



Thomas M. McDermott, Jr.
Mayor

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

CITY OF HAMMOND

RONALD L. NOVAK
Director

MINOR SOURCE OPERATING PERMIT RENEWAL

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY**

and

**HAMMOND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
AIR POLLUTION CONTROL DIVISION**

**LaSalle Steel Company
1412 150th Street
Hammond, Indiana 46327**

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

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a MSOP under 326 IAC 2-6.1.

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 089-21749-00220	
Issued by: Original signed by: Ronald L. Novak, Director Hammond Department of Environmental Management	Issuance Date: <u>June 8, 2007</u> Expiration Date: <u>June 8, 2012</u>

TABLE OF CONTENTS

A	SOURCE SUMMARY	6
A.1	General Information [326 IAC 2-5.1-3(c)] [326 IAC 2-6.1-4(a)]	
A.2	Emission Units and Pollution Control Equipment Summary	
B	GENERAL CONDITIONS	8
B.1	Definitions [326 IAC 2-1.1-1]	
B.2	Permit Term [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]	
B.3	Term of Conditions [326 IAC 2-1.1-9.5]	
B.4	Enforceability	
B.5	Severability	
B.6	Property Rights or Exclusive Privilege	
B.7	Duty to Provide Information	
B.8	Certification	
B.9	Annual Notification [326 IAC 2-6.1-5(a)(5)]	
B.10	Preventive Maintenance Plan [326 IAC 1-6-3]	
B.11	Prior Permits Superseded [362 IAC 2-1.1-9.5]	
B.12	Termination of Right to Operate [326 IAC 2-6.1-7(a)]	
B.13	Permit Renewal [326 IAC 2-6.1-7]	
B.14	Permit Amendment or Revision [326 IAC 2-5.1-3(e)(3)][326 IAC 2-6.1-6]	
B.15	Source Modification Requirement	
B.16	Inspection and Entry [326 IAC 2-5.1-3(e)(4)(B)][326 IAC 2-6.1-5(a)(4)][IC 13-14-2-2] [IC 13-17-3-2][IC 13-30-3-1]	
B.17	Transfer of Ownership or Operational Control [326 IAC 2-6.1-6]	
B.18	Annual Fee Payment [326 IAC 2-1.1-7]	
B.19	Credible Evidence [326 IAC 1-1-6]	
C	SOURCE OPERATION CONDITIONS	13
	Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]	
C.1	Permit Revocation [326 IAC 2-1.1-9]	
C.2	Opacity [326 IAC 5-1]	
C.3	Open Burning [326 IAC 4-1][IC 13-17-9]	
C.4	Incineration [326 IAC 4-2][326 IAC 9-1-2]	
C.5	Fugitive Dust Emissions [326 IAC 6-4]	
C.6	Fugitive Dust Emissions [326 IAC 6.8-10-3]	
C.7	Asbestos Abatement Projects [326 IAC 14-10][326 IAC 18][40 CFR 61, Subpart M]	
	Testing Requirements [326 IAC 2-6.1-5(a)(2)]	
C.8	Performance Testing [326 IAC 3-6]	
	Compliance Requirements [326 IAC 2-1.1-11]	
C.9	Compliance Requirements [326 IAC 2-1.1-11]	
	Compliance Monitoring Requirements [326 IAC 2-6.1-5(a)(2)]	
C.10	Compliance Monitoring [326 IAC 2-1.1-11]	
C.11	Monitoring Methods [326 IAC 3][40 CFR 60][40 CFR 63]	
C.12	Instrument Specifications [326 IAC 2-1.1-11]	
	Corrective Actions and Response Steps	
C.13	Response to Excursions or Exceedances	
C.14	Actions Related to Noncompliance Demonstrated by a Stack Test	
	Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]	
C.15	Malfunctions Report [326 IAC 1-6-2]	
C.16	Emission Statement [326 IAC 2-6]	
C.17	Annual Emission Inventory [Hammond Ordinance No. 7102]	
C.18	General Record Keeping Requirements [326 IAC 2-6.1-5]	
C.19	General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]	

D.1 EMISSIONS UNIT OPERATION CONDITIONS
- One (1) Pangborn Mechanical Coil Descaler..... 20

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

- D.1.1 Particulate Matter (PM) [326 IAC 6.8-1-2(a)]
- D.1.2 Preventive Maintenance Plan [326 IAC 1-6-3]

Compliance Determination Requirements

- D.1.3 Particulate Control

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

- D.1.4 Visible Emissions Notations
- D.1.5 Parametric Monitoring
- D.1.6 Broken or Failed Filter Detection

Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]

- D.1.7 Record Keeping Requirements

D.2 EMISSIONS UNIT OPERATION CONDITIONS
- One (1) Fennel Corporation No. 3 Roller Hearth Furnace 22

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

- D.2.1 Particulate Matter (PM), Sulfur Dioxide (SO₂), Nitrogen Oxide (NO_x), Volatile Organic Compound (VOC), and Carbon Monoxide (CO) [Hammond Air Quality Control Ordinance No. 3522 (as amended)]
- D.2.2 Preventive Maintenance Plan [326 IAC 1-6-3]

D.3 EMISSIONS UNIT OPERATION CONDITIONS
- Four (4) Wire Bay Space Heaters 23

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

- D.3.1 Particulate Matter (PM), Sulfur Dioxide (SO₂), Nitrogen Oxide (NO_x), Volatile Organic Compound (VOC), and Carbon Monoxide (CO) [Hammond Air Quality Control Ordinance No. 3522 (as amended)]
- D.3.2 Preventive Maintenance Plan [326 IAC 1-6-3]

D.4 EMISSIONS UNIT OPERATION CONDITIONS
- One (1) Wheelabrator No. 1 (East) Shot Blasting Operation and
One (1) Wheelabrator No. 2 (West) Shot Blasting Operation 24

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

- D.4.1 Particulate Matter less than 10 microns (PM₁₀) [326 IAC 6.8-2-20]
- D.4.2 Preventive Maintenance Plan [326 IAC 1-6-3]

Compliance Determination Requirements

- D.4.3 Testing Requirements [326 IAC 2-1.1-11]
- D.4.4 Particulate Control

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

- D.4.5 Visible Emissions Notations
- D.4.6 Parametric Monitoring
- D.4.7 Broken or Failed Filter Detection

Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]

- D.4.8 Record Keeping Requirements

D.5 EMISSIONS UNIT OPERATION CONDITIONS
- One (1) No. 10 Induction Furnace..... 27

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

- D.5.1 Particulate Matter less than 10 microns (PM10) [326 6.8-2-20]
- D.5.2 Preventive Maintenance Plan [326 IAC 1-6-3]

Compliance Determination Requirements

- D.5.3 Particulate Control

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

- D.5.4 Visible Emissions Notations
- D.5.5 Parametric Monitoring
- D.5.6 Broken or Failed Filter Detection

Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]

- D.5.7 Record Keeping Requirements

D.6 EMISSIONS UNIT OPERATION CONDITIONS
- One (1) Mammoth Space Heater, Shipping Bldg. East..... 29

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

- D.6.1 Particulate Matter (PM), Sulfur Dioxide (SO₂), Nitrogen Oxide (NO_x), Volatile Organic Compound (VOC), and Carbon Monoxide (CO) [Hammond Air Quality Control Ordinance No. 3522 (as amended)]
- D.6.2 Preventive Maintenance Plan [326 IAC 1-6-3]

D.7 EMISSIONS UNIT OPERATION CONDITIONS
- One (1) Mammoth Space Heater, Shipping Bldg. West..... 30

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

- D.7.1 Particulate Matter (PM), Sulfur Dioxide (SO₂), Nitrogen Oxide (NO_x), Volatile Organic Compound (VOC), and Carbon Monoxide (CO) [Hammond Air Quality Control Ordinance No. 3522 (as amended)]
- D.7.2 Preventive Maintenance Plan [326 IAC 1-6-3]

D.8 EMISSIONS UNIT OPERATION CONDITIONS
- Three (3) Space Heaters, Building No. 70 31

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

- D.8.1 Particulate Matter (PM), Sulfur Dioxide (SO₂), Nitrogen Oxide (NO_x), Volatile Organic Compound (VOC), and Carbon Monoxide (CO) [Hammond Air Quality Control Ordinance No. 3522 (as amended)]
- D.8.2 Preventive Maintenance Plan [326 IAC 1-6-3]

D.9 EMISSIONS UNIT OPERATION CONDITIONS
- Two (2) Dayton Space Heaters, Building No. 60 32

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

- D.9.1 Particulate Matter (PM), Sulfur Dioxide (SO₂), Nitrogen Oxide (NO_x), Volatile Organic Compound (VOC), and Carbon Monoxide (CO) [Hammond Air Quality Control Ordinance No. 3522 (as amended)]
- D.9.2 Preventive Maintenance Plan [326 IAC 1-6-3]

D.10 EMISSIONS UNIT OPERATION CONDITIONS
- Nine (9) Space Heat Units 33

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

- D.10.1 Particulate Matter (PM), Sulfur Dioxide (SO₂), Nitrogen Oxide (NO_x), Volatile Organic Compound (VOC), and Carbon Monoxide (CO) [Hammond Air Quality Control Ordinance No. 3522 (as amended)]
- D.10.2 Preventive Maintenance Plan [326 IAC 1-6-3]

D.11 EMISSIONS UNIT OPERATION CONDITIONS
- Coil Drawing Line No. 5..... 34

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

- D.11.1 Particulate Matter (PM) [326 IAC 6.8-1-2(a)]
- D.11.2 Preventive Maintenance Plan [326 IAC 1-6-3]

Compliance Determination Requirements

- D.11.3 Particulate Control

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

- D.11.4 Visible Emissions Notations
- D.11.5 Parametric Monitoring
- D.11.6 Broken or Failed Filter Detection

Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]

- D.11.7 Record Keeping Requirements

D.12 EMISSIONS UNIT OPERATION CONDITIONS
- One (1) Cold Finished Steel Bars from Hot Rolled Bar Process 36

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

- D.12.1 Particulate Matter (PM), Sulfur Dioxide (SO₂), Nitrogen Oxide (NO_x), Volatile Organic Compound (VOC), and Carbon Monoxide (CO) [Hammond Air Quality Control Ordinance No. 3522 (as amended)]
- D.12.2 Preventive Maintenance Plan [326 IAC 1-6-3]

D.13 EMISSIONS UNIT OPERATION CONDITIONS
- One (1) Screw Hearth Line..... 37

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

- D.13.1 Particulate Matter (PM), Sulfur Dioxide (SO₂), Nitrogen Oxide (NO_x), Volatile Organic Compound (VOC), and Carbon Monoxide (CO) [Hammond Air Quality Control Ordinance No. 3522 (as amended)]
- D.13.2 Preventive Maintenance Plan [326 IAC 1-6-3]

Certification..... 38
Annual Notification 39
Malfunction Report..... 40

SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) and the Hammond Department of Environmental Management (HDEM). The information describing the source contained in conditions A.1 and A.2 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 cold finishing of steel shapes operation.

