 326 IAC 2-1-9(a)(Revocation of Permits), this permit to construct and operate may be revoked for any of the following causes:

- (a) Violation of any conditions of this permit.
- (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.
- (c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this permit shall not require revocation of this permit.
- (d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.
- (e) For any cause which establishes in the judgment of IDEM, the fact that continuance of this permit is not consistent with purposes of 326 IAC 2-1 (Permit Review Rules).

Availability of Permit

6. That pursuant to 326 IAC 2-1-3(l), the Permittee shall maintain the applicable permit on the premises of this source and shall make this permit available for inspection by the IDEM or other public official having jurisdiction.

Malfunction Condition

7. That pursuant to 326 IAC 1-6-2 (Records; Notice of Malfunction):

- (a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Management (OAM) or appointed representative upon request.
- (b) When a malfunction of any facility or emission control equipment occurs which lasts more

than one (1) hour, said condition shall be reported to OAM, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.

- (c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).
- (d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

PSD Major Source, Minor Modification Limit

8. That the no. 2 distillate fuel oil usage of this portable secondary crushing plant, specifically the intermittent electric generator (ID# AG-1402), shall be limited to 126,300 gallons per 365 consecutive day period, rolled on a daily basis. This fuel usage limitation is equivalent to NO_x emissions of 39 tons per 365 consecutive day period, rolled on a daily basis. Therefore, the Prevention of Significant Deterioration (PSD) rules, 326 IAC 2-2 and 40 CFR 52.21, shall not apply.

During the first 365 consecutive day period of operation, the no. 2 distillate fuel oil usage shall be limited to 126,300 gallons.

Annual Emission Reporting

9. That pursuant to 326 IAC 2-6 (Emission Reporting), the Permittee must annually submit an emission statement for the source (i.e., Cape Sandy Quarry). This statement must be received by July 1 of each year and must comply with the minimum requirements specified in 326 IAC 2-6-4. The annual statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

The annual emission statement covers the twelve (12) consecutive month time period starting January 1 and ending December 31.

Opacity Limitations

10. That pursuant to 326 IAC 5-1-2 (Visible Emission Limitations) except as provided in 326 IAC 5-1-3 (Temporary Exemptions), the visible emissions shall meet the following:
- (a) visible emissions shall not exceed an average of 30% opacity in 24 consecutive readings.
 - (b) visible emissions shall not exceed 60% opacity for more than a cumulative total of 15 minutes (60 readings) in a 6-hour period.

Fugitive Dust Emissions

11. That pursuant to 326 IAC 6-4 (Fugitive Dust Emissions), the Permittee shall be in violation of 326 IAC 6-4 (Fugitive Dust Emissions) if any of the criteria specified in 326 IAC 6-4-2(1) through (4)

are violated. Observations of visible emissions crossing the property line of the source at or near ground level must be made by a qualified representative of IDEM. [326 IAC 6-4-5(c)].

Fugitive Dust Emissions

12. That pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emissions Limitations), fugitive particulate matter emissions shall be controlled according to the plan submitted on September 30, 1997. This portable secondary crushing plant shall comply with all dust abatement measures contained therein, which includes, but not limited to, applying water on storage piles, unpaved roadways, material loading and unloading operations on an "as-needed" basis such that the following visible emission conditions are met:

- (a) Visible emissions from storage piles shall not exceed twenty percent (20%) in twenty four (24) consecutive readings in a six (6) minute period. This limitation may not apply during periods when application of control measures are ineffective or unreasonable due to sustained very high wind speeds. The opacity shall be determined using 40 CFR 60, Appendix A, Method 9, except that the opacity shall be observed at approximately four (4) feet from the surface at the point of maximum opacity. The observer shall stand at least fifteen (15) feet, but no more than one-fourth (1/4) mile, from the plume and at approximately right angles to the plume.
- (b) Visible emissions from unpaved roadways shall not exceed an average instantaneous opacity of twenty percent (20%). Average instantaneous opacity shall be the average of twelve (12) instantaneous opacity readings, taken for four (4) vehicle passes, consisting of three (3) opacity readings for each vehicle pass. The three (3) opacity readings for each vehicle pass shall be taken as follows:
 - (i) The first will be taken at the time of emission generation.
 - (ii) The second will be taken five (5) seconds later.
 - (iii) The third will be taken five (5) seconds later or ten (10) seconds after the first.

