

MINOR SOURCE OPERATING PERMIT (MSOP)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT

and

HAMMOND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

Saxon Metal, Inc.
2230 Indianapolis Boulevard
Whiting, Indiana 46394

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the emission units described in Section A (Source Summary) of this permit.

This permit is issued to the above mentioned company under the provisions of 326 IAC 2-1.1, 326 IAC 2-6.1 and 40 CFR 52.780, with conditions listed on the attached pages.

Operation Permit No.: MSOP 089-11411-00262	
Issued by: _____ Ronald L. Novak, Director Hammond Department of Environmental Management Air Pollution Control Division	Issuance Date: <u>November 8, 2000</u> Expiration Date: <u>December 31, 2000</u>

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SECTION A

SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM)-Office of Air Management (OAM) and the Hammond Department of Environmental Management (HDEM). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-5.1-3(c)] [326 IAC 2-6.1-4(a)]

The Permittee owns and operates a stationary secondary nonferrous metals plant.

Authorized Individual: Neil Berg, Operations Manager
Source Address: 2230 Indianapolis Boulevard, Whiting, Indiana 46394
Mailing Address: P.O. Box 632
Phone Number: (219)659-2600
SIC Code: 3341 Furnaces and Kettles for die cast metal smelting
County Location: Lake County
County Status: Attainment/Unclassifiable for CO and NO₂,
Attainment for Pb,
Primary Nonattainment for SO₂,
Moderate Nonattainment for PM₁₀, and
Severe Nonattainment for VOC and NO_x (Ozone).
Source Status: Minor Source Operating Permit
Minor Source, under PSD and Emission Offset Rules

A.2 Emissions units and Pollution Control Equipment Summary

This stationary source is approved to operate the following emissions units and pollution control devices:

- (a) One (1) Zinc Die Cast and Solder Lead Alloying Process: The Solder Lead Alloying Process utilizes Furnace F-1, with a maximum design capacity of 0.375 tons per hour and Melt Kettles K6 and K10 – K17, with a maximum design rate of 1.6 tons per hour, combined and sometimes Furnace F-3. The Zinc Die Cast Alloying Process utilizes Furnaces F-2 and F-3, with a maximum design rate of 0.75 tons per hour, combined and Furnace F-1. The Sweat Furnaces use Holding Kettles K-18, K-19, and K-20, respectively. Zinc Die Cast Refining Kettles K2 – K4, with a maximum design rate of 1.5 tons per hour, combined are also used. The Furnaces and Kettles use natural gas only and have a combined maximum design capacity of 23 MMBtu/hr. Particulate emissions from the furnaces and melt kettles are drafted to an American Air Bag Filter Dust Collector System.

A.3 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is not required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

- (a) It is a minor source, as defined in 326 IAC 2-7-1(22);
- (b) It is not an affected source under Title IV (Acid Deposition Control) of the Clean Air Act, as defined in 326 IAC 2-7-1(3);
- (c) It is not a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 – Applicability).

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

C.1 PSD Minor Source Status [326 IAC 2-2] [40 CFR 52.21]

- (a) The total source potential to emit of CO and Pb is less than 250 tons per year and 100 tons per year, respectively. Therefore the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) and 40 CFR 52.21 will not apply.
- (b) Any change or modification which may increase potential to emit of CO to 250 tons per year or Pb to 100 tons per year from this source, shall cause this source to be considered a major source under PSD, 326 IAC 2-2 and 40 CFR 52.21, and shall require approval from IDEM-OAM prior to making the change.

C.2 Emission Offset Minor Source Status [326 IAC 2-3]

- (a) The total source potential to emit of PM-10 and SO₂ is less than 100 tons per year. Therefore, the requirements of 326 IAC 2-3 (Emission Offset) will not apply.
- (b) The total source potential to emit of VOC and NO_x is less than 25 tons per year. Therefore, the requirements of 326 IAC (Emission Offset) will not apply.
- (c) Any change or modification which may increase potential to emit of PM-10 or SO₂ to 100 tons per year, from the equipment covered in this permit, shall require an Emission Offset pursuant to 326 IAC 2-3, before such change may occur.
- (d) Any change or modification which may increase potential to emit of VOC or NO_x to 25 tons per year, from the equipment covered in this permit, shall require an Emission Offset pursuant to 326 IAC 2-3, before such change may occur.
- (e) Any change or modification which may increase potential to emit of VOC to 25 tons per year, 10 tons per year of any single hazardous air pollutant, 25 tons per year of any combination of hazardous air pollutants, or 100 tons per year of any other regulated pollutant from this source, shall cause this source to be considered a major source under Part 70 Permit Program, 326 IAC 2-7, and shall require approval from IDEM-OAM prior to making the change.

C.3 Preventive Maintenance Plan [326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMP) after issuance of this permit, including the following information on each emissions unit:
 - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions;
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) The Permittee shall implement the Preventive Maintenance Plans as necessary to ensure that failure to implement the Preventive Maintenance Plan does not cause or contribute to a violation of any limitation on emissions or potential to emit.

- (c) PMP's shall be submitted to IDEM-OAM and HDEM upon request and shall be subject to review and approval by IDEM-OAM and HDEM. IDEM-OAM and HDEM may require the Permittee to revise its Preventive Maintenance Plan whenever lack of proper maintenance causes or contributes to any violation.

C.4 Permit Revision [326 IAC 2-5.1-3(e)(3)] [326 IAC 2-6.1-6]

- (a) The Permittee must comply with the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

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

and

Hammond Department of Environmental Management
5925 Calumet Avenue – Room 304
Hammond, Indiana 46320

Any such application should be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1.

- (c) The Permittee shall notify the OAM and HDEM within thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

C.5 Inspection and Entry [326 IAC 2-5.1-3(e)(4)(B)] [326 IAC 2-6.1-5(a)(4)]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM-OAM, HDEM, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a permitted source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) Have access to and copy, at reasonable times, any records that must be kept under this title or the conditions of this permit or any operating permit revisions;
- (c) Inspect, at reasonable times, any processes, emissions units (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit or any operating permit revisions;
- (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

C.6 Transfer of Ownership or Operation [326 IAC 2-6.1-6(d)(3)]

Pursuant to [326 IAC 2-6.1-6(d)(3)] :

- (a) In the event that ownership of this source is changed, the Permittee shall notify IDEM-OAM, Permits Branch and HDEM within thirty (30) days of the change.
- (b) The written notification shall be sufficient to transfer the permit to the new owner by a notice-only change pursuant to 326 IAC 2-6.1-6(d)(3).
- (c) IDEM-OAM and HDEM shall issue a revised permit.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

C.7 Permit Revocation [326 IAC 2-1-9]

Pursuant to 326 IAC 2-1-9(a)(Revocation of Permits), this permit to 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 and HDEM, the fact that continuance of this permit is not consistent with purposes of this article.