Source Address:	1412 150 th Street, Hammond, Indiana 46327
Mailing Address:	1412 150 th Street, Hammond, Indiana 46327
General Source Phone Number::	(219)853-6233
SIC Code:	3316 – Cold Finishing of Steel Shapes
County Location:	Lake
Source Location Status:	Attainment/Unclassifiable for PM10, SO ₂ , CO, NO ₂ and Lead, Nonattainment area for PM2.5 and 8-hour ozone,
Source Status:	Minor Source Operating Permit Program Minor Source, under PSD and Emission Offset Rules; Minor Source, Section 112 of the Clean Air Act; and Not 1 of 28 Source Categories

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) Pangborn Mechanical Coil Descaler, constructed in 1989, with a maximum descaling capacity of 15 tons of steel coils per hour. Emissions to the atmosphere of oxide scale and steel shot dust are controlled by a Tenkay-Farr Cartridge Dust Collection System and a high performance Riga-Flo 200 Filter Collector which exhausts at one (1) stack, identified as S-2.
- (b) One (1) Fennel Corporation No. 3 Roller Hearth Furnace, constructed in 1979, with a maximum design capacity of 8.0 MMBtu/hr heat input, natural gas-fired, using no control equipment and exhausting at one (1) stack, identified as S-3.
- (c) Four (4) Wire Bay Space Heaters, three (3) with a maximum design capacity of 1.6 MMBtu/hr heat input, constructed in 1979, and one (1) with a maximum design capacity of 0.35 MMBtu/hr heat input, constructed in 1996, (5.15 MMBtu/hr combined), natural gas-fired, using no control equipment, and exhausting inside the building, stack identified as S-4.
- (d) One (1) Wheelabrator No. 1 (East) Shot Blasting Operation and One (1) Wheelabrator No. 2 (West) Shot Blasting Operation, constructed in 1979, maximum rate of steel bars processed through each unit is 15 tons/hr. Particulate emissions of oxide scale and steel shot dust are controlled by a Mikropul Horizontal Cartridge Filter System which exhausts at one (1) stack, identified as S-5.

This Filter System is common to both Wheelabrator No. 1 (East) and Wheelabrator No. 2 (West) Shot Blasting Operations.
- (e) One (1) No. 10 Induction Furnace, constructed in 1979, with a maximum design rate of 1.71 tons/hr. Particulate emissions are controlled by a Uni-wash dust collector efficient in eliminating oily smoke, stack identified as S-6.
- (f) One (1) Mammoth Space Heater, Shipping Building East, constructed in 1979, with a maximum design capacity of 1.6 MMBtu/hr heat input, natural gas-fired, using no control equipment and exhausting inside the building, stack identified as S-7.

- (g) One (1) Mammoth Space Heater, Shipping Building West, constructed in 1979, with a maximum design capacity of 1.6 MMBtu/hr heat input, natural gas-fired, using no control equipment and exhausting inside the building, stack identified as S-8.
- (h) Three (3) Space Heaters, Building No. 70, constructed in 1997, with a combined maximum design capacity of 1.35 MMBtu/hr heat input, natural gas-fired, using no control equipment, and exhausting inside the building, stack identified as S-9.
- (i) Two (2) Dayton Space Heaters, Building No. 60, constructed in 1979, each with a maximum design capacity of 0.35 MMBtu/hr heat input (0.70 MMBtu/hr combined), natural gas-fired, using no control equipment, and exhausting inside the building, stack identified as S-10.
- (j) Nine (9) Space Heat Units, constructed in 1998, identified as follows:
 - (1) One (1) Dravo, Building No. 41, with a maximum design capacity of 1.875 MMBtu/hr heat input.
 - (2) One (1) Dayton, located in the Cutting Fluid Storage Area, with a maximum design capacity of 0.350 MMBtu/hr heat input.
 - (3) One (1) Dayton and One (1) Modine, located in the Storeroom, with a maximum design capacity of 0.350 and 0.2 MMBtu/hr heat input, respectively.
 - (4) One (1) Armstrong, located in the Oil Storage Room, with a maximum design capacity of 0.09 MMBtu/hr heat input.
 - (5) One (1) Dayton, located in the Mfg. Engr. Storeroom, with a maximum design capacity of 0.125 MMBtu/hr heat input.
 - (6) One (1) Engr Bldg Reznor Furnace, with a maximum design capacity of 0.4 MMBtu/hr heat input.
 - (7) One (1) East and One (1) West Penthouse Boiler (Basmor and American Standard), with a maximum design capacity of 0.875 MMBtu/hr and 0.7 MMBtu/hr, respectively.

All nine space heat units are natural gas-fired only. Stack identified as S-11.

- (k) One (1) Coil Drawing Line No. 5, constructed in 1995, which includes uncoiling, pointing, shotblasting, drawing, cutting, straightening, polishing, defect testing, and bundling of steel coils. This line includes an in-line shotblaster with a maximum process rate of 0.04 tons/hr of steel shot used. Particulate emissions from the shotblaster are controlled by a Torit cartridge-type dust collector. Stack identified as S-15.
- (l) One (1) Cold Finished Steel Bars from Hot Rolled Bar Process, constructed in 1979, which includes Roller Hearth Furnaces No. 1 and No. 2 and Kemp Bar Heating Furnaces No. 3 and No. 7. The total combined maximum design capacity is 48 MMBtu/hr heat input, using no control equipment and natural gas-fired only.
- (m) One (1) Screw Hearth Line, including one (1) Hardening Furnace, one (1) Tempering Furnace, and one (1) Reservoir Tank Furnace, constructed in 2001, each with a maximum design capacity of 17.145 MMBtu/hr, 12.42 MMBtu/hr, and 1 MMBtu/hr heat input, respectively, natural gas-fired, using no control equipment and exhausting inside the building, stacks identified as S-12, S-13, and S-14.

SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-1.1-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2, and 326 IAC 2-1.1-1) shall prevail.

B.2 Permit Term [326 IAC 2-6.1-7(a)] [326 IAC 2-1.1-9.5] [IC 13-15-3-6(a)]

- (a) This permit, MSOP 089-21749-00220, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ and HDEM, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

B.3 Term of Conditions [326 IAC 2-1.1-9.5]

Notwithstanding the permit term of a permit to construct, a permit to operate, or a permit modification, any condition established in a permit issued pursuant to a permitting program approved in the state implementation plan shall remain in effect until:

- (a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or
- (b) the emission unit to which the condition pertains permanently ceases operation.

B.4 Enforceability

Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM and HDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

B.5 Severability

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

B.6 Property Rights or Exclusive Privilege

This permit does not convey any property rights of any sort or any exclusive privilege.

B.7 Duty to Provide Information

- (a) The Permittee shall furnish to IDEM, OAQ and HDEM, within a reasonable time, any information that IDEM, OAQ and HDEM may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1). Upon request, the Permittee shall also furnish to IDEM, OAQ and HDEM copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U.S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.8 Certification

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by an "authorized individual" of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) An “authorized individual” is defined at 326 IAC 2-1.1-1(1).

B.9 Annual Notification [326 IAC 2-6.1-5(a)(5)]

- (a) An annual notification shall be submitted by an authorized individual to the Office of Air Quality and HDEM stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.

- (b) The annual notice shall be submitted in the format attached no later than March 1 of each year to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, IN 46204-2251

and

Hammond Department of Environmental Management
Air Pollution Control Division
5925 Calumet Avenue – Room 304
Hammond, Indiana 46320

- (c) 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, OAQ and HDEM on or before the date it is due.

B.10 Preventive Maintenance Plan [326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs) including the following information on each facility:

- (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; and
- (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

- (b) A copy of the PMPs shall be submitted to IDEM, OAQ and HDEM upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ and HDEM. IDEM, OAQ and HDEM may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by an “authorized individual” as defined by 326 IAC 2-1.1-1(1).

- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation, Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.11 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of permits established prior to MSOP 089-21749-00220 and issued pursuant to permitting programs approved into the state implementation plan have been either:

- (1) incorporated as originally stated,

(2) revised, or

(3) deleted.

(b) All previous registrations and permits are superseded by this permit.

B.12 Termination of Right to Operate [326 IAC 2-6.1-7(a)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least ninety (90) days prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-6.1-7.

B.13 Permit Renewal [326 IAC 2-6.1-7]

(a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and HDEM and shall include the information specified in 326 IAC 2-6.1-7. Such information shall be included in the application for each emission unit at this source. The renewal application does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

and

Hammond Department of Environmental Management
Air Pollution Control Division
5925 Calumet Avenue – Room 304
Hammond, Indiana 46320

(b) A timely renewal application is one that is:

(1) Submitted at least ninety (90) days prior to the date of the expiration of this permit; and

(2) 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 is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ and HDEM on or before the date it is due.

(c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-6.1 until IDEM, OAQ and HDEM takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ and HDEM any additional information identified as being needed to process the application.

B.14 Permit Amendment or Revision [326 IAC 2-5.1-3(e)(3)] [326 IAC 2-6.1-6]

(a) Permit amendments and revisions are governed by 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 Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

and

Hammond Department of Environmental Management
Air Pollution Control Division
5925 Calumet Avenue – Room 304
Hammond, Indiana 46320

Any such application shall be certified by an “authorized individual” as defined by 326 IAC 2-1.1-1(1).