The three (3) readings shall be taken at the point of maximum opacity. The observer shall stand at least fifteen (15) feet, but no more than one-fourth (1/4) mile, from the plume and at approximately right angles to the plume. Each reading shall be taken approximately four (4) feet above the surface of the unpaved roadway.

- (c) Visible emissions from the material loading and unloading operation shall not exceed an average instantaneous opacity of twenty percent (20%). The average instantaneous opacity shall be the average of three (3) opacity readings taken five (5) seconds, ten (10) seconds, and fifteen (15) seconds after the end of one (1) material loading or unloading operation. The three (3) readings shall be taken at the point of maximum opacity. The observer shall stand at least fifteen (15) feet, but no more than one-fourth (1/4) mile, from the plume and at approximately right angles to the plume.

Compliance with these opacity limitations shall also meet the requirements of 326 IAC 5-

1

NSPS

13. That this portable secondary crushing plant shall comply with the New Source Performance Standards, 326 IAC 12 and 40 CFR 60.670 through 60.676, Subpart OOO (Standards of

Performance for Nonmetallic Mineral Processing Plants). This rule requires the particulate emissions from:

- (a) the crushing operations to be limited to 15 percent opacity or less, and
- (b) the screening and conveying operations to be limited to 10 percent or less.

Compliance with these opacity limits shall also satisfy the requirements of 326 IAC 5-1.

NSPS Testing Requirement

14. That opacity tests to determine compliance with the NSPS, Subpart OOO shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up pursuant to 40 CFR 60.675(c) and 40 CFR 60.11. These tests shall be performed according to 326 IAC 3-2.1 (Source Sampling Procedures) using the methods specified in the rule or as approved by the Commissioner.

- (a) A test protocol shall be submitted to the OAM, Compliance Data Section, 35 days in advance of the test.
- (b) The Compliance Data Section shall be notified of the actual test date at least two (2) weeks prior to the date.
- (c) All test reports must be received by the Compliance Data Section within 45 days of completion of the testing.
- (d) Whenever the results of the test performed exceed the level specified in this permit, appropriate corrective actions shall be implemented within thirty (30) days of receipt of the test results. These actions shall be implemented immediately unless notified by OAM that they are acceptable. The Permittee shall minimize emissions while the corrective actions are being implemented.
- (e) A second test to demonstrate compliance shall be performed within 120 days. Failure of the second test to demonstrate compliance may be grounds for immediate revocation of this permit to operate the affected facility.

Nonfugitive Emissions

15. That nonfugitive emissions from crushing, screening, and conveying operations shall be controlled by utilizing a continuous wet suppression system in order to meet the requirements of operation condition no. 13

16. Record Keeping Requirements

That the Permittee shall maintain records at the source of the daily no.2 distillate fuel oil usage in order to determine compliance with operation condition no. 8.

Reporting Requirements

17. (a) That a quarterly summary shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

within thirty (30) calendar days after the end of the quarter being reported using the format attached. These reports shall include the the following:

- (i) For quarterly reports for the first 365 consecutive day period after the postmarked submission date of the Affidavit of Construction:
 - (A) Daily no. 2 distillate fuel oil usage, and
 - (B) Daily calculation of amount of no. 2 distillate fuel oil remaining for the rest of the 365 consecutive day period.
- (ii) For succeeding quarterly reports:
 - (A) Daily no. 2 distillate fuel oil usage, and
 - (B) Total no. 2 distillate oil fuel usage for the previous 365 consecutive day period.
- (b) Unless otherwise specified in this permit, any notice, report, or other submissions required by this permit shall be timely if:
 - (i) Postmarked on or before the date it is due; or
 - (ii) Delivered by any other method if it is received and stamped by IDEM, OAM, on or before the date it is due.
- (c) All instances of deviations from any requirements of this permit must be clearly identified in such reports.
- (d) Any corrective actions taken as a result of an exceedance of a limit, an excursion from the parametric values, or a malfunction that may have caused excess emissions must be clearly identified in such reports.
- (e) The first report shall cover the period commencing the postmarked submission date of the Affidavit of Construction.