C.8 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of twenty percent (20%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.9 Fugitive Dust Emissions [326 IAC 6-1-11.1]

The Permittee shall be in violation of 326 IAC 6-1-11.1 (Lake County Fugitive Particulate Matter Control Requirements), if the opacity of fugitive particulate emissions exceeds ten percent (10%).

C.10 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted by using good engineering practices (GEP) pursuant to 326 IAC 1-7-3.

Testing Requirements

C.11 Performance Testing [326 IAC 3-6]

- (a) Compliance testing on new emissions units shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up, if specified in Section D of this approval. All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM-OAM.

A test protocol, except as provided elsewhere in this permit, 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

and

Hammond Department of Environmental Management
5925 Calumet Avenue – Room 304
Hammond, Indiana 46320

no later than thirty-five (35) days prior to the intended test date. The Permittee shall submit a notice of the actual test date to the above addresses so that it is received at least two weeks prior to the test date.

- (b) All test reports must be received by IDEM-OAM and HDEM within forty-five (45) days after the completion of the testing. An extension may be granted by the IDEM-OAM and HDEM, if the source submits to IDEM-OAM and HDEM, a reasonable written explanation within five (5) days prior to the end of the initial forty-five (45) day period.

The documentation submitted by the Permittee does not require certification by the “authorized individual” as defined by 326 IAC 2-1.1-1.

Compliance Monitoring Requirements

C.12 Compliance Monitoring [326 IAC 2-1.1-11]

Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. All monitoring and record keeping requirements not already legally required shall be implemented when operation begins.

C.13 Monitoring Methods [326 IAC 3]

Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, or other approved methods as specified in this permit.

C.14 Pressure Gauge Specifications [326 IAC 2-1.1-11]

Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ($\pm 2\%$) of full scale.

C.15 Compliance Monitoring Plan - Failure to Take Response Steps [326 IAC 1-6]

- (a) The Permittee is required to implement a compliance monitoring plan to ensure that reasonable information is available to evaluate its continuous compliance with applicable requirements. This compliance monitoring plan is comprised of:
- (1) This condition;
 - (2) The Compliance Determination Requirements in Section D of this permit;
 - (3) The Compliance Monitoring Requirements in Section D of this permit;
 - (4) The Record Keeping and Reporting Requirements in Section C (Monitoring Data Availability, General Record Keeping Requirements, and General Reporting Requirements) and in Section D of this permit; and
 - (5) A Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. CRP's shall be submitted to IDEM-OAM and HDEM upon request and shall be subject to review and approval by IDEM-OAM and HDEM. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee and maintained on site, and is comprised of:
 - (A) Response steps that will be implemented in the event that compliance related information indicates that a response step is needed pursuant to the requirements of Section D of this permit; and
 - (B) A time schedule for taking such response steps including a schedule for devising additional response steps for situations that may not have been predicted.
- (b) For each compliance monitoring condition of this permit, appropriate response steps shall be taken when indicated by the provisions of that compliance monitoring condition. Failure to perform the actions detailed in the compliance monitoring conditions or failure to take the response steps within the time prescribed in the Compliance Response Plan, shall constitute a violation of the permit unless taking the response steps set forth in the Compliance Response Plan would be unreasonable.
- (c) After investigating the reason for the excursion, the Permittee is excused from taking further response steps for any of the following reasons:
- (1) The monitoring equipment malfunctioned, giving a false reading. This shall be an excuse from taking further response steps providing that prompt action was taken to correct the monitoring equipment.

- (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied or;
 - (3) An automatic measurement was taken when the process was not operating; or
 - (4) The process has already returned to operating within "normal" parameters and no response steps are required.
- (d) Records shall be kept of all instances in which the compliance related information was not met and of all response steps taken.

C.16 Actions Related to Noncompliance Demonstrated by a Stack Test

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate corrective actions. The Permittee shall submit a description of these corrective actions to IDEM-OAM and HDEM, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize emissions from the affected emissions unit while the corrective actions are being implemented. IDEM-OAM or HDEM shall notify the Permittee within thirty (30) days, if the corrective actions taken are deficient. The Permittee shall submit a description of additional corrective actions taken to IDEM-OAM and HDEM within thirty (30) days of receipt of the notice of deficiency. IDEM-OAM and HDEM reserves the authority to use enforcement activities to resolve noncompliant stack tests.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM-OAM and HDEM that retesting in one-hundred and twenty (120) days is not practicable, IDEM-OAM and HDEM may extend the retesting deadline. Failure of the second test to demonstrate compliance with the appropriate permit conditions may be grounds for immediate revocation of the permit to operate the affected emissions unit.

The documents submitted pursuant to this condition do not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

Record Keeping and Reporting Requirements

C.17 Malfunctions Report [326 IAC 1-6-2]

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 and HDEM, 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]

C.18 Annual Emission Statement [326 IAC 2-6]

- (a) The Permittee shall submit an annual emission statement certified pursuant to the requirements of 326 IAC 2-6, that must be received by April 15th of each year and must comply with the minimum requirements specified in 326 IAC 2-6-4. The annual emission statement shall meet the following requirements:
 - (1) Indicate actual emissions of criteria pollutants from the source, in compliance with 326 IAC 2-6 (Emission Reporting);
 - (2) Indicate actual emissions of other regulated pollutants from the source, for purposes of Part 70 fee assessment.
- (b) The annual emission statement covers the twelve (12) consecutive month time period starting December 1 and ending November 30. The annual emission 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

and

Hammond Department of Environmental Management
5925 Calumet Avenue – Room 304
Hammond, Indiana 46320

- (c) The annual emission statement required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM-OAM and HDEM on or before the date it is due.

The submittal by the Permittee does require the certification by the “authorized individual” as defined by 326 IAC 2-1.1-1.

C.19 Monitoring Data Availability [326 IAC 2-6.1-2] [IC 13-14-1-13]

- (a) With the exception of performance tests conducted in accordance with Section C-Performance Testing, all observations, sampling, maintenance procedures, and record keeping, required as a condition of this permit shall be performed at all times the equipment is operating at normal representative conditions.
- (b) As an alternative to the observations, sampling, maintenance procedures, and record keeping of subsection (a) above, when the equipment listed in Section D of this permit is not operating, the Permittee shall either record the fact that the equipment is shut down or perform the observations, sampling, maintenance procedures, and record keeping that would otherwise be required by this permit.
- (c) If the equipment is operating but abnormal conditions prevail, additional observations and sampling should be taken with a record made of the nature of the abnormality.

- (d) If for reasons beyond its control, the operator fails to make required observations, sampling, maintenance procedures, or record keeping, reasons for this must be recorded.
- (e) At its discretion, IDEM and HDEM may excuse such failure providing adequate justification is documented and such failures do not exceed five percent (5%) of the operating time in any quarter.
- (f) Temporary, unscheduled unavailability of staff qualified to perform the required observations, sampling, maintenance procedures, or record keeping shall be considered a valid reason for failure to perform the requirements stated in (a) above.