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

B.15 Source Modification Requirement

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2.

B.16 Inspection and Entry [326 IAC 2-5.1-3(e)(4)(B)] [326 IAC 2-6.1-5(a)(4)] [IC 13-14-2-2] [IC13-17-3-2] [IC 13-30-3-1]

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, OAQ, U.S. EPA, and HDEM 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) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.17 Transfer of Ownership or Operational Control [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 change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

and

Hammond Department of Environmental Management
Air Pollution Control Division
5925 Calumet Avenue – Room 304
Hammond, Indiana 46320

The application which shall be submitted by the Permittee does require the certification by an “authorized individual” as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement notice-only changes addressed in the request for a notice-only change immediately upon submittal of the request. [326 IAC 2-6.1-6(d)(3)]

B.18 Annual Fee Payment [326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to HDEM within thirty (30) calendar days of receipt of a billing.
- (b) The Permittee may call the following telephone number: 219-853-6306 to determine the appropriate permit fee.

B.19 Credible Evidence [326 IAC 1-1-6]

For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether the Permittee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

C.1 Permit Revocation [326 IAC 2-1.1-9]

Pursuant to 326 IAC 2-1.1-9 (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.2 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 non-overlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]

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. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.

C.4 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and 326 IAC 9-1-2.

C.5 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions).

C.6 Fugitive Dust Emissions [326 IAC 6.8-10-3]

The Permittee shall be in violation of 326 IAC 6.8-10-3 (formerly 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.7 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
 - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
 - (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.

- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).

- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue
MC 61-52 IGCN 1003
Indianapolis, Indiana 46204-2251

and

Hammond Department of Environmental Management
Air Pollution Control Division
5925 Calumet Avenue – Room 304
Hammond, Indiana 46320

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by an “authorized individual” as defined by 326 IAC 2-1.1-1(1).

- (e) Procedures for Asbestos Emission Control
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.

- (f) Demolition and Renovation
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).

- (g) Indiana Accredited Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Accredited Asbestos inspector is not federally enforceable.

Testing Requirements [326 IAC 2-6.1-5(a)(2)]

C.8 Performance Testing [326 IAC 3-6]

- (a) 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, OAQ.

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 Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

and

Hammond Department of Environmental Management
Air Pollution Control Division
5925 Calumet Avenue – Room 304
Hammond, Indiana 46320

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by an “authorized individual” as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall notify IDEM, OAQ and HDEM of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by an “authorized individual” as defined by 326 IAC 2-1.1-1(1).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ and HDEM not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ and HDEM if the Permittee submits to IDEM, OAQ and HDEM, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.9 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U.S. EPA.

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

C.10 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.11 Monitoring Methods [326 IAC 3][40 CFR 60][40 CFR 63]

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, 40 CFR 60, Appendix B, 40 CFR 63, or other approved methods as specified in this permit.

C.12 Instrument Specifications [326 IAC 2-1.1-11]

- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.
- (b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

Corrective Actions and Response Steps

C.13 Response to Excursions or Exceedances

- (a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:
 - (1) initial inspection and evaluation;
 - (2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or
 - (3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
 - (1) monitoring results;
 - (2) review of operation and maintenance procedures and records;
 - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall maintain the following records:
 - (1) monitoring data;
 - (2) monitor performance data, if applicable; and
 - (3) corrective actions taken.

C.14 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 response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ and HDEM within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
- (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, OAQ that re-testing in one hundred twenty (120) days is not practicable, IDEM, OAQ may extend the re-testing deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to non-compliant stack tests.

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

Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]

C.15 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 Quality (OAQ) 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 OAQ 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.16 Emission Statement [326 IAC 2-6]

- (a) Pursuant to 326 IAC 2-6-3(a)(1), the Permittee shall submit an emission statement by July 1 following a calendar year when the source emits oxides of nitrogen into the ambient air equal to or greater than twenty – five (25) tons. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

The statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue
MC 61-50 IGCN 1003
Indianapolis, Indiana 46204-2251

and

Hammond Department of Environmental Management
Air Pollution Control Division
5925 Calumet Avenue - Room 304
Hammond, Indiana 46320

The emission statement does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The 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, OAQ and HDEM on or before the date it is due.

C.17 Annual Emission Inventory [Hammond Ordinance No. 7102]

- (a) The Permittee shall submit an annual emission inventory containing production information, fuel usage and estimated actual emissions of criteria pollutants for each permitted unit. The emission inventory must be received by April 15th of each year. The submittal should cover the twelve (12) consecutive month time period starting January 1 and ending December 31. This is a local requirement only. The emission inventory must be submitted to:

Hammond Department of Environmental Management
Air Pollution Control Division
5925 Calumet Avenue - Room 304
Hammond, Indiana 46320

This inventory does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The emission inventory 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 HDEM on or before the date it is due.

C.18 General Record Keeping Requirements [326 IAC 2-6.1-5]

- (a) Records of all required monitoring data, reports and support information required by this permit 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 physically present or electronically accessible at the source location for a minimum of three (3) years. 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 request for records to the Permittee, the Permittee shall furnish the records to the Commissioner or HDEM within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.19 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

- (a) 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 Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

and

Hammond Department of Environmental Management
Air Pollution Control Division
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, OAQ and HDEM on or before the date it is due.
- (c) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by an “authorized individual” as defined by 326 IAC 2-1.1-1(1).
- (d) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit “calendar year” means the twelve (12) month period from January 1 to December 31 inclusive.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: One (1) Pangborn Mechanical Coil Descaler, constructed in 1989, with a maximum descaling capacity of 15 tons of steel coils per hour. Emissions to the atmosphere of oxide scale and steel shot dust are controlled by a Tenkay-Farr Cartridge Dust Collection System and a high performance Riga-Flo 200 Filter Collector which exhausts at one (1) stack, identified as S-2.

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

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

D.1.1 Particulate Matter (PM) [326 IAC 6.8-1-2(a)]

Pursuant to 326 IAC 6.8-1-2(a) (formerly 326 IAC 6-1-2(a)) (Nonattainment Area Particulate Limitations), particulate matter (PM) emissions from the Pangborn Mechanical Descaler shall be limited to 0.03 grain per dry standard cubic foot of exhaust air.

D.1.2 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and its control device.

Compliance Determination Requirements

D.1.3 Particulate Control

- (a) Pursuant to OP# 01773, issued on April 7, 2000, and to comply with Condition D.1.1, the Tenkay-Farr Cartridge Dust Collection System and Riga-Flo 200 Filter Collector for PM control shall be in operation and control emissions from the Pangborn Mechanical Coil Descaler at all times when the Pangborn Mechanical Coil Descaler is in operation.
- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

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

D.1.4 Visible Emissions Notations

- (a) Daily visible emission notations of the Pangborn Mechanical Coil Descaler stack exhaust shall be performed during normal daylight operations. 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.

- (e) If abnormal emissions are observed, the Permittee shall take reasonable steps in accordance with Section C- Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C – Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.1.5 Parametric Monitoring

The Permittee shall record the pressure drop across the Riga-Flo 200 filter collector used in conjunction with the Pangborn Mechanical Coil Descaler, at least once daily when the Pangborn Mechanical Coil Descaler is in operation. When for any one reading, the pressure drop across the collector is outside the normal range of 1 to 5.5 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. A pressure reading that is outside the above-mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C – Response to Excursions or Exceedances, shall be considered a deviation from this permit.

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

D.1.6 Broken or Failed Filter Detection

- (a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as a malfunction.
- (b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emissions unit. Operations may continue only if the event qualifies as a malfunction.

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

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

D.1.7 Record Keeping Requirements

- (a) To document compliance with Condition D.1.4, the Permittee shall maintain records of daily visible emission notations of the Pangborn Mechanical Coil Descaler stack exhaust. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation, (e.g. the process did not operate that day).
- (b) To document compliance with Condition D.1.5, the Permittee shall maintain a daily record of the pressure drop across the collector controlling the Pangborn Mechanical Coil Descaler. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading, (e.g. the process did not operate that day).
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: One (1) Fennel Corporation No. 3 Roller Hearth Furnace, constructed in 1979, with a maximum design capacity of 8.0 MMBtu/hr heat input, natural gas-fired, using no control equipment and exhausting at one (1) stack, identified as S-3.

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

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

D.2.1 Particulate Matter (PM), Sulfur Dioxide (SO₂), Nitrogen Oxide (NO_x), Volatile Organic Compound (VOC), and Carbon Monoxide (CO) [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), Nitrogen Oxide (NO_x), Volatile Organic Compound (VOC), and Carbon Monoxide (CO).

D.2.2 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility.

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Four (4) Wire Bay Space Heaters, three (3) with a maximum design capacity of 1.6 MMBtu/hr heat input, constructed in 1979, and one (1) with a maximum design capacity of 0.35 MMBtu/hr heat input, constructed in 1996, (5.15 MMBtu/hr combined), natural gas-fired, using no control equipment, and exhausting inside the building, stack identified as S-4.

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

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

D.3.1 Particulate Matter (PM), Sulfur Dioxide (SO₂), Nitrogen Oxide (NO_x), Volatile Organic Compound (VOC), and Carbon Monoxide (CO) [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), Nitrogen Oxide (NO_x), Volatile Organic Compound (VOC), and Carbon Monoxide (CO).

D.3.2 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility.

SECTION D.4 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: One (1) Wheelabrator No. 1 (East) Shot Blasting Operation and One (1) Wheelabrator No. 2 (West) Shot Blasting Operation, constructed in 1979, maximum rate of steel bars processed through each unit is 15 tons/hr. Particulate emissions of oxide scale and steel shot dust are controlled by a Mikropul Horizontal Cartridge Filter System which exhausts at one (1) stack, identified as S-5.

This Filter System is common to both Wheelabrator No. 1 (East) and Wheelabrator No. 2 (West) Shot Blasting Operations.

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

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

D.4.1 Particulate Matter less than 10 microns (PM10) [326 IAC 6.8-2-20]

Pursuant to 326 IAC 6.8-2-20 (formerly 326 IAC 6-1-10.1(d)) (Lake County PM10 emission requirements), the PM10 emissions from the Wheelabrator No. 1 (East) Shot Blasting Operation and the Wheelabrator No. 2 (West) Shot Blasting Operation shall be limited to 0.001 lbs/ton and 0.020 lbs/hr as specifically listed in 326 IAC 6.8-2-20.