Portable Source

- 18. That this portable secondary crushing plant has been approved for operation in all areas of the State except any county classified as severe nonattainment or extreme nonattainment for TSP (specifically Lake and Porter counties), based on the requirements of Prevention of Significant Deterioration in 326 IAC 2-2 and Emission Offset requirements in 326 IAC 2-3 . However, a 30 day advance notice of relocation must be given to the Office of Air Management and a new "Relocation Site Approval" letter must be obtained before relocating.
- 19. That a valid operation permit consists of this document and an "Initial Site Approval" letter or any subsequent "Relocation Site Approval" letter specifying the current location.
- 20. That if this portable plant is planning to operate in one of the following areas, it is the responsibility of the owner/operator of the portable plant to contact the corresponding air pollution local agency for possible additional permitting requirements;

- (a) Madison County -- Anderson Office of Air Management (AOAM) at 317/646-9835,
- (b) Evansville and four (4) miles outside of the city limit -- Evansville Environmental Protection Agency (EEPA) at 812/426-5597,
- (c) City of Gary -- Division of Air Pollution Control at 219/882-3007,
- (d) City of Hammond -- Hammond Department of Environmental Management (HDEM) at 219/853-6306,
- (e) Marion County -- Indianapolis Environmental Resource Management Division (ERMD) at 317/327-2287,
- (f) St. Joseph County -- St. Joseph County Environmental Health at 219/235-9775, and
- (g) Vigo County -- Vigo County Air Pollution Control Department at 812/462-3433.

Open Burning

21. That the Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6.

MALFUNCTION REPORT

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
FAX NUMBER - 317 233-5967**

This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.

THIS FACILITY MEETS THE APPLICABILITY REQUIREMENTS BECAUSE: IT HAS POTENTIAL TO EMIT 25 LBS/HR PARTICULATES ? _____, 100 LBS/HR VOC ? _____, 100 LBS/HR SULFUR DIOXIDE ? _____ OR 2000 LBS/HR OF ANY OTHER POLLUTANT ? _____ EMISSIONS FROM MALFUNCTIONING CONTROL EQUIPMENT OR PROCESS EQUIPMENT CAUSED EMISSIONS IN EXCESS OF APPLICABLE LIMITATION _____.

THIS MALFUNCTION RESULTED IN A VIOLATION OF: 326 IAC _____ OR, PERMIT CONDITION # _____ AND/OR PERMIT LIMIT OF _____

THIS INCIDENT MEETS THE DEFINITION OF 'MALFUNCTION' AS LISTED ON REVERSE SIDE ? Y N

THIS MALFUNCTION IS OR WILL BE LONGER THAN THE ONE (1) HOUR REPORTING REQUIREMENT ? Y N

COMPANY: _____ PHONE NO. () _____

LOCATION: (CITY AND COUNTY) _____

PERMIT NO. _____ AFS PLANT ID: _____ AFS POINT ID: _____ INSP: _____

CONTROL/PROCESS DEVICE WHICH MALFUNCTIONED AND REASON: _____

DATE/TIME MALFUNCTION STARTED: ____/____/19____ AM / PM

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION:

DATE/TIME CONTROL EQUIPMENT BACK-IN SERVICE ____/____/19____ AM/PM

TYPE OF POLLUTANTS EMITTED: TSP, PM-10, SO2, VOC, OTHER: _____

ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: _____

MEASURES TAKEN TO MINIMIZE EMISSIONS: _____

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:

CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL * SERVICES: _____

CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS: _____

CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT: _____

INTERIM CONTROL MEASURES: (IF APPLICABLE) _____

MALFUNCTION REPORTED BY:

TITLE: _____
(SIGNATURE IF FAXED)

MALFUNCTION RECORDED BY: _____ DATE: _____ TIME: _____

REV 3/96

FAX NUMBER - 317 233-5967

PAGE 1 OF 2

Please note - This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.

326 IAC 1-6-1 Applicability of rule

Sec. 1. The requirements of this rule (326 IAC 1-6) shall apply to the owner or operator of any facility which has the potential to emit twenty-five (25) pounds per hour of particulates, one hundred (100) pounds per hour of volatile organic compounds or SO₂, or two thousand (2,000) pounds per hour of any other pollutant; or to the owner or operator of any facility with emission control equipment which suffers a malfunction that causes emissions in excess of the applicable limitation.

326 IAC 1-2-39 “Malfunction” definition

Sec. 39. Any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. (Air Pollution Control Board; 326 IAC 1-2-39; filed Mar 10, 1988, 1:20 p.m. : 11 IR 2373)

***Essential services** are interpreted to mean those operations, such as, the providing of electricity by power plants. Continued operation solely for the economic benefit of the owner or operator shall not be sufficient reason why a facility cannot be shutdown during a control equipment shutdown.