C.20 General Record Keeping Requirements [326 IAC 2-6.1-2]

- (a) Records of all required monitoring data and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location for a minimum of three (3) years and available upon the request of an IDEM-OAM or HDEM representative. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner or HDEM makes a written request for records to the Permittee, the Permittee shall furnish the records to the Commissioner or HDEM within a reasonable time.
- (b) Records of required monitoring information shall include, where applicable:
 - (1) The date, place, and time of sampling or measurements;
 - (2) The dates analyses were performed;
 - (3) The company or entity performing the analyses;
 - (4) The analytic techniques or methods used;
 - (5) The results of such analyses; and
 - (6) The operating conditions existing at the time of sampling or measurement.
- (c) Support information shall include, where applicable:
 - (1) Copies of all reports required by this permit;
 - (2) All original strip chart recordings for continuous monitoring instrumentation;
 - (3) All calibration and maintenance records;
 - (4) Records of preventive maintenance shall be sufficient to demonstrate that failure to implement the Preventive Maintenance Plan did not cause or contribute to a violation of any limitation on emissions or potential to emit. To be relied upon subsequent to any such violation, these records may include, but are not limited to: work orders, parts inventories, and operator's standard operating procedures. Records of response steps taken shall indicate whether the response steps were performed in accordance with the Compliance Response Plan required by Section C - Compliance Monitoring Plan - Failure to take Response Steps, of this permit, and whether a deviation from a permit condition was reported. All records shall briefly describe what maintenance and response steps were taken and indicate who performed the tasks.
- (d) All record keeping requirements not already legally required shall be implemented when operation begins.

C.21 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

- (a) Any reports required by conditions in Section D of this permit 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

and

Hammond Department of Environmental Management
5925 Calumet Avenue – Room 304
Hammond, Indiana 46320

- (b) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM-OAM and HDEM on or before the date it is due.
- (c) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period.

C.22 Annual Notification [326 IAC 2-6.1-5(a)(5)]

- (a) Annual notification shall be submitted to the Office of Air Management and HDEM stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.
- (b) Noncompliance with any condition must be specifically identified. If there are any permit conditions or requirements for which the source is not in compliance at any time during the year, the Permittee must provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be, achieved. The notification must be signed by an authorized individual.
- (c) The annual notice shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in the format attached no later than April 15 of each year to:

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

and

Hammond Department of Environmental Management
5925 Calumet Avenue – Room 304
Hammond, Indiana 46320

- (d) The notification shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM-OAM and HDEM on or before the date it is due.

SECTION D.1

EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

One (1) Zinc Die Cast and Solder Lead Alloying Process: The Solder Lead Alloying Process utilizes Furnace F-1, with a maximum design capacity of 0.375 tons per hour and Melt Kettles K6 and K10 – K17, with a maximum design rate of 1.6 tons per hour, combined and sometimes Furnace F-3. The Zinc Die Cast Alloying Process utilizes Furnaces F-2 and F-3, with a maximum design rate of 0.75 tons per hour, combined and Furnace F-1. The Sweat Furnaces use Holding Kettles K-18, K-19, and K-20, respectively. Zinc Die Cast Refining Kettles K2 – K-4, with a maximum design rate of 1.5 tons per hour, combined are also used. The Furnaces and Kettles use natural gas only and have a combined maximum design capacity of 23 MMBtu/hr. Particulate emissions from the furnaces and melt kettles are drafted to an American Air Bag Filter Dust Collector System.

Emission Limitations and Standards

D.1.1 Particulate Matter (PM) [326 IAC 6-1-2(a)]

Pursuant to 326 IAC 6-1-2(a)(Nonattainment Area Particulate Limitations), particulate matter (PM) emissions from the Zinc Die Cast and Solder Lead Alloying Process shall be limited to 0.03 grain per dry standard cubic foot.

D.1.2 Particulate Matter less than 10 microns (PM10)

Pursuant to the Hammond Air Quality Control Ordinance No. 3522 (as amended), the PM10 emissions limit for this facility shall be set equal to the PM emissions limit.

D.1.3 Lead (Pb)

Pursuant to the Hammond Air Quality Control Ordinance No. 3522 (as amended), the Pb emission limit for this facility shall be set equal to the potential emissions after controls: 0.012lbs/hr and 0.052 tons per year.

D.1.4 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section C - Preventive Maintenance Plan, of this permit, is required for these emissions units and any control devices.

Compliance Determination Requirements

D.1.5 Testing Requirements [326 IAC 2-1.1-11]

The Permittee is not required to test these emissions units by this permit. However, IDEM or HDEM may require compliance testing when necessary to determine if the emissions units are in compliance. If testing is required by IDEM or HDEM compliance with the PM limit specified in Condition D.1.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

D.1.6 Particulate Matter (PM)

Pursuant to OP# 01601, issued on February 11, 2000, the American Air Bag Filter Dust Collector System for PM control shall be in operation at all times when the furnaces and melt kettles are in operation. All pot and furnace hoods and ductwork to the baghouse shall be considered part of the American Air Bag Filter Dust Collector emission control system and shall be inspected daily to assure that all hoods are situated properly and maintaining sufficient draft to the baghouse.

Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.1.7 Visible Emissions Notations

- (a) Daily visible emission notations of the Zinc Die Cast and Solder Lead Alloying Process stack exhaust shall be performed during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

D.1.8 Parametric Monitoring

The Permittee shall record the total static pressure drop across the collector used in conjunction with the American Air Bag Filter Dust Collector System, at least once weekly when the American Air Bag Filter Dust Collector System is in operation when venting to the atmosphere. Unless operated under condition for which the Compliance Response Plan specifies otherwise, the pressure drop across the collector shall be maintained within the range of 0.5 and 2.5 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading.

The instrument used for determining the pressure shall comply with Section C – Pressure Gauge Specifications, of this permit, shall be subject to approval by IDEM-OAM and HDEM and shall be calibrated at least once every six (6) months.

D.1.9 Baghouse Inspections

An inspection shall be performed each calendar quarter of all bags controlling the Zinc Die Cast and Solder Lead Alloying Process when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. All defective bags shall be replaced.

D.1.10 Broken or Failed Bag Detection

In the event that bag failure has been observed:

- (a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion. Operations may continue only if the event qualifies as a malfunction.
- (b) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as a malfunction.