D.4.2 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and its control device.

Compliance Determination Requirements

D.4.3 Testing Requirements [326 IAC 2-1.1-11]

Within 180 days of the issuance of this permit, in order to demonstrate compliance with Condition D.4.1, the Permittee shall perform PM10 testing on the stack serving both shot blasting operations utilizing methods as approved by the Commissioner. Both shot blasting operations shall be in operation during the test. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C- Performance Testing.

D.4.4 Particulate Control

(a) Pursuant to OP#s 01776 & 01777, issued on April 7, 2000, and to comply with Condition D.4.1, the Mikropul Horizontal Cartridge Filter System for PM10 control shall be in operation and control emissions from the Wheelabrator No. 1 (East) Shot Blasting Operation or the Wheelabrator No. 2 (West) Shot Blasting Operation at all times that the Wheelabrator No. 1 (East) Shot Blasting Operation or the Wheelabrator No. 2 (West) Shot Blasting Operation are in operation.

(b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

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

D.4.5 Visible Emissions Notations

- (a) Daily visible emission notations of the Mikropul Horizontal Cartridge Filter System stack exhaust shall be performed during normal daylight operations. 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.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C – Response to Excursions or Exceedances shall be considered a deviation from this permit

D.4.6 Parametric Monitoring

The Permittee shall record the pressure drop across the collector used in conjunction with the Wheelabrator No. 1 (East) Shot Blasting Operation and the Wheelabrator No. 2 (West) Shot Blasting Operation, at least once daily when the Wheelabrator No. 1 (East) Shot Blasting Operation and the Wheelabrator No. 2 (West) Shot Blasting Operation is in operation. When for any one reading, the pressure drop across the collector is outside the normal range of 1 to 5.5 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. A pressure reading that is outside the above-mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C – Response to Excursions or Exceedances, shall be considered a deviation from this permit.

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

D.4.7 Broken or Failed Filter Detection

- (a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as a malfunction.
- (b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emissions unit. Operations may continue only if the event qualifies as a malfunction.

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

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

D.4.8 Record Keeping Requirements

- (a) To document compliance with Condition D.4.5, the Permittee shall maintain records of daily visible emission notations of the Mikropul Horizontal Cartridge Filter System stack exhaust. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation, (e.g. the process did not operate that day).
- (b) To document compliance with Condition D.4.6, the Permittee shall maintain a daily record of the pressure drop across the collector controlling the Wheelabrator No. 1 (East) Shot Blasting Operation and the Wheelabrator No. 2 (West) Shot Blasting Operation. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading, (e.g. the process did not operate that day).
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.5 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: One (1) No. 10 Induction Furnace, constructed in 1979, with a maximum design rate of 1.71 tons/hr. Particulate emissions are controlled by a Uni-wash dust collector efficient in eliminating oily smoke, stack identified as S-6.

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

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

D.5.1 Particulate Matter less than 10 microns (PM10) [326 IAC 6.8-2-20]

Pursuant to 326 IAC 6.8-2-20 (formerly 326 IAC 6-1-10.1(d)) (Lake County PM10 emission requirements), the PM10 emissions from the No. 10 Induction Furnace shall be limited to 0.548 lbs/ton and 0.940 lbs/hr as specifically listed in 326 IAC 6.8-2-20.

D.5.2 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and its control device.

Compliance Determination Requirements

D.5.3 Particulate Control

- (a) Pursuant to OP# 01779, issued on April 7, 2000, and to comply with Condition D.5.1, the Uni-wash dust collector for PM10 control shall be in operation and control emissions from the No. 10 Induction Furnace at all times when the No. 10 Induction Furnace is in operation.
- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

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

D.5.4 Visible Emissions Notations

- (a) Daily visible emission notations of the No. 10 Induction Furnace stack exhaust shall be performed during normal daylight operations. 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.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. Failure to take response

steps in accordance with Section C – Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.5.5 Parametric Monitoring

The Permittee shall record the pressure drop across the collector used in conjunction with the No. 10 Induction Furnace, at least once daily when the No. 10 Induction Furnace is in operation. When for any one reading, the pressure drop across the collector is outside the normal range of 1 to 5.5 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. A pressure reading that is outside the above-mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C – Response to Excursions or Exceedances shall be considered a deviation from this permit.

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

D.5.6 Broken or Failed Filter Detection

- (a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as a malfunction.
- (b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emissions unit. Operations may continue only if the event qualifies as a malfunction.

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

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

D.5.7 Record Keeping Requirements

- (a) To document compliance with Condition D.5.4, the Permittee shall maintain records of daily visible emission notations of the No. 10 Induction Furnace stack exhaust. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation, (e.g. the process did not operate that day).
- (b) To document compliance with Condition D.5.5, the Permittee shall maintain a daily record of the pressure drop across the collector controlling the No. 10 Induction Furnace. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading, (e.g. the process did not operate that day).
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.6 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: One (1) Mammoth Space Heater, Shipping Building East, constructed in 1979, with a maximum design capacity of 1.6 MMBtu/hr heat input, natural gas-fired, using no control equipment and exhausting inside the building, stack identified as S-7.

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

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

D.6.1 Particulate Matter (PM), Sulfur Dioxide (SO₂), Nitrogen Oxide (NO_x), Volatile Organic Compound (VOC), and Carbon Monoxide (CO) [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), Nitrogen Oxide (NO_x), Volatile Organic Compound (VOC), and Carbon Monoxide (CO).

D.6.2 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility.

SECTION D.7 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: One (1) Mammoth Space Heater, Shipping Building West, constructed in 1979, with a maximum design capacity of 1.6 MMBtu/hr heat input, natural gas-fired, using no control equipment and exhausting inside the building, stack identified as S-8.

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

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

D.7.1 Particulate Matter (PM), Sulfur Dioxide (SO₂), Nitrogen Oxide (NO_x), Volatile Organic Compound (VOC), and Carbon Monoxide (CO) [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), Nitrogen Oxide (NO_x), Volatile Organic Compound (VOC), and Carbon Monoxide (CO).

D.7.2 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility.

SECTION D.8 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Three (3) Space Heaters, Building No. 70, constructed in 1997, with a combined maximum design capacity of 1.35 MMBtu/hr heat input, natural gas-fired, using no control equipment, and exhausting inside the building, stack identified as S-9.

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

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

D.8.1 Particulate Matter (PM), Sulfur Dioxide (SO₂), Nitrogen Oxide (NO_x), Volatile Organic Compound (VOC), and Carbon Monoxide (CO) [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), Nitrogen Oxide (NO_x), Volatile Organic Compound (VOC), and Carbon Monoxide (CO).

D.8.2 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility.

SECTION D.9 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Two (2) Dayton Space Heaters, Building No. 60, constructed in 1979, each with a maximum design capacity of 0.35 MMBtu/hr heat input (0.70 MMBtu/hr combined), natural gas-fired, using no control equipment, and exhausting inside the building, stack identified as S-10.

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

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

D.9.1 Particulate Matter (PM), Sulfur Dioxide (SO₂), Nitrogen Oxide (NO_x), Volatile Organic Compound (VOC), and Carbon Monoxide (CO) [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), Nitrogen Oxide (NO_x), Volatile Organic Compound (VOC), and Carbon Monoxide (CO).

D.9.2 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility.

SECTION D.10 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

Nine (9) Space Heat Units, constructed 1998, identified as follows:

- (1) One (1) Dravo, Building No. 41, with a maximum design capacity of 1.875 MMBtu/hr heat input.
- (2) One (1) Dayton, located in the Cutting Fluid Storage Area, with a maximum design capacity of 0.350 MMBtu/hr heat input.
- (3) One (1) Dayton and One (1) Modine, located in the Storeroom, with a maximum design capacity of 0.350 and 0.2 MMBtu/hr heat input, respectively.
- (4) One (1) Armstrong, located in the Oil Storage Room, with a maximum design capacity of 0.09 MMBtu/hr heat input.
- (5) One (1) Dayton, located in the Mfg. Engr. Storeroom, with a maximum design capacity of 0.125 MMBtu/hr heat input.
- (6) One (1) Engr Bldg Reznor Furnace, with a maximum design capacity of 0.4 MMBtu/hr heat input.
- (7) One (1) East and One (1) West Penthouse Boiler (Basmor and American Standard), with a maximum design capacity of 0.875 MMBtu/hr and 0.7 MMBtu/hr, respectively.

All nine space heat units are natural gas-fired only. Stack identified as S-11.

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

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

D.10.1 Particulate Matter (PM), Sulfur Dioxide (SO₂), Nitrogen Oxide (NO_x), Volatile Organic Compound (VOC), and Carbon Monoxide (CO) [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), Nitrogen Oxide (NO_x), Volatile Organic Compound (VOC), and Carbon Monoxide (CO).

D.10.2 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility.

SECTION D.11 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: One (1) Coil Drawing Line No. 5, constructed in 1995, which includes uncoiling, pointing, shotblasting, drawing, cutting, straightening, polishing, defect testing, and bundling of steel coils. This line includes an in-line shotblaster with a maximum process rate of 0.04 tons/hr of steel shot used. Particulate emissions from the shotblaster are controlled by a Torit cartridge-type dust collector. Stack identified as S-15.

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

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

D.11.1 Particulate Matter (PM) [326 IAC 6.8-1-2(a)]

Pursuant to 326 IAC 6.8-1-2(a) (formerly 326 IAC 6-1-2(a)) (Nonattainment Area Particulate Limitations), particulate matter (PM) emissions from the shotblaster shall be limited to 0.03 grain per dry standard cubic foot of exhaust air.

D.11.2 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and its control device.

Compliance Determination Requirements

D.11.3 Particulate Control

- (a) Pursuant to OP# 01767, issued on April 7, 2000, and to comply with Condition D.11.1, the Torit cartridge-type dust collector for PM control shall be in operation and control emissions from the shotblaster at all times when the shotblaster is in operation.
- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

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

D.11.4 Visible Emissions Notations

- (a) Daily visible emission notations of the Coil Drawing Line No. 5 stack exhaust shall be performed during normal daylight operations. 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.

- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C-Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C – Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.11.5 Parametric Monitoring

The Permittee shall record the pressure drop across the collector used in conjunction with the shotblaster, at least once daily when the shotblaster is in operation. When for any one reading, the pressure drop across the collector is outside the normal range of 1 to 5.5 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. A pressure reading that is outside the above-mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C – Response to Excursions or Exceedances shall be considered a deviation from this permit.

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

D.11.6 Broken or Failed Filter Detection

- (a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as a malfunction.
- (b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emissions unit. Operations may continue only if the event qualifies as a malfunction.

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

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

D.11.7 Record Keeping Requirements

- (a) To document compliance with Condition D.11.4, the Permittee shall maintain records of daily visible emission notations of the Coil Drawing Line No. 5 stack exhaust. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation, (e.g. the process did not operate that day).
- (b) To document compliance with Condition D.11.5, the Permittee shall maintain a daily record of the pressure drop across the collector controlling the shotblaster. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading, (e.g. the process did not operate that day).
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.12

EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: One (1) Cold Finished Steel Bars from Hot Rolled Bar Process, constructed in 1979, which includes Roller Hearth Furnaces No. 1 and No. 2 and Kemp Bar Heating Furnaces No. 3 and No. 7. The total combined maximum design capacity is 48 MMBtu/hr heat input, using no control equipment and natural gas-fired only.

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

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

D.12.1 Particulate Matter (PM), Sulfur Dioxide (SO₂), Nitrogen Oxide (NO_x), Volatile Organic Compound (VOC), and Carbon Monoxide (CO) [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), Nitrogen Oxide (NO_x), Volatile Organic Compound (VOC), and Carbon Monoxide (CO).

D.12.2 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility.

SECTION D.13

EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: One (1) Screw Hearth Line, including one (1) Hardening Furnace, one (1) Tempering Furnace, and one (1) Reservoir Tank Furnace, constructed in 2001, each with a maximum design capacity of 17.145 MMBtu/hr, 12.42 MMBtu/hr, and 1 MMBtu/hr heat input, respectively, (30.565 MMBtu/hr combined), natural gas-fired, using no control equipment and exhausting inside the building, stacks identified as S-12, S-13, and S-14.

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

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

D.13.1 Particulate Matter (PM), Sulfur Dioxide (SO₂), Nitrogen Oxide (NO_x), Volatile Organic Compound (VOC), and Carbon Monoxide (CO) [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), Nitrogen Oxide (NO_x), Volatile Organic Compound (VOC), and Carbon Monoxide (CO).

D.13.2 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

and

**HAMMOND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
-AIR POLLUTION CONTROL DIVISION-**

**MINOR SOURCE OPERATING PERMIT
CERTIFICATION**

Source Name: **LaSalle Steel Company**
Source Address: 1412 150th Street, Hammond, Indiana 46327
Mailing Address: 1412 150th Street, Hammond, Indiana 46327
Permit No.: **M089-21749-00220**

This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.

Please check what document is being certified:

- Annual Notification
- Test Result (specify)
- Report (specify)
- Notification (specify)
- Affidavit (specify)
- Other (specify)

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Phone:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH
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:	LaSalle Steel Company
Address:	1412 150th Street
City:	Hammond, Indiana 46327
Phone #:	(219) 853-6233
MSOP #:	089-21749-00220

I hereby certify that **LaSalle Steel Company** is still in operation.
 no longer in operation.

I hereby certify that **LaSalle Steel Company** is in compliance with the requirements of MSOP **089-21749-00220**.
 not in compliance with the requirements of MSOP **089-21749-00220**.

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:

MALFUNCTION REPORT

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
FAX NUMBER - 317 233-6865
and
HAMMOND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
FAX NUMBER - 219 853-6343**

**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 TONS/YEAR PARTICULATE MATTER ? _____, 25 TONS/YEAR SULFUR DIOXIDE ? _____, 25 TONS/YEAR NITROGEN OXIDES? _____, 25 TONS/YEAR VOC ? _____, 25 TONS/YEAR HYDROGEN SULFIDE ? _____, 25 TONS/YEAR TOTAL REDUCED SULFUR ? _____, 25 TONS/YEAR REDUCED SULFUR COMPOUNDS ? _____, 25 TONS/YEAR FLUORIDES ? _____, 100TONS/YEAR CARBON MONOXIDE ? _____, 10 TONS/YEAR ANY SINGLE HAZARDOUS AIR POLLUTANT ? _____, 25 TONS/YEAR ANY COMBINATION HAZARDOUS AIR POLLUTANT ? _____, 1 TON/YEAR LEAD OR LEAD COMPOUNDS MEASURED AS ELEMENTAL LEAD ? _____, OR IS A SOURCE LISTED UNDER 326 IAC 2-5.1-3(2) ? _____. 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 PERM 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: ____/____/20____ _____ AM / PM

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION: _____

DATE/TIME CONTROL EQUIPMENT BACK-IN SERVICE ____/____/20____ _____ 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: _____

*SEE PAGE 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. 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:

**Indiana Department of Environmental Management
Office of Air Quality**

and

Hammond Department of Environmental Management

Addendum to the Technical Support Document for a
Minor Source Operating Permit (MSOP) Renewal

Source Name: LaSalle Steel Company
Source Location: 1412 150th Street, Hammond, Indiana 46327
County: Lake
SIC Code: 3316 – Cold Finishing of Steel Shapes
Operation Permit No.: **M089-21749-00220**
Permit Reviewer: Debra Malone, HDEM

On April 27, 2007, the Hammond Department of Environmental Management (HDEM) had a notice published in the Times, Hammond, Indiana, stating that LaSalle Steel Company had applied for a Minor Source Operating Permit Renewal to operate a cold finishing of steel shapes operation. 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.

Upon further review, the HDEM has decided to make the following revisions to the permit (bolded language has been added, the language with a line through it has been deleted).

Minor Source Operating Permit (MSOP)

1. On page 2 of 41, in Section C, where it reads **Testing Requirements**, the rule cite **[326 IAC 2-6.1-5(a)(2)]** has been inserted.

Testing Requirements [326 IAC 2-6.1-5(a)(2)]

2. On page 3 of 41, Section D.4.3, the rule cite [326 IAC 2-1.1-11] has been inserted.

D.4.3 Testing Requirements **[326 IAC 2-1.1-11]**

3. On page 5 of 41, the space between D.11.4 and D.11.5 has been removed.

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

D.11.4 Visible Emissions Notations
D.11.5 Parametric Monitoring

4. On page 5 of 41, Section D.12.1, [Hammond Air Quality Control Ordinance No. 3522 (as amended)] has been inserted.

D.12.1 Particulate Matter (PM), Sulfur Dioxide (SO₂), Nitrogen Oxide (NO_x), Volatile Organic Compound (VOC), and Carbon Monoxide (CO) [**Hammond Air Quality Control Ordinance No. 3522 (as amended)**]
5. On page 5 of 41, Section 13.1, [Hammond Air Quality Control Ordinance No. 3522 (as amended)] has been inserted.

D.13.1 Particulate Matter (PM), Sulfur Dioxide (SO₂), Nitrogen Oxide (NO_x), Volatile Organic Compound (VOC), and Carbon Monoxide (CO) [**Hammond Air Quality Control Ordinance No. 3522 (as amended)**]
6. On page 6 of 41, under A.2 Emission Units and Pollution Control Equipment Summary, Section (e), the second line was indented inadvertently. This has been corrected.

(e) One (1) No. 10 Induction Furnace, constructed in 1979, with a maximum design rate of 1.71 tons/hr. Particulate emissions are controlled by a Uni-wash dust collector efficient in eliminating oily smoke, stack identified as S-6.
7. On page 10 of 41, under B.11 Prior Permits Superseded, a space was inserted between section (a)(2) and (a)(3).

B.11 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of permits established prior to MSOP 089-21749-00220 and issued pursuant to permitting programs approved into the state implementation plan have been either:
 - (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deleted.
 - (b) All previous registrations and permits are superseded by this permit.
8. On page 21 of 41, under D.1.5 Parametric Monitoring, Riga-Flo 200 filter has been added and weekly has been changed to daily.

D.1.5 Parametric Monitoring

The Permittee shall record the pressure drop across the **Riga-Flo 200 filter** collector used in conjunction with the Pangborn Mechanical Coil Descaler, at least once ~~weekly~~ **daily** when the Pangborn Mechanical Coil Descaler is in operation. When for any one reading, the pressure drop across the collector is outside the normal range of 1 to 5.5 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. A pressure reading that is outside the above-mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C – Response to Excursions or Exceedances, shall be considered a deviation from this permit.

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

9. On page 21 of 41, under D.1.7 Record Keeping Requirements, in (a) and (b), i.e. has been changed to e.g. and in (b) pressure drop readings have been changed from being required at least once weekly to at least once daily.

D.1.7 Record Keeping Requirements

- (a) To document compliance with Condition D.1.4, the Permittee shall maintain records of daily visible emission notations of the Pangborn Mechanical Coil Descaler stack exhaust. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation, (~~i.e.~~ **e.g.** the process did not operate that day).
- (b) To document compliance with Condition D.1.5, the Permittee shall maintain ~~the following:~~
(~~1~~) ~~Weekly~~ **a daily** records of the pressure drop **across the collector controlling the Pangborn Mechanical Coil Descaler**. The Permittee shall include in its ~~weekly~~ **daily** records when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading, (~~i.e.~~ **e.g.** the process did not operate that **week day**).

10. On page 22 of 41, under D.2.1 Sulfur Dioxide (SO₂), Nitrogen Oxide (NO_x), Volatile Organic Compound (VOC), and Carbon Monoxide (CO), Particulate Matter (PM) has been added.

D.2.1 **Particulate Matter (PM)**, Sulfur Dioxide (SO₂), Nitrogen Oxide (NO_x), Volatile Organic Compound (VOC), and Carbon Monoxide (CO) [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), Nitrogen Oxide (NO_x), Volatile Organic Compound (VOC), and Carbon Monoxide (CO).