If this item is checked on the front, please explain rationale:

Indiana Department of Environmental Management Office of Air Management

Technical Support Document (TSD) for New Construction and Operation

Source Background and Description

Source Name: Mulzer Crushed Stone, Inc.
Initial Plant Location: Cape Sandy Quarry, Rural Route 1, Leavenworth, IN 47137
Initial County Location: Crawford County
Construction Permit No.: CP-025-9062-00002
SIC Code: 1423
Permit Reviewer: Marco A. Salenda

The Office of Air Management (OAM) has reviewed an application from Mulzer Crushed Stone, Inc. relating to the construction and operation of a portable limestone secondary crushing plant with a maximum production capacity of 390 tons per hour. This plant will be initially located in Mulzer Crushed Stone Inc.'s Cape Sandy Quarry, where the company has an existing Part 70 source. This plant will consist of loading and unloading, crushing, screening, conveying, storage, and transporting operations; and will utilize the following equipment:

- (a) one (1) feed hopper;
- (b) one (1) feed belt;
- (c) one (1) feeder (ID# AK 1403) with a maximum rated capacity of 390 tons per hour;
- (d) one (1) secondary crusher (ID# AI 1402) with a maximum rated capacity of 390 tons per hour;
- (e) one (1) surge bin;
- (f) one (1) 8' x 20' screen (ID# AK 1404) with a maximum rated capacity of 390 tons per hour;
- (g) two (2) stackers (ID#s AJ 1430 and AJ 1433);
- (h) three (3) conveyors (ID#s AJ 1420 through AJ 1422); and
- (i) one (1) no.2 fuel oil-fired intermittent electric generator (ID# AG 1402) with a maximum heat input capacity of 7.4 million British Thermal Units per hour (MMBtu/hr).

Source Definition

Aside from the subject portable limestone secondary crushing plant, this limestone processing company also consists of the following permitted plants:

- (a) limestone processing plant 1;
- (b) limestone processing plant 2; and
- (c) sand manufacturing plant.

Since these four (4) plants are located in contiguous properties and owned by one company, they will be considered as one (1) source.

Stack Summary

Stack ID	Operation	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature (°F)
AG 1402	no.2 fuel oil-fired intermittent electric generator (ID# AG 1402)	14.0	1.0	6,805	830

Recommendation

The staff recommends to the Commissioner that the construction and operation be approved. This recommendation is based on the following facts and conditions:

Information, unless otherwise stated, used in this review was derived from the application and additional information submitted by the applicant.

A complete application for the purposes of this review was received on September 30, 1997.

Emissions Calculations

See Appendices A through D (Emissions Calculation Spreadsheets) for detailed calculations (nine pages).

Total Potential and Allowable Emissions

Indiana Permit Allowable Emissions Definition (after compliance with applicable rules, based on 8,760 hours of operation per year at rated capacity):

Pollutant	Allowable Emissions (tons/year)	Potential Emissions (tons/year)
Particulate Matter (PM)	262	262
Particulate Matter (PM-10)	108	108
Sulfur Dioxide (SO ₂)	9.3	9.3
Volatile Organic Compounds (VOC)	13	13
Carbon Monoxide (CO)	31	31
Nitrogen Oxides (NO _x)	142	142
Single Hazardous Air Pollutant (HAP)	0.0	0.0
Combination of HAPs	0.1	0.1

- (a) The potential emissions for the other criteria pollutants are equivalent to their allowable emissions. Therefore, the potential emissions become the allowable emissions.
- (b) Allowable emissions (as defined in the Indiana Rule) of at least one (1) criteria pollutant is greater than 25 tons per year. Therefore, pursuant to 326 IAC 2-1, Sections 1 and 3, a construction permit is required.

County Attainment Status

- (a) Volatile organic compounds (VOC) and oxides of nitrogen (NO_x) are precursors for the

formation of ozone. Therefore, VOC emissions are considered when evaluating the rule applicability relating to the ozone standards. Crawford County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.

- (b) Crawford County has also been classified as attainment or unclassifiable for total suspended particulates (TSP), particulate matter with aerodynamic diameter less than 10 microns (PM-10), sulfur dioxide (SO₂), and carbon monoxide (CO). Therefore, these emissions were reviewed pursuant to the requirements of Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.
- (c) Fugitive Emissions
Since this type of operation is not one of the 28 listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive PM emissions are not counted toward determination of PSD applicability.