Record Keeping and Reporting Requirement [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.1.11 Record Keeping Requirements

- (a) To document compliance with Conditions D.1.1, D.1.2, and D.1.3, the Permittee shall record and maintain the following information:
 - (1) Daily production data of material processed (in tons) for the Sweat Furnaces (F-1, F-2, and F-3) and the Melt Kettles.
 - (2) Monthly fuel usage data for Sweat Furnaces (F-1, F-2, and F-3), the Holding Kettles, and Melt Kettles.
 - (3) Weekly inspection and maintenance activities performed on the American Air Bag Filter Dust Collector System.
- (b) To document compliance with Condition D.1.7, the Permittee shall maintain records of daily visible emission notations of the Zinc Die Cast and Solder Lead Alloying Process stack exhaust.
- (c) To document compliance with Condition D.1.8, the Permittee shall maintain the following:
 - (1) Daily records of the following operational parameters during normal operation when venting to the atmosphere:
 - (A) Inlet and outlet differential static pressure; and
 - (B) Cleaning cycle: frequency and differential pressure.
 - (2) Documentation of all response steps implemented, per event .
 - (3) Operation and preventive maintenance logs, including work purchases orders, shall be maintained.
 - (4) Quality Assurance/Quality Control (QA/QC) procedures.
 - (5) Operator standard operating procedures (SOP).
 - (6) Manufacturer's specifications or its equivalent.
 - (7) Equipment "troubleshooting" contingency plan.
 - (8) Documentation of the dates vents are redirected.
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.12 Reporting Requirements

A summary of the information to document compliance with Conditions D.1.1, D.1.2, and D.1.3 shall be submitted to the address(es) listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, upon request.

**Indiana Department of Environmental Management
 Office of Air Management
 Compliance Data Section
 and
 Hammond Department of Environmental Management**

Daily Production Data

Company Name: **Saxon Metal, Inc.**
 Location: 2230 Indianapolis Blvd., Whiting, IN 46394
 Permit No.: MSOP 089-11411-00262

Month: _____ Year: _____

	Solder and Lead Alloys			Zinc Die Cast Alloys		
	Sweat Furnace F-1/F-3	Kettle Refining K6, K10-17	Casting	Sweat Furnaces F-1, F-2, & F-3	Kettle Refining K2, K3, & K4	Casting
Date						
Production (Tons)						
Hours of Operation						
Date						
Production (Tons)						
Hours of Operation						
Date						
Production (Tons)						
Hours of Operation						
Date						
Production (Tons)						
Hours of Operation						
Date						
Production (Tons)						
Hours of Operation						

Submitted by: _____
 Title/Position: _____
 Signature: _____
 Date: _____

**Indiana Department of Environmental Management
Office of Air Management
Compliance Data Section**

and

Hammond Department of Environmental Management

Baghouse Inspection and Maintenance Records

Company Name: **Saxon Metal, Inc.**
Location: 2230 Indianapolis Blvd., Whiting, IN 46394
Permit No.: MSOP 089-11411-00262

Month: _____ Year: _____

Date	Employee Name	Summary of Inspection

Submitted by: _____
Title/Position: _____
Signature: _____
Date: _____

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
COMPLIANCE DATA SECTION
and
HAMMOND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**

**MINOR SOURCE OPERATING PERMIT
ANNUAL NOTIFICATION**

This form should be used to comply with the notification requirements under 326 IAC 2-6.1-5(a)(5).

Company Name:	Saxon Metal, Inc.
Address:	2230 Indianapolis Blvd.
City:	Whiting, Indiana 46394
Phone #:	(219)659-2600
MSOP #:	089-11411-00262

I hereby certify that **Saxon Metal, Inc.** is still in operation.
 no longer in operation.

I hereby certify that **Saxon Metal, Inc.** is in compliance with the requirements of **MSOP 089-11411-00262**.
 not in compliance with the requirements of **MSOP 089-11411-00262**.

Authorized Individual (typed):
Title:
Signature:
Date:

If there are any conditions or requirements for which the source is not in compliance, provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be achieved.

Noncompliance:

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. This rule applies to the owner or operator of any facility required to obtain a permit under 326 IAC 2-5.1 or 326 IAC 2-6.1.

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.

***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:

Hammond Department of Environmental Management -Air Pollution Control Division-

Addendum to the Technical Support Document for a Minor Source Operating Permit

Source Name: **Saxon Metal, Inc.**
Source Location: 2230 Indianapolis Boulevard, Whiting, Indiana 46394
County: Lake
SIC Code: 3341 – Furnaces and Kettles for die cast metal smelting
Operation Permit No.: **MSOP 089-11411-00262**
Permit Reviewer: Debra Malone, HDEM

On September 18, 2000, the Hammond Department of Environmental Management (HDEM) had a notice published in the Times, Hammond, Indiana, stating that Saxon Metal, Inc. had applied for a Minor Source Operating Permit to operate a stationary secondary nonferrous metals plant. The notice also stated that HDEM proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed. No comments were made during this public notice period.

However, on October 25, 2000, the Indiana Department of Environmental Management – Northwest Office asked that the following revisions be made to the permit for clarification purposes (bolded language has been added, the language with a line through it has been deleted). The Table Of Contents has also been modified to reflect these changes.

Section C (Source Operation Conditions) of the MSOP

1. On page 8 of 25 (now renumbered page 8 of 23), Condition C. 8 Opacity, section (b) the parenthesis has been moved.

C.8 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of twenty percent (20%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

2. On page 9 of 25 (now renumbered page 9 of 23), Condition C.11 Performance Testing, section (a), last paragraph, the word address has been changed to addresses.

C.11 Performance Testing [326 IAC 3-6]

- (a) Compliance testing on new emissions units shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up, if specified in Section D of this approval. All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM-OAM.

A test protocol, except as provided elsewhere in this permit, 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

and

Hammond Department of Environmental Management
5925 Calumet Avenue – Room 304
Hammond, Indiana 46320

no later than thirty-five (35) days prior to the intended test date. The Permittee shall submit a notice of the actual test date to the above addresses so that it is received at least two weeks prior to the test date.

- (b) All test reports must be received by IDEM-OAM and HDEM within forty-five (45) days after the completion of the testing. An extension may be granted by the IDEM-OAM and HDEM, if the source submits to IDEM-OAM and HDEM, a reasonable written explanation within five (5) days prior to the end of the initial forty-five (45) day period.

The documentation submitted by the Permittee does not require certification by the “authorized individual” as defined by 326 IAC 2-1.1-1.

3. On page 10 of 25 (now renumbered page 10 of 23), Condition C.14 Pressure Gauge Specifications has been added and the conditions following have been renumbered. The Table Of Contents has also been modified.

C.14 Pressure Gauge Specifications [326 IAC 2-1.1-11]

Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ($\pm 2\%$) of full scale.

4. For clarification, pursuant to 326 IAC 1-6-2 (a) Records; notice of malfunction, A record shall be kept 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 and such records shall be retained for a period of three (3) years and shall be made available to the commissioner upon request.

On page 11 of 25 (now page 11 of 23) Condition C.16 (now C.17) Malfunctions Report will remain unchanged.