11. On page 23 of 41, under D.3.1 Sulfur Dioxide (SO₂), Nitrogen Oxide (NO_x), Volatile Organic Compound (VOC), and Carbon Monoxide (CO), Particulate Matter (PM) has been added.

D.3.1 **Particulate Matter (PM)**, Sulfur Dioxide (SO₂), Nitrogen Oxide (NO_x), Volatile Organic Compound (VOC), and Carbon Monoxide (CO) [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), Nitrogen Oxide (NO_x), Volatile Organic Compound (VOC), and Carbon Monoxide (CO).

12. On page 25 of 41, under D.4.6 Parametric Monitoring, weekly has been changed to daily.

D.4.6 Parametric Monitoring

The Permittee shall record the pressure drop across the collector used in conjunction with the Wheelabrator No. 1 (East) Shot Blasting Operation and the Wheelabrator No. 2 (West) Shot Blasting Operation, at least once ~~weekly~~ **daily** when the Wheelabrator No. 1 (East) Shot Blasting Operation and the Wheelabrator No. 2 (West) Shot Blasting Operation is in operation. When for

any one reading, the pressure drop across the collector is outside the normal range of 1 to 5.5 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. A pressure reading that is outside the above-mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C – Response to Excursions or Exceedances, shall be considered a deviation from this permit.

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

13. On page 26 of 41, under D.4.8 Record Keeping Requirements, in (a) and (b), i.e. has been changed to e.g. and in (b) pressure drop readings have been changed from being required at least once weekly to at least once daily.
- (a) To document compliance with Condition D.4.5, the Permittee shall maintain records of daily visible emission notations of the Mikropul Horizontal Cartridge Filter System stack exhaust. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation, (~~i.e.~~ **e.g.** the process did not operate that day).
- (b) To document compliance with Condition D.4.6, the Permittee shall maintain ~~the following:~~
(~~1~~) ~~Weekly~~ **a daily** records of the pressure drop **across the collector controlling the Wheelabrator No. 1 (East) Shot Blasting Operation and the Wheelabrator No. 2 (West) Shot Blasting Operation**. The Permittee shall include in its ~~weekly~~ **daily** records when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading, (~~i.e.~~ **e.g.** the process did not operate that ~~week~~ **day**).
14. On page 28 of 41, under D.5.5 Parametric Monitoring, weekly has been changed to daily.

D.5.5 Parametric Monitoring

The Permittee shall record the pressure drop across the collector used in conjunction with the No. 10 Induction Furnace, at least once ~~weekly~~ **daily** when the No. 10 Induction Furnace is in operation. When for any one reading, the pressure drop across the collector is outside the normal range of 1 to 5.5 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. A pressure reading that is outside the above-mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C – Response to Excursions or Exceedances shall be considered a deviation from this permit.

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

15. On page 28 of 41, under D.5.7 Record Keeping Requirements, in (a) and (b), i.e. has been changed to e.g. and in (b) pressure drop readings have been changed from being required at least once weekly to at least once daily.
- (a) To document compliance with Condition D.5.4, the Permittee shall maintain records of daily visible emission notations of the No. 10 Induction Furnace stack exhaust. The Permittee shall include in its daily record when a visible emission notation is not taken

and the reason for the lack of visible emission notation, (~~i.e.~~ **e.g.** the process did not operate that day).

- (b) To document compliance with Condition D.5.5, the Permittee shall maintain ~~the following:~~
(1) ~~Weekly~~ **a daily** records of the pressure drop **across the collector controlling the No. 10 Induction Furnace**. The Permittee shall include in its ~~weekly~~ **daily** records when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading, (~~i.e.~~ **e.g.** the process did not operate that ~~week~~ **day**).

16. On page 35 of 41, under D.11.5 Parametric Monitoring, Coil Drawing Line No. 5 was changed to shotblaster and weekly was changed to daily.

D.11.5 Parametric Monitoring

The Permittee shall record the pressure drop across the collector used in conjunction with the ~~Coil Drawing Line No. 5~~ **shotblaster**, at least once ~~weekly~~ **daily** when the shotblaster is in operation. When for any one reading, the pressure drop across the collector is outside the normal range of 1 to 5.5 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. A pressure reading that is outside the above-mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C – Response to Excursions or Exceedances shall be considered a deviation from this permit.

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

17. On page 35 of 41, under D.11.7 Record Keeping Requirements, in (a) and (b), i.e. has been changed to e.g. and in (b) pressure drop readings have been changed from being required at least once weekly to at least once daily.

D.11.7 Record Keeping Requirements

- (a) To document compliance with Condition D.11.4, the Permittee shall maintain records of daily visible emission notations of the Coil Drawing Line No. 5 stack exhaust. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation, (~~i.e.~~ **e.g.** the process did not operate that day).
- (b) To document compliance with Condition D.11.5, the Permittee shall maintain ~~the following:~~
(1) ~~Weekly~~ **a daily** records of the pressure drop **across the collector controlling the shotblaster**. The Permittee shall include in its ~~weekly~~ **daily** records when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading, (~~i.e.~~ **e.g.** the process did not operate that ~~week~~ **day**).

**Indiana Department of Environmental Management
Office of Air Quality
and
Hammond Department of Environmental Management
-Air Pollution Control Division-**

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

Source Background and Description

Source Name:	LaSalle Steel Company
Source Location:	1412 – 150 th Street, Hammond, Indiana 46327
County:	Lake
SIC Code:	3316 – Cold Finishing of Steel Shapes
Permit Renewal No.:	M089-21749-00220
Permit Reviewer:	Debra Malone

The Hammond Department of Environmental Management (HDEM) has reviewed the operating permit renewal application from LaSalle Steel Company relating to the operation of the following emission units and pollution control devices:

- (a) One (1) Pangborn Mechanical Coil Descaler, constructed in 1989, with a maximum descaling capacity of 15 tons of steel coils per hour. Emissions to the atmosphere of oxide scale and steel shot dust are controlled by a Tenkay-Farr Cartridge Dust Collection System and a high performance Riga-Flo 200 Filter Collector which exhausts at one (1) stack, identified as S-2.
- (b) One (1) Fennel Corporation No. 3 Roller Hearth Furnace, constructed in 1979, with a maximum design capacity of 8.0 MMBtu/hr heat input, natural gas-fired, using no control equipment and exhausting at one (1) stack, identified as S-3.
- (c) Four (4) Wire Bay Space Heaters, three (3) with a maximum design capacity of 1.6 MMBtu/hr heat input, constructed in 1979, and one (1) with a maximum design capacity of 0.35 MMBtu/hr heat input, constructed in 1996, (5.15 MMBtu/hr combined), natural gas-fired, using no control equipment, and exhausting inside the building, stack identified as S-4.
- (d) One (1) Wheelabrator No. 1 (East) Shot Blasting Operation and One (1) Wheelabrator No. 2 (West) Shot Blasting Operation, constructed in 1979, maximum rate of steel bars processed through each unit is 15 tons/hr. Particulate emissions of oxide scale and steel shot dust are controlled by a Mikropul Horizontal Cartridge Filter System which exhausts at one (1) stack, identified as S-5.

This Filter System is common to both Wheelabrator No. 1 (East) and Wheelabrator No. 2 (West) Shot Blasting Operations.
- (e) One (1) No. 10 Induction Furnace, constructed in 1979, with a maximum design rate of 1.71 tons/hr. Particulate emissions are controlled by a Uni-wash dust collector efficient in eliminating oily smoke, stack identified as S-6.

- (f) One (1) Mammoth Space Heater, Shipping Building East, constructed in 1979, with a maximum design capacity of 1.6 MMBtu/hr heat input, natural gas-fired, using no control equipment and exhausting inside the building, stack identified as S-7.
- (g) One (1) Mammoth Space Heater, Shipping Building West, constructed in 1979, with a maximum design capacity of 1.6 MMBtu/hr heat input, natural gas-fired, using no control equipment and exhausting inside the building, stack identified as S-8.
- (h) Three (3) Space Heaters, Building No. 70, constructed in 1997, with a combined maximum design capacity of 1.35 MMBtu/hr heat input, natural gas-fired, using no control equipment, and exhausting inside the building, stack identified as S-9.
- (i) Two (2) Dayton Space Heaters, Building No. 60, constructed in 1979, each with a maximum design capacity of 0.35 MMBtu/hr heat input (0.70 MMBtu/hr combined), natural gas-fired, using no control equipment, and exhausting inside the building, stack identified as S-10.
- (j) Nine (9) Space Heat Units, constructed in 1998, identified as follows:
 - (1) One (1) Dravo, Building No. 41, with a maximum design capacity of 1.875 MMBtu/hr heat input.
 - (2) One (1) Dayton, located in the Cutting Fluid Storage Area, with a maximum design capacity of 0.350 MMBtu/hr heat input.
 - (3) One (1) Dayton and One (1) Modine, located in the Storeroom, with a maximum design capacity of 0.350 and 0.2 MMBtu/hr heat input, respectively.
 - (4) One (1) Armstrong, located in the Oil Storage Room, with a maximum design capacity of 0.09 MMBtu/hr heat input.
 - (5) One (1) Dayton, located in the Mfg. Engr. Storeroom, with a maximum design capacity of 0.125 MMBtu/hr heat input.
 - (6) One (1) Engr Bldg Reznor Furnace, with a maximum design capacity of 0.4 MMBtu/hr heat input.
 - (7) One (1) East and One (1) West Penthouse Boiler (Basmor and American Standard), with a maximum design capacity of 0.875 MMBtu/hr and 0.7 MMBtu/hr, respectively.

All nine space heat units are natural gas-fired only. Stack identified as S-11.
- (k) One (1) Coil Drawing Line No. 5, constructed in 1995, which includes uncoiling, pointing, shotblasting, drawing, cutting, straightening, polishing, defect testing, and bundling of steel coils. This line includes an in-line shotblaster with a maximum process rate of 0.04 tons/hr of steel shot used. Particulate emissions from the shotblaster are controlled by a Torit cartridge-type dust collector. Stack identified as S-15.
- (l) One (1) Cold Finished Steel Bars from Hot Rolled Bar Process, constructed in 1979, which includes Roller Hearth Furnaces No. 1 and No. 2 and Kemp Bar Heating Furnaces No. 3 and No. 7. The total combined maximum design capacity is 48 MMBtu/hr heat input, using no control equipment and natural gas-fired only.
- (m) One (1) Screw Hearth Line, including one (1) Hardening Furnace, one (1) Tempering Furnace, and one (1) Reservoir Tank Furnace, constructed in 2001, each with a maximum design capacity of 17.145 MMBtu/hr, 12.42 MMBtu/hr, and 1 MMBtu/hr heat input, respectively, natural gas-fired, using no control equipment and exhausting inside the building, stacks identified as S-12, S-13, and S-14.