Portable Plant

- (a) This part of the source is portable.
- (b) Initial Location
This is a portable plant and its initial location will be in Cape Sandy Quarry, Rural Route 1, Leavenworth, IN 47137.
- (c) PSD and Emission Offset Requirements
The emissions from this portable limestone secondary crushing plant were reviewed both under the requirements of the Prevention of Significant Deterioration (PSD), 326 IAC 2-2, 40 CFR 52.21, and Emission Offset, 326 IAC 2-3.
- (d) Fugitive Emissions
Since this type of operation is not one of the 28 listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive PM emissions are not counted toward determination of PSD and Emission Offset applicability.

Source Status

Existing Source PSD Definition (emissions after controls, based on 8,760 hours of operation per year at rated capacity and/ or as otherwise limited):

Pollutant	Emissions (ton/yr)
PM	5,785
PM-10	2,755
SO ₂	0.0

VOC	0.0
CO	0.0
NO _x	0.0

- (a) The existing source is a major PSD stationary source because at least one attainment regulated pollutant is emitted at a rate of 250 tons per year.
- (b) These emissions were based on the Facility Quick Look Report, dated July 1997.

Proposed Modification

- (a) The source has agreed to limit the no. 2 distillate fuel oil usage of this portable limestone secondary crushing plant to 126,300 gallons per 365 consecutive day period. This limits the NO_x emissions from the modification to less than 40 tons per year.
- (b) PTE from the proposed modification (based on 8,760 hours of operation per year at rated capacity including enforceable emission control and production limit, where applicable):

Pollutant	PM (ton/yr)	PM-10 (ton/yr)	SO ₂ (ton/yr)	VOC (ton/yr)	CO (ton/yr)	NO _x (ton/yr)
Proposed Modification	8.7	5.6	4.4	3.5	8.4	39
Contemporaneous Increases	---	---	---	---	---	---
Contemporaneous Decreases	---	---	---	---	---	---
Net Emissions	8.7	5.6	4.4	3.5	8.4	39
PSD Significant Level	25	15	40	40	100	40

- (c) This modification to an existing major stationary source is not major because the emissions increase is less than the PSD significant levels. Therefore, pursuant to 326 IAC 2-2, and 40 CFR 52.21, the PSD requirements do not apply.

Part 70 Permit Determination

326 IAC 2-7 (Part 70 Permit Program)

The existing source has submitted its Part 70 (T-025-7484-00002) application on December 11, 1996. The equipment being reviewed under this permit shall be incorporated in the submitted Part 70 application.

Federal Rule Applicability

40 CFR Part 60, Subpart OOO

This portable limestone secondary crushing plant is subject to the New Source Performance Standard 326 IAC 12 and 40 CFR 60.670 through 60.676, Subpart OOO. This rule requires the particulate emissions from:

- (a) the crushing operations to be limited to 15 percent opacity or less, and
- (b) the screening and conveying operations to be limited to 10 percent or less.
(enclosed is a copy of this federal rule)

State Rule Applicability

- (a) 326 IAC 2-6 (Emission Reporting)
This limestone secondary crushing plant is subject to 326 IAC 2-6 (Emission Reporting), because the source emits more than 100 tons per year of PM-10. Pursuant to this rule, the owner/operator of this limestone secondary crushing plant must annually submit an emission statement of the facility. The annual statement must be received by July 1 of each year and must contain the minimum requirements as specified in 326 IAC 2-6-4.
- (b) 326 IAC 5-1 (Visible Emissions)
Pursuant to 326 IAC 5-1-2 (Visible Emission Limitations) except as provided in 326 IAC 5-1-3 (Temporary Exemptions), the visible emissions shall meet the following:
 - (1) visible emissions shall not exceed an average of 30% opacity in 24 consecutive readings.
 - (2) visible emissions shall not exceed 60% opacity for more than a cumulative total of 15 minutes (60 readings) in a 6-hour period.
- (c) 326 IAC 6-4 (Fugitive Dust Emissions)
This rule requires the source not to generate fugitive dust to the extent that some portion of the material escapes beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located.
- (d) 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)
This rule requires a fugitive dust plan to be submitted. The plan, which was submitted on September 30, 1997, was reviewed, and approved. The source shall comply with all dust abatement measures contained therein, which includes, but not limited to, applying water on storage piles, unpaved roadways, material loading and unloading operations on an "as-needed" basis such that the following visible emission conditions are met:
 - (1) Visible emissions from storage piles shall not exceed twenty percent (20%) in twenty four (24) consecutive readings in a six (6) minute period. This limitation may not apply during periods when application of control measures are ineffective or unreasonable due to sustained very high wind speeds. The opacity shall be determined using 40 CFR 60, Appendix A, Method 9, except that the opacity shall be observed at approximately four (4) feet from the surface at the point of maximum opacity. The observer shall stand at least fifteen (15) feet, but no more than one-fourth (1/4) mile, from the plume and at approximately right angles to the plume.
 - (2) Visible emissions from unpaved roadways shall not exceed an average instantaneous opacity of twenty percent (20%). Average instantaneous opacity shall be the average of twelve (12) instantaneous opacity readings, taken for four (4) vehicle passes, consisting of three (3) opacity readings for each vehicle pass. The three (3) opacity readings for each vehicle pass shall be taken as follows:

- (A) The first will be taken at the time of emission generation.
- (B) The second will be taken five (5) seconds later.
- (C) The third will be taken five (5) seconds later or ten (10) seconds after the first.

The three (3) readings shall be taken at the point of maximum opacity. The observer shall stand at least fifteen (15) feet, but no more than one-fourth (1/4) mile, from the plume and at approximately right angles to the plume. Each reading shall be taken approximately four (4) feet above the surface of the unpaved roadway.

- (3) Visible emissions from the material loading and unloading operation shall not exceed an average instantaneous opacity of twenty percent (20%). The average instantaneous opacity shall be the average of three (3) opacity readings taken five (5) seconds, ten (10) seconds, and fifteen (15) seconds after the end of one (1) material loading or unloading operation. The three (3) readings shall be taken at the point of maximum opacity. The observer shall stand at least fifteen (15) feet, but no more than one-fourth (1/4) mile, from the plume and at approximately right angles to the plume.

Compliance with these opacity limitations shall also meet the requirements of 326 IAC 5-1.

- (e) 326 IAC 7-1.1-2 (Sulfur Dioxide Emission Limitations)
This rule does not apply since the potential to emit SO₂ from the intermittent electric generator (ID# AG 1402) does not exceed 25 tons per year or 10 pounds per hour.

Air Toxic Emissions

Indiana presently requests applicants to provide information on emissions of the 187 hazardous air pollutants set out in the Clean Air Act Amendments of 1990. These pollutants are either carcinogenic or otherwise considered toxic and are commonly used by industries. They are listed as air toxics on the Office of Air Management (OAM) Construction Permit Application Form Y.

- (a) This modification will emit levels of air toxics less than those which constitute a major source according to Section 112 of the 1990 Amendments to Clean Air Act.
- (b) See Appendix C for detailed air toxic calculations.

Conclusion

The construction of this portable limestone secondary crushing plant will be subject to the conditions of the attached proposed **Construction Permit No. CP-025-9062, Plt ID 025-00002.**

Appendix D: Emission Calculations

Emissions Summary

Company Name:	Mulzer Crushed Stone, Inc.
Plant Location:	Rural Route 1, Leavenworth, Indiana 47137
County:	Crawford
Date Received:	September 30, 1997
Permit Reviewer:	Marco A. Salenda
CP No.:	025-9062
Plt. ID No.:	025-00002

Pollutant	Potential Emissions			Limited Potential
	Before Ctrls	After Ctrls	After Ctrls (nonfug.)	After Ctrls (nonfug.)
PM	262.0	112.0	16.0	8.7
PM-10	108.2	47.7	12.8	5.6
SO2	9.3	9.3	9.3	4.4
NOx	142.0	142.0	142.0	39.0
VOC	12.9	12.9	12.9	3.5
CO	30.6	30.6	30.6	8.4
benzene	0.03	0.03	0.03	0.01
toluene	0.01	0.01	0.01	0.00
xylenes	0.01	0.01	0.01	0.00
formaldehyde	0.04	0.04	0.04	0.01
acetaldehyde	0.02	0.02	0.02	0.01
acrolein	0.00	0.00	0.00	0.00
TOTAL HAPs	0.12	0.12	0.12	0.03