5. Annual Compliance Certifications should be sufficient for sources less than Title V thresholds. Therefore, upon further evaluation the Semi-annual Compliance Monitoring Report on page 22 of 25 has been deleted along with adjusting the Table of Contents. On page 14 of 25 (now renumbered page 14 of 23) Condition C.20 (now C.21) General Reporting Requirements has also been modified as follows:

C.201 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

~~(a) To affirm that the source has met all the compliance monitoring requirements stated in this permit the source shall submit a Semi-annual Compliance Monitoring Report. Any deviation from the requirements and the date(s) of each deviation must be reported. The Compliance Monitoring Report shall include the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).~~

~~(ab) The report required in (a) of this condition and **Any** reports required by conditions in Section D of this permit 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

and

Hammond Department of Environmental Management
5925 Calumet Avenue – Room 304
Hammond, Indiana 46320

~~(be) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM-OAM and HDEM on or before the date it is due.~~

~~(d) Unless otherwise specified in this permit, any semi-annual report shall be submitted within thirty (30) days of the end of the reporting period. The report does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).~~

~~(e) All instances of deviations must be clearly identified in such reports. A reportable deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit or a rule. It does not include:~~

~~(1) An excursion from compliance monitoring parameters as identified in Section D of this permit unless tied to an applicable rule or limit; or~~

~~(2) — A malfunction as described in 326 IAC 1-6-2; or~~

~~(3) — Failure to implement elements of the Preventive Maintenance Plan unless lack of maintenance has caused or contributed to a deviation.~~

~~(4) — Failure to make or record information required by the compliance monitoring provisions of Section D unless such failure exceeds 5% of the required data in any calendar quarter.~~

~~A Permittee's failure to take the appropriate response step when an excursion of a compliance monitoring parameter has occurred or failure to monitor or record the required compliance monitoring is a deviation.~~

~~(f) — Any corrective actions or response steps taken as a result of each deviation must be clearly identified in such reports.~~

~~(cg)~~ The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period.

6. On page 15 of 25 (now page 14 of 23), C.21 (now C.22) Annual Notification submittal date has been changed from March 1 to April 15 to coincide with the other Lake County sources' submittal date.

C.242 Annual Notification [326 IAC 2-6.1-5(a)(5)]

(a) Annual notification shall be submitted to the Office of Air Management and HDEM stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.

(b) Noncompliance with any condition must be specifically identified. If there are any permit conditions or requirements for which the source is not in compliance at any time during the year, the Permittee must provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be, achieved. The notification must be signed by an authorized individual.

(c) The annual notice shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in the format attached no later than ~~March 4~~ **April 15** of each year to:

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

and

Hammond Department of Environmental Management
5925 Calumet Avenue – Room 304
Hammond, Indiana 46320

(d) The notification shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM-OAM and HDEM on or before the date it is due.

Section D (Emissions Unit Operation Conditions) of the MSOP

1. On page 16 of 25 (now page 15 of 23) Condition D.1.4 Preventative Maintenance Plan has been revised for clarification purposes to include all units.

D.1.4 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section C - Preventive Maintenance Plan, of this permit, is required for ~~thisese~~ emissions units and any control devices.

2. On page 16 of 25 (now page 15 of 23) Condition D.1.5 Testing Requirements has been revised for clarification purposes to include all units, HDEM's authority, and to specify the Condition D.1.1.

D.1.5 Testing Requirements [326 IAC 2-1.1-11]

The Permittee is not required to test ~~thisese~~ emissions units by this permit. However, IDEM or HDEM may require compliance testing when necessary to determine if the emissions units ~~isare~~ are in compliance. If testing is required by IDEM or HDEM compliance with the PM limit specified in Condition D.1.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

3. On page 17 of 25 (now page 16 of 23), Condition D.1.8 Parametric Monitoring has been revised as follows to correct the pressure drop range.

D.1.8 Parametric Monitoring

The Permittee shall record the total static pressure drop across the collector used in conjunction with the American Air Bag Filter Dust Collector System, at least once weekly when the American Air Bag Filter Dust Collector System is in operation when venting to the atmosphere. Unless operated under condition for which the Compliance Response Plan specifies otherwise, the pressure drop across the collector shall be maintained within the range of 0.5 and 2.5 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading.

The instrument used for determining the pressure shall comply with Section C – Pressure Gauge Specifications, of this permit, shall be subject to approval by IDEM-OAM and HDEM and shall be calibrated at least once every six (6) months.

4. On page 17 of 25, (now page 16 of 23) Condition D.1.9 Baghouse Inspections has been revised to remove the following statement.

D.1.9 Baghouse Inspections

An inspection shall be performed each calender quarter of all bags controlling the Zinc Die Cast and Solder Lead Alloying Process when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. ~~Inspections are optional when venting to the indoors.~~ All defective bags shall be replaced.

5. Title V section D conditions were carried over into the MSOP model. Section B – Emergency Provisions are within the Title V model but not the MSOP model. On page 17 of 25, (now page 16 of 23) Condition D.1.10 Broken or Failed Bag Detection has been revised as follows to remove the reference of Emergency Provisions.

D.1.10 Broken or Failed Bag Detection

In the event that bag failure has been observed:

- (a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion. Operations may continue only if the event qualifies as **a malfunction** ~~an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B – Emergency Provisions).~~
- (b) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as **a malfunction** ~~an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B – Emergency Provisions).~~

**Indiana Department of Environmental Management
Office of Air Management
and
Hammond Department of Environmental Management**

Technical Support Document (TSD) for a Minor Source Operating Permit

Source Background and Description

Source Name:	Saxon Metal, Inc.
Source Location:	2230 Indianapolis Boulevard Whiting, Indiana 46394
County:	Lake
SIC Code:	3341 Secondary Nonferrous Metals
Operation Permit No.:	089-11411-00262
Permit Reviewer:	Debra Malone, HDEM

The Hammond Department of Environmental Management (HDEM) has reviewed an application from Saxon Metal, Inc. relating to the operation of a secondary nonferrous metals operation.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units and pollution control devices:

- (a) One (1) Zinc Die Cast and Solder Lead Alloying Process: The Solder Lead Alloying Process utilizes Furnace F-1, with a maximum design capacity of 0.375 tons per hour and Melt Kettles K6 and K10 – K17, with a maximum design rate of 1.6 tons per hour, combined and sometimes Furnace F-3. The Zinc Die Cast Alloying Process utilizes Furnaces F-2 and F-3, with a maximum design rate of 0.75 tons per hour, combined and Furnace F-1. The Sweat Furnaces use Holding Kettles K-18, K-19, and K-20, respectively. Zinc Die Cast Refining Kettles K2 – K4, with a maximum design rate of 1.5 tons per hour, combined are also used. The Furnaces and Kettles use natural gas only and have a combined maximum design capacity of 23 MMBtu/hr. Particulate emissions from the furnaces and melt kettles are drafted to an American Air Bag Filter Dust Collector System.

Unpermitted Emission Units and Pollution Control Equipment

There are no new unpermitted facilities operating at this source during this review process.

Existing Approvals

The source has been operating under previous approvals including, but not limited to, the following:

- (a) Local Operation Permit # 01601, issued on February 11, 2000.

All conditions from previous approvals were incorporated into this permit.