Emission Units and Pollution Control Equipment Constructed and/or Operated without a Permit

There are no unpermitted emission units operating at this source during this review process.

History

On September 9, 2005, LaSalle Steel Company submitted applications to the OAQ and HDEM requesting to renew its operating permit. LaSalle Steel Company was issued a Minor Source Operating Permit on December 14, 2000.

Existing Approvals

Since the issuance of the MSOP (089-11518-00220) on December 14, 2000, the source has been operating under the following approvals as well:

- (a) Notice-only (089-19936-00220), issued on November 22, 2004.

All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either incorporated as originally stated, revised, or deleted by this permit. All previous registrations and permits are superseded by this permit.

Enforcement Issue

There are no enforcement actions pending.

Stack Summary

Stack ID	Operation	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature (°F)
S-2	Pangborn Mechanical Coil Descaler	30	2.9	13500	125
S-3	No. 3 Roller Hearth Furnace	50	2.0	2622	120
S-4	4-Wire Bay Space Heaters	60	0.75	12162	90
S-5	No. 1 Wheelabrator Shotblast (East)	45	2.0	3487	95
S-5	No. 2 Wheelabrator Shotblast (West)	45	2.0	3487	95
S-6	No. 10 Induction Furnace	33	2.5	3741	100
S-7	Mammoth Space Heater - East	65	1.5	393	120
S-8	Mammoth Space Heater - West	65	1.5	393	120
S-9	Three (3) Bldg. 70 Space Heaters	55	1.0	1325	110
S-10	Two (2) Bldg. 60 Dayton Space Heaters	55	1.0	3096	110
S-11	Nine (9) Space Heat Units	40	0.75	3040	90
S-12	Hardening Furnace	61	3	13,952	1650
S-13	Tempering Furnace	61	3	8,913	1450
S-14	Reservoir Tank Furnace	8	0.667	251	300
S-15	Coil Drawing Line No. 5	32.5	1.5	4414	158

*Stack S-14 exhausts into Stack S-13.

Emission Calculations

See Appendix A of this document for detailed emission calculations (ten (10) pages).

County Attainment Status

The source is located in Lake County.

Pollutant	Status
PM10	Attainment
PM2.5	Nonattainment
SO ₂	Attainment
NOx	Unclassifiable/Attainment
8-hour Ozone	Moderate Nonattainment
CO	Unclassifiable/Attainment
Lead	Attainment

- (a) U.S.EPA in Federal Register Notice 70 FR 943 dated January 5, 2005 has designated Lake County as nonattainment for PM2.5. On March 7, 2005 the Indiana Attorney General's Office on behalf of IDEM filed a lawsuit with the Court of Appeals for the District of Columbia Circuit challenging U.S. EPA's designation of nonattainment areas without sufficient data. However, in order to ensure that sources are not potentially liable for violation of the Clean Air Act, the OAQ is following the U.S. EPA's guidance to regulate PM10 emissions as surrogate for PM2.5 emissions pursuant to the Nonattainment New Source Review requirements. See the State Rule Applicability – Entire Source section.
- (b) Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to the ozone standards. Lake County has been designated as moderate nonattainment for the 8-hour ozone standard. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3. See the State Rule Applicability – Entire Source section.
- (c) Lake County has been classified as attainment or unclassifiable in Indiana for particulates less than ten (10) microns in diameter (PM10), sulfur dioxides (SO₂), nitrogen oxides (NO_x), carbon monoxide (CO), and Lead (Pb). Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability – Entire Source section.
- (d) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 revoking the one-hour ozone standard in Indiana.
- (e) Fugitive Emissions
Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 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 emissions are not counted toward determination of PSD or Emission Offset applicability.

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source.

Pollutant	Potential to Emit (tons/yr)
PM	12.63
PM-10	10.80
SO ₂	0.25
VOC	9.84
CO	35.32
NO _x	42.05

HAPs	Potential to Emit (tons/yr)
Lead	0.0001
Total	0.0001

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of PM, PM-10, SO₂, VOC, CO and NO_x are less than 100 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 NO_x is equal to or greater than 25 tons per year. This existing source is subject to the provisions of 326 IAC 2-6.1 Minor Source Operating Permit Program.
- (c) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is less than ten (10) tons per year and/or the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination of HAPs is less than twenty-five (25) tons per year.

Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 2005 OAQ emission data.

Pollutant	Actual Emissions (tons/year)
PM	1.72
PM-10	1.72
SO ₂	0.14
VOC	2.47
CO	18.96
NO _x	22.57
Lead	0

Potential to Emit After Issuance

The table below summarizes the potential to emit, reflecting all limits of the emission units. Any control equipment is considered enforceable only after issuance of this MSOP and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

Process/emission unit	Potential To Emit (tons/year)						
	PM	PM-10	SO ₂	VOC	CO	NO _x	HAPs
Pangborn Mechanical Coil Descaler	13.78	negligible	-	-	-	-	-
No. 3 Roller Hearth Furnace	0.25	0.25	0.02	0.28	2.80	3.34	-
Four (4) Wire Bay Space Heaters	0.07	0.07	0.01	0.05	0.72	0.86	-
Wheelabrator Shot Blasting Operations East #1 and West #2	negligible	0.09	-	-	-	-	-
#10 Induction Furnace	0.04	4.12	-	-	-	-	-
Mammoth Space Heater East	0.05	0.05	negligible	0.04	0.56	0.67	-
Mammoth Space Heater West	0.05	0.05	negligible	0.04	0.56	0.67	-
Three (3) Building 70 Space Heaters	0.06	0.06	negligible	0.05	0.70	0.83	-
Two (2) Building 60 Space Heaters	0.06	0.06	negligible	0.05	0.70	0.83	-
Cold Finished Steel Bars from Hot Rolled Bar Process	1.52	1.52	0.12	1.10	16.82	20.02	negligible
Nine (9) Space Heat Units	0.16	0.16	0.01	0.11	1.74	2.07	-
Hardening Furnace	0.54	0.54	0.04	4.11	6.01	7.15	-
Tempering Furnace	0.39	0.39	0.03	4.00	4.35	5.18	-
Reservoir Tank Furnace	0.03	0.03	negligible	0.02	0.35	0.42	-
Coil Drawing Line No. 5	4.26	negligible	-	-	-	-	-
Total Emissions	21.26	7.39	0.23	9.85	35.31	42.04	0

This table shows the allowable emissions for each pollutant for the entire source. These allowable emissions are either from 326 IAC 6.8-1-2(a), 326 IAC 6.8-2-20 or the Hammond Air Quality Control Ordinance No. 3522 (as amended).

- (a) This existing stationary source is not major for PSD because the emissions of each criteria pollutant are less than two hundred fifty (<250) tons per year, and it is not one of the twenty-eight (28) listed source categories.
- (b) This existing stationary source is not major for Emission Offset because the emissions of the nonattainment pollutants, VOC and NO_x, are less than one hundred (<100) tons per year.

- (c) Fugitive Emissions
Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3, fugitive emissions are not counted toward the determination of PSD and Emission Offset applicability.

Federal Rule Applicability

- (a) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the permit for this source.
- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14, 20 and 40 CFR Part 61, 63) included in this permit renewal.

State Rule Applicability – Entire Source

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

The source has submitted a Preventive Maintenance Plan (PMP) on April 8,1997. 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 which is located in Lake County is subject to 326 IAC 2-6 (Emission Reporting) because it has the potential to emit greater than 25 tons per year (tpy) of NO_x, and it may emit NO_x into the ambient air at levels equal to or greater than 25 tpy. In accordance with the compliance schedule in 326 IAC 2-6-3, an emission statement must be submitted by July 1 if the source emits NO_x into the ambient air equal to or greater than 25 tons during the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

Per Hammond Ordinance No. 7102, for those years that the source is not required to submit an emission statement, the source will be required to submit an annual emission inventory containing production information/fuel usage for each permitted unit. The emission inventory must be received by April 15th of each year. The submittal should cover the twelve (12) consecutive month time period starting January 1 and ending December 31. This is a local requirement only.

The source is in compliance with the required emission reporting 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 the 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.

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

State Rule Applicability – Individual Facilities

326 IAC 6.8-1-1 (Particulate Matter Limitations for Lake County – General Provisions)

This source is located in Lake County. It is specifically listed under 6.8-2-20 of this rule. Therefore, this rule does apply.

326 IAC 6.8-1-2 (Particulate emission limitations; fuel combustion steam generators, asphalt concrete plant, grain elevators, foundries, mineral aggregate operations; modification by commissioner)

Pursuant to 326 IAC 6.8-1-2(a) (Particulate emission limitations), particulate matter (PM) emissions from the Pangborn Mechanical Descaler shall be limited to 0.03 grain per dry standard cubic foot of exhaust air.

Pursuant to 326 IAC 6.8-1-2(a) (Particulate emission limitations), particulate matter (PM) emissions from the shotblaster shall be limited to 0.03 grain per dry standard cubic foot of exhaust air.

326 IAC 6.8-2-20 (Lake County PM10 emission requirements – LaSalle Steel Company)

Pursuant to 326 IAC 6.8-2-20 (formerly 326 IAC 6-1-10.1 Lake County PM10 emission requirements), the PM10 emissions from the Wheelabrator No. 1 (East) Shot Blasting Operation and the Wheelabrator No. 2 (West) Shot Blasting Operation shall be limited to 0.001 lbs/ton and 0.020 lbs/hr as specifically listed in 326 IAC 6.8-2-20.