Stack Summary

Stack ID	Operation	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature (°F)
S-BH	Baghouse	45	2.83	25,000	150
S-02	Kettle	20	1	335	600
S-03	Kettle	20	1	335	600
S-04	Kettle	20	1.5	835	600
S-06	Kettle	20	1.5	835	600
S-12	Kettle	20	0.75	170	600
S-13	Kettle	20	0.75	170	600
S-14	Kettle	20	1	420	600
S-18	Holding Kettle	20	0.5	46	600
S-19	Holding Kettle	20	0.5	46	600
S-20	Holding Kettle	20	0.5	65	600

Enforcement Issue

There are no enforcement actions pending.

Recommendation

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

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

An application for the purposes of this review was received on October 5, 1999.

Emission Calculations

See Appendix A of this document for detailed emissions calculations (three (3) pages).

Potential To Emit

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as “the maximum capacity of a stationary source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA.”

Pollutant	Potential To Emit (tons/year)
PM	65.672
PM-10	71.489
SO ₂	0.060
VOC	12.380
CO	2.116
NO _x	10.074

HAP's	Potential To Emit (tons/year)
Lead	4.414
TOTAL	4.414

This table shows potential emissions (before controls) at 8760 for the entire source.

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of all pollutants is not equal to or greater than 100 tons per year. The potential to emit (as defined in 326 IAC 2-7-1(29)) of VOCs is not equal to or greater than 25 tons per year. Therefore, the source is not subject to the provisions of 326 IAC 2-7.
- (b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of Pb is not equal to or greater than 100 tons per year. Therefore, the source is not subject to the provisions of Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.
- (c) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is not equal to or greater than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination HAPs is not greater than or equal to twenty-five (25) tons per year. Therefore, the source is not subject to the provisions of 326 IAC 2-7.

Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 1999 HDEM emission data.

Pollutant	Actual Emissions (tons/year)
PM	0.075
PM-10	0.078
SO ₂	0.006
VOC	1.423
CO	0.214
NO _x	1.020
HAP (Lead)	0.003

No previous emission data (emission statement) has been received from the source.

Limited Potential to Emit

The table below summarizes the total potential to emit, reflecting all limits, of the significant emission units.

Process/facility	Limited Potential to Emit (tons/year)						
	PM	PM-10	SO ₂	VOC	CO	NO _x	HAPs (Lead)
Zinc Die Cast & Solder Lead Alloying Process	18.654	18.654	0.060	12.380	2.116	10.074	0.052
Total Emissions	18.654	18.654	0.060	12.380	2.116	10.074	0.052

This table shows the allowable emissions for each pollutant for the entire source. The PM allowable emissions limit is based on 326 IAC 6-1-2(a) – 0.03 gr/dscf. PM10 allowable emissions limit is set equal to the PM allowable emission limit pursuant to the Hammond Air Quality Control Ordinance No. 3522 (as amended). SO₂, VOC, CO and NO_x allowable emissions limits were based on the Hammond Air Quality Control Ordinance No. 3522 (as amended). The Pb allowable emission limit is set equal to the potential emissions after controls.

County Attainment Status

The source is located in Lake County.

Pollutant	Status
PM-10	Moderate Nonattainment
SO ₂	Primary Nonattainment
NO ₂	Unclassifiable/Attainment
Ozone	Severe Nonattainment
CO	Unclassifiable/Attainment
Lead	Attainment

- (a) Volatile organic compounds (VOC) and oxides of nitrogen (NO_x) are precursors for the formation of ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to the ozone standards. Lake County has been designated as nonattainment for ozone. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.
- (b) Lake County has been classified as nonattainment for particulate matter less than 10 microns (PM-10), sulfur dioxide (SO₂), and ozone. Therefore, these emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.
- (c) Fugitive Emissions
 Saxon Metal, Inc. is a secondary metal production plant not emitting or having the potential to emit one hundred (100) tons per year or more of any pollutant subject to regulation under the Clean Air Act. Since this type of operation is not applicable under 326 IAC 2-2, 40 CFR 52.21 or 326 IAC 2-3 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

Source Status

Existing Source PSD, Part 70, or FESOP 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	0.657
PM10	0.715
SO ₂	0.060
VOC	12.380
CO	2.116
NO _x	10.074

This table shows potential emissions (after controls) at 8760 for the entire source.

- (a) This existing source is not a major stationary source because no nonattainment regulated pollutant is emitted at a rate of 100 tons per year, and it is not in one of the 28 listed source categories.
- (b) These emissions were based on information obtained from the source's 1999 emission statement submitted on April 14, 2000.

Part 70 Permit Determination

326 IAC 2-7 (Part 70 Permit Program)

This existing source is not subject to the Part 70 Permit requirements because the potential to emit (PTE) of:

- (a) each criteria pollutant is less than 100 tons per year,
- (b) a single hazardous air pollutant (HAP) is less than 10 tons per year, and
- (c) any combination of HAPs is less than 25 tons per year.

This status is based on all the air approvals issued to the source. This status has been verified by HDEM.

Federal Rule Applicability

- (a) This facility is not subject to the requirements of the New Source Performance Standard, 326 IAC 12, (40 CFR 60.120, Subpart L – Standards of Performance for Secondary Lead Smelters. A *Secondary lead smelter*, by definition means any facility producing lead from a leadbearing scrap material by smelting to the metallic form. *Lead* being elemental lead or alloys in which the predominant component is lead. The affected facility, Furnace F-3, which was constructed after June 11, 1973 is not used to produce leadbearing products which the predominant component is lead, therefore the affected facility is not applicable to Subpart L.
- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR art 63) applicable to this source.

State Rule Applicability - Entire Source

326 IAC 1-6-3 (Preventive Maintenance Plan)

The source has submitted a Preventive Maintenance Plan (PMP) on October 1, 1998. This PMP has been verified to fulfill the requirements of 326 IAC 1-6-3 (Preventive Maintenance Plan).

326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting), because it has the potential to emit more than ten (10) tons per year of VOC and NOx in Lake County. Pursuant to this rule, the owner/operator of the source must annually submit an emission statement for the source. The annual statement must be received by April 15th of each year and contain the minimum requirement as specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8)(Emission Statement Operating Year).

The source is in compliance with the required emission statement submittals.

326 IAC 5-1 (Opacity Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of twenty percent (20%) any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

No violations of the opacity standards have been observed at this source.

State Rule Applicability - Individual Facilities

326 IAC 6-1-2 (Particulate emission limitations; fuel combustion steam generators, asphalt concrete plant, grain elevators, foundries, mineral aggregate operations; modification by commissioner)

Pursuant to 326 IAC 6-1-2(a), General sources: Facilities not limited by subsections (b) through (g) of this section shall not allow or permit discharge to the atmosphere of any gases which contain particulate matter in excess of 0.07 gram per dry standard cubic meter (g/dscm) (0.03 grain per dry standard cubic foot (dscf)). Where this limitation is more stringent than the applicable limitations of subsections (b) through (g) of this section, for facilities in existence prior to the applicability dates, or of a size not applicable to said subsections, emission limitations for those facilities shall be determined by the commissioner and will be established in accordance with the procedures set forth in subsection (h) of this section.

Compliance with these limitations can be shown by the use of control equipment.

Local Rule Applicability

Hammond Air Quality Control Ordinance No. 3522 (as amended)

Emissions from the combustion of natural gas are governed by the Hammond Air Quality Control Ordinance No. 3522 (as amended) for the following pollutants: Particulate Matter (PM), Sulfur Dioxide (SO₂), Volatile Organic Compound (VOC), Carbon Monoxide (CO), and Nitrogen Oxide (NO_x).

Air Toxic Emissions

Indiana presently requests applicants to provide information on emissions of the 188 hazardous air pollutants (HAPs) 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) Part 70 Application Form GSD-08.

- (a) This source will emit levels of air toxics less than those which constitute a major source according to Section 112 of the 1990 Clean Air Act Amendments.
- (b) See attached calculations for detailed air toxic calculations. (three (3) pages).

Conclusion

The operation of this secondary nonferrous metals operation shall be subject to the conditions of the attached proposed **Minor Source Operating Permit 089-11411-00262**.

Appendix A: Source Emissions Calculations

ALABAMA POWER LAW (CDS)/EIS CALCULATIONS

Saxon Metal, Inc.
2230 Indianapolis Boulevard
Whiting, Indiana 46394

PLANT ID NO: 089-00262
INSP DATE: 6/28/00
CALC DATE: 4/28/00

CALCULATIONS BY: Ronald Holder
Debra Malone (6/14/00)

YEAR OF DATA: MSOP/1999

NO. OF POINTS: 1

NOTES

EF: EMISSION FACTOR MDR: MAXIMUM DESIGN RATE Ts: STACK DISCHARGE TEMPERATURE
CE: CONTROL EFFICIENCY MDC: MAXIMUM DESIGN CAPACITY UNITS FOR EMISSIONS ARE IN (TPY) EXCEPT WHERE GIVEN

Zinc Die Cast and Solder Lead Alloying Process

new MDRs from Stack Test of 3/16/98

Solder and Lead Alloys
Sweat Furnace F-1/F-3

zinc die cast,
solder and 20% lead

MDR (T/hr): 0.375
YEARLY PROD (T/yr): 214

STACK ID (DIAM:HEIGHT): (2.4': 10')
FLOWRATE (ACFM): 17500
Ts(°F): 100

CNTRL DEV: American Air Bag Filter Dust Collector System (99% CE)

PERMITTED OPERATING HRS: 8760 hr/yr

SCC NO. 3-04-004-05			POTENTIAL EMISSIONS					
POLLUTANT	EF(LB/T)	CE (%)	BEFORE CONTROLS			AFTER CONTROLS		
			(lbs/hr)	(lbs/day)	(TPY)	(lbs/hr)	(TPY)	(gr/dscf)
PM	13	0.99	4.8750	117.0000	21.3525	0.0488	0.2135	0.0003
PM10	13	0.99	4.8750	117.0000	21.3525	0.0488	0.2135	0.0003
SOx	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A
NOx	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A
VOC	2.4	0	0.9000	21.6000	3.9420	0.9000	3.9420	N/A
CO	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A
LEAD	2.6	0.99	0.9750	23.4000	4.2705	0.0098	0.0427	N/A

COMPANY ACTUAL	
BEFORE CONTROLS	AFTER CONTROLS
1.3894	0.0139
1.3894	0.0139
0.0000	0.0000
0.0000	0.0000
0.2565	0.2565
0.0000	0.0000
0.2779	0.0028

Solder Kettle Refining (K6, K10-17)

MDR (T/hr): 1.6
YEARLY PROD (T/yr): 641

STACK ID (DIAM:HEIGHT): (2.4': 10')
FLOWRATE (ACFM): 17500
Ts(°F): 100

CNTRL DEV: American Air Bag Filter Dust Collector System (99% CE)

PERMITTED OPERATING HRS: 8760 hr/yr

SCC NO. 3-04-004-14			POTENTIAL EMISSIONS					
POLLUTANT	EF(LB/T)	CE (%)	BEFORE CONTROLS			AFTER CONTROLS		
			(lbs/hr)	(lbs/day)	(TPY)	(lbs/hr)	(TPY)	(gr/dscf)
PM	0.002	0.99	0.0032	0.0768	0.0140	0.0000	0.0001	0.0000
PM10	0.002	0.99	0.0032	0.0768	0.0140	0.0000	0.0001	0.0000
SOx	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A
NOx	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A
VOC	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A
CO	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A
LEAD	0.0006	0	0.0010	0.0230	0.0042	0.0010	0.0042	N/A

COMPANY ACTUAL	
BEFORE CONTROLS	AFTER CONTROLS
0.0006	0.0000
0.0006	0.0000
0.0000	0.0000
0.0000	0.0000
0.0000	0.0000
0.0000	0.0000
0.0002	0.0002

Solder & Lead Alloy Casting

casting is from kettles

MDR (T/hr): 1.6

STACK ID (DIAM:HEIGHT): (2.4': 10')

YEARLY PROD (T/yr): 641

FLOWRATE (ACFM): 17500

CNTRL DEV: American Air Bag Filter Dust Collector System (99% CE)

Ts(*F): 100

PERMITTED OPERATING HRS: 8760 hr/yr

SCC NO. 3-04-004-09			POTENTIAL EMISSIONS					
POLLUTANT	EF(LB/T)	CE (%)	BEFORE CONTROLS			AFTER CONTROL		
			(lbs/hr)	(lbs/day)	(TPY)	(lbs/hr)	(TPY)	(gr/dscf)
PM	0.04	0.99	0.0640	1.5360	0.2803	0.0006	0.0028	0.0000
PM10	0.87	0.99	1.3920	33.4080	6.0970	0.0139	0.0610	0.0001
SOx	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A
NOx	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A
VOC	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A
CO	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A
LEAD	0.01	0.99	0.0160	0.3840	0.0701	0.0002	0.0007	N/A

COMPANY AC	
BEFORE CONTROLS	AFTER CONTROLS
0.0128	0.0001
0.2789	0.0028
0.0000	0.0000
0.0000	0.0000
0.0000	0.0000
0.0000	0.0000
0.0032	0.0000

**Zinc Die Cast Alloys
Furnaces F-2 and F-3**

zinc die cast
F-1 also used for zinc

MDR (T/hr): 0.75

STACK ID (DIAM:HEIGHT): (2.4': 10')

YEARLY PROD (T/yr): 925

FLOWRATE (ACFM): 17500

CNTRL DEV: American Air Bag Filter Dust Collector System (99% CE)

Ts(*F): 100

PERMITTED OPERATING HRS: 8760 hr/yr

SCC NO. 3-04-008-28			POTENTIAL EMISSIONS					
POLLUTANT	EF(LB/T)	CE (%)	BEFORE CONTROLS			AFTER CONTROLS		
			(lbs/hr)	(lbs/day)	(TPY)	(lbs/hr)	(TPY)	(gr/dscf)
PM	13	0.99	9.7500	234.0000	42.7050	0.0975	0.4271	0.0007
PM10	13	0.99	9.7500	234.0000	42.7050	0.0975	0.4271	0.0007
SOx	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A
NOx	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A
VOC	2.4	0	1.8000	43.2000	7.8840	1.8000	7.8840	N/A
CO	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A
LEAD	0	0.99	0.0000	0.0000	0.0000	0.0000	0.0000	N/A

COMPANY ACTUAL	
BEFORE CONTROLS	AFTER CONTROLS
6.0125	0.0601
6.0125	0.0601
0.0000	0.0000
0.0000	0.0000
1.1100	1.1100
0.0000	0.0000
0.0000	0.0000

Zinc Die Cast Kettle Refining (K-2, K-3, & K-4)

MDR (T/hr): 1.5

STACK ID (DIAM:HEIGHT): (2.4': 10')

YEARLY PROD (T/yr): 925

FLOWRATE (ACFM): 17500

CNTRL DEV: American Air Bag Filter Dust Collector System

Ts(*F): 100

PERMITTED OPERATING HRS: 8760 hr/yr

SCC NO. 3-04-004-14			POTENTIAL EMISSIONS					
POLLUTANT	EF(LB/T)	CE (%)	BEFORE CONTROLS			AFTER CONTROLS		
			(lbs/hr)	(lbs/day)	(TPY)	(lbs/hr)	(TPY)	(gr/dscf)
PM	0.002	0.99	0.0030	0.0720	0.0131	0.0000	0.0001	0.0000
PM10	0.002	0.99	0.0030	0.0720	0.0131	0.0000	0.0001	0.0000
SOx	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A
NOx	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A
VOC	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A
CO	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A
LEAD	0.0006	0	0.0009	0.0216	0.0039	0.0009	0.0039	N/A

COMPANY ACTUAL	
BEFORE CONTROLS	AFTER CONTROLS
0.0009	0.0000
0.0009	0.0000
0.0000	0.0000
0.0000	0.0000
0.0000	0.0000
0.0000	0.0000
0.0003	0.0003

Zinc Die Cast Alloy Casting

casting is from kettles

MDR (T/hr): 1.5

YEARLY PROD (T/yr): 925

STACK ID (DIAM:HEIGHT): (2.4': 10')

FLOWRATE (ACFM): 17500

CNTRL DEV: American Air Bag Filter Dust Collector System

Ts(°F): 100

PERMITTED OPERATING HRS: 8760 hr/yr

SCC NO. 3-04-008-73			POTENTIAL EMISSIONS					
POLLUTANT	EF(LB/T)	CE (%)	BEFORE CONTROLS			AFTER CONTROLS		
			(lbs/hr)	(lbs/day)	(TPY)	(lbs/hr)	(TPY)	(gr/dscf)
PM	0.015	0.99	0.0225	0.5400	0.0986	0.0002	0.0010	0.0000
PM10	0.015	0.99	0.0225	0.5400	0.0986	0.0002	0.0010	0.0000
SOx	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A
NOx	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A
VOC	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A
CO	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A
LEAD	0.01	0.99	0.0150	0.3600	0.0657	0.0002	0.0007	N/A

COMPANY ACTUAL	
BEFORE CONTROLS	AFTER CONTROLS
0.0069	0.0001
0.0069	0.0001
0.0000	0.0000
0.0000	0.0000
0.0000	0.0000
0.0000	0.0000
0.0046	0.0000

All Process Fuel Use (Natural Gas Only)

Including Holding Kettles (K-18, K-19, and K-20)

MDC (MMBtu/hr): 23

HEAT CONTENT (Btu/cft): 1000

STACK ID (DIAM:HEIGHT): (2.4': 10')

MDR (MMcft/hr): 0.023

QTY BURNED (MMcft/yr): 20.40

FLOWRATE (ACFM): 17500

CNTRL DEV: American Air Bag Filter Dust Collector System (99% CE)

Ts(°F): 100

PERMITTED OPERATING HRS: 8760 hr/yr

AP 42 section 1.4 SCC NO. 1-02-006-03			POTENTIAL EMISSIONS					
POLLUTANT	EF(lbs/mmcf)	CE (%)	BEFORE CONTROLS			AFTER CONTROLS		
			(lbs/hr)	(lbs/day)	(TPY)	(lbs/hr)	(TPY)	(gr/dscf)
PM	12	0.99	0.2760	6.6240	1.2089	0.0028	0.0121	0.0000
PM10	12	0.99	0.2760	6.6240	1.2089	0.0028	0.0121	0.0000
SOx	0.6	0	0.0138	0.3312	0.0604	0.0138	0.0604	N/A
NOx	100	0	2.3000	55.2000	10.0740	2.3000	10.0740	N/A
VOC	5.5	0	0.1265	3.0360	0.5541	0.1265	0.5541	N/A
CO	21	0	0.4830	11.5920	2.1155	0.4830	2.1155	N/A
LEAD	0.0005	0	0.0000	0.0003	0.0001	0.0000	0.0001	N/A

COMPANY ACTUAL	
BEFORE CONTROLS	AFTER CONTROLS
0.1224	0.0012
0.1224	0.0012
0.0061	0.0061
1.0200	1.0200
0.0561	0.0561
0.2142	0.2142
0.0000	0.0000

Plant Total: Zinc Die Cast and Solder Lead Alloying Process

326 IAC 6-1-2 (a)

0.03 gr/dscf

POLLUTANT	BEFORE CONTROLS			AFTER CONTROLS			ALLOWABLE		COMPANY ACTUAL	
	(lbs/hr)	(lbs/day)	(TPY)	(lbs/hr)	(TPY)	(gr/dscf)	(lbs/hr)	(TPY)	BEFORE CONTROLS	AFTER CONTROLS
PM	14.994	359.849	65.672	0.150	0.657	0.001	4.259	18.654	7.546	0.075
PM10	16.322	391.721	71.489	0.163	0.715	0.001	4.259	18.654	7.812	0.078
SOx	0.014	0.331	0.060	0.014	0.060	#VALUE!	0.000	0.000	0.006	0.006
NOx	2.300	55.200	10.074	2.300	10.074	#VALUE!	0.000	0.000	1.020	1.020
VOC	2.827	67.836	12.380	2.827	12.380	#VALUE!	0.000	0.000	1.423	1.423
CO	0.483	11.592	2.116	0.483	2.116	#VALUE!	0.000	0.000	0.214	0.214
LEAD	1.008	24.189	4.414	0.012	0.052	#VALUE!	0.000	0.000	0.286	0.003

*This source is class "Minor" according to the potential emissions.

326 IAC 6-1-2 (a)

0.03 gr/dscf