Pursuant to 326 IAC 6.8-2-20 (formerly 326 IAC 6-1-10.1 Lake County PM10 emission requirements), the PM10 emissions from the No. 10 Induction Furnace, which is referred to as Number 11 furnace precipitator in error in the SIP, shall be limited to 0.548 lbs/ton and 0.940 lbs/hr as specifically listed in 326 IAC 6.8-2-20.

Pursuant to 326 IAC 6.8-2-20 (formerly 326 IAC 6-1-10.1 Lake County PM10 emission requirements), the PM10 emissions from the Fume Scrubber associated with the Cold Finished Steel Bars from Coils Process shall be limited to 0.015 lbs/ton and 0.060 lbs/hr as specifically listed in 326 IAC 6.8-2-20. The Cold Finished Steel Bars from Coils Process no longer exists at this source.

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).

Compliance Determination and Monitoring Requirements

Permits issued under 326 IAC 2-6.1 are required to ensure that sources can demonstrate compliance with all applicable state and federal rules on a continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a continuous demonstration. When this occurs IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-6.1-5. As a result, Compliance Determination Requirements are included in the permit. The Compliance Determination

Requirements in Section D of the permit are those conditions that are found directly within state and federal rules and the violation of which serves as grounds for enforcement action.

If the Compliance Determination Requirements are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also in Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

The Compliance Determination Requirements applicable to this source are as follows:

- (a) The Pangborn Mechanical Coil Descaler, the Wheelabrator No. 1 (East) Shot Blasting Operation and Wheelabrator No. 2 (West) Shot Blasting Operation, the No. 10 Induction Furnace, and the Coil Drawing Line No. 5, respectively, have applicable compliance determination conditions as specified below:
- (1) The Wheelabrator No. 1 (East) Shot Blasting Operation and Wheelabrator No. 2 (West) Shot Blasting Operation are controlled by a Mikropul Horizontal Cartridge Filter System which exhausts at one (1) stack, identified as S-5. Within 180 days of the issuance of this permit, the Permittee shall perform PM10 testing on the stack serving both shot blasting operations utilizing methods as approved by the Commissioner. The PM10 emissions are limited to 0.001 lbs/ton and 0.020 lbs/hr as specifically listed in 326 IAC 6.8-2-20. To demonstrate compliance with this limit, both units must be operated simultaneously during the testing period.
 - (2) Pursuant to OP# 01773, issued on April 7, 2000, the Tenkay-Farr Cartridge Dust Collection System and Riga-Flo 200 Filter Collector for PM control shall be in operation and control emissions from the Pangborn Mechanical Coil Descaler at all times when the Pangborn Mechanical Coil Descaler is in operation.
 - (3) Pursuant to OP#s 01776 & 01777, issued on April 7, 2000, the Mikropul Horizontal Cartridge Filter System for PM10 control shall be in operation and control emissions from the Wheelabrator No. 1 (East) Shot Blasting Operation or the Wheelabrator No. 2 (West) Shot Blasting Operation at all times that the Wheelabrator No. 1 (East) Shot Blasting Operation or the Wheelabrator No. 2 (West) Shot Blasting Operation are in operation.
 - (4) Pursuant to OP# 01779, issued on April 7, 2000, the Uni-wash dust collector for PM10 control shall be in operation and control emissions from the No. 10 Induction Furnace at all times when the No. 10 Induction Furnace is in operation.
 - (5) Pursuant to OP# 01767, issued on April 7, 2000, the Torit cartridge-type dust collector for PM control shall be in operation and control emissions from the shotblaster at all times when the shotblaster is in operation.

The Compliance Monitoring Requirements applicable to this source are as follows:

- (b) The Pangborn Mechanical Coil Descaler, the Wheelabrator No. 1 (East) Shot Blasting Operation and Wheelabrator No. 2 (West) Shot Blasting Operation, the No. 10 Induction Furnace, and the Coil Drawing Line No. 5, respectively, have applicable compliance monitoring conditions as specified below:
- (1) Visible emission notations of each stack exhaust shall be performed once per day during normal daylight operations. A trained employee shall record whether

emissions are normal or abnormal.

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.

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.

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.

If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C – Response to Excursions or Exceedances shall be considered a deviation from this permit.

- (2) The Permittee shall record the pressure drop across the collector used in conjunction with each emission unit, at least once weekly when the emission unit is in operation. When for any one reading, the pressure drop across the collector is outside the normal range of 1 to 5.5 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C – Response to Excursions or Exceedances. A pressure reading that is outside the above-mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C – Response to Excursions or Exceedances shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C – Response to Excursions or Exceedances, of this permit, shall be subject to approval by IDEM, OAQ and HDEM and shall be calibrated at least once every six (6) months.

- (3) In the event that bag failure has been observed:

- (a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as a malfunction.
- (b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emissions unit. Operations may continue only if the event qualifies as a malfunction.

Bag failure can be indicated by a significant drop in the baghouse pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

These monitoring conditions are necessary because the Tenkay-Farr Cartridge Dust Collection System and Riga-Flo 200 Filter Collector for the Pangborn Mechanical Coil Descaler, the Mikropul Horizontal Cartridge Filter System for the Wheelabrator No. 1 (East) Shot Blasting Operation and Wheelabrator No. 2 (West) Shot Blasting Operation, the Uni-wash dust collector for the No. 10 Induction Furnace, and the Torit cartridge-type dust collector for the Coil Drawing Line No. 5 must operate properly to ensure compliance with 326 IAC 6.8-1-2(a), 326 IAC 6.8-2-20, Hammond Air Quality Control Ordinance No. 3522 (as amended) and 326 IAC 2-6.1 Minor Source Operating Permit Program.

Recommendation

The staff recommends to the Commissioner that the MSOP Renewal 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 September 9, 2005.

Conclusion

The operation of this cold finishing of steel shapes operation shall be subject to the conditions of the attached MSOP Renewal No. **M089-21749-00220**.

Appendix A

Source Emissions Calculations

LaSalle Steel Company
 1412 - 150th Street
 Hammond, IN 46327-1799

PLANT ID NO: 089-00220
 REC'D DATE: 2/6/06
 CALC DATE: 8/4/06

CALCULATIONS BY: Kristina Massey

NO. OF POINTS: 15

****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

PT 1; SGMT 1

Pangborn Mechanical Coil Descaler

MDR (T/hr): 0.07
 YEARLY PROD (T/yr): N/A

STACK ID (DIAM:HEIGHT): (2.9': 30')
 FLOWRATE (ACFM): 13500
 Ts(°F): 125

CNTRL DEV: Tenkay-Farr and Riga-Flo

PERMITTED OPERATING HRS: **8760** hr/yr

POLLUTANT	EF(LB/T)	CE (%)	POTENTIAL EMISSIONS						ALLOWABLE	
			BEFORE CONTROLS			AFTER CONTROLS			(lbs/hr)	(TPY)
			(lbs/hr)	(lbs/day)	(TPY)	(lbs/hr)	(TPY)	(gr/dscf)		
PM	8	0.999	0.5600	13.4400	2.4528	0.000560	0.002453	0.0000	3.145055	13.7753
PM10	6.88	0.999	0.4816	11.5584	2.1094	0.000482	0.002109	0.0000	0	0.0000
SOx	0	0	0.0000	0.0000	0.0000	0.000000	0.000000	N/A	0	0.0000
NOx	0	0	0.0000	0.0000	0.0000	0.000000	0.000000	N/A	0	0.0000
VOC	0	0	0.0000	0.0000	0.0000	0.000000	0.000000	N/A	0	0.0000
CO	0	0	0.0000	0.0000	0.0000	0.000000	0.000000	N/A	0	0.0000
LEAD	0	0	0.0000	0.0000	0.0000	0.000000	0.000000	N/A	0	0.0000

326 IAC 6.8-1-2(a) - 0.03 gr/dscf

EF = lbs/T of Abrasive used, MDR = T/hr of Abrasive used, Yearly Prod = T/yr Abrasive used.

PT 2; SGMT 1

No. 3 Roller Hearth Furnace - Process Emissions

MDR (T/hr): 5
YEARLY PROD (T/yr): N/A

STACK ID (DIAM:HEIGHT): (2': 50')
FLOWRATE (ACFM): 2622
Ts(°F): 120

CNTRL DEV: NONE

PERMITTED OPERATING HRS: **8760** hr/yr

SCC NO. 3-03-009-34			POTENTIAL EMISSIONS						ALLOWABLE	
POLLUTANT	EF(LB/T)	CE (%)	BEFORE CONTROLS			AFTER CONTROLS			(lbs/hr)	(TPY)
			(lbs/hr)	(lbs/day)	(TPY)	(lbs/hr)	(TPY)	(gr/dscf)		
PM	0	0	0.0000	0.0000	0.0000	0.00000	0.00000	0.0000	0	0.0000
PM10	0	0	0.0000	0.0000	0.0000	0.00000	0.00000	0.0000	0	0.0000
SOx	0	0	0.0000	0.0000	0.0000	0.00000	0.00000	N/A	0	0.0000
NOx	0	0	0.0000	0.0000	0.0000	0.00000	0.00000	N/A	0.00000	0.0000
VOC	0.004	0	0.0216	0.5184	0.0946	0.02160	0.09461	N/A	0.02160	0.0946
CO	0	0	0.0000	0.0000	0.0000	0.00000	0.00000	N/A	0	0.0000
LEAD	0	0	0.0000	0.0000	0.0000	0.00000	0.00000	N/A	0	0.0000

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

PT 2; SGMT 2

No. 3 Roller Hearth Furnace - Nat Gas Combustion

MDC (mmBtu/hr): 8
MDR (mmcf/hr): 0.0076

HEAT CONTENT (Btu/cft): 1050
QTY BURNED (mmcf/yr): N/A

STACK ID (DIAM:HEIGHT): (2': 50')
FLOWRATE (ACFM): 2622
Ts(°F): 120

CNTRL DEV: NONE

PERMITTED OPERATING HRS: **8760** hr/yr

SCC NO. 3-04-900-03			POTENTIAL EMISSIONS						ALLOWABLE	
POLLUTANT	EF(lbs/mmcf)	CE (%)	BEFORE CONTROLS			AFTER CONTROLS			(lbs/hr)	(TPY)
			(lbs/hr)	(lbs/day)	(TPY)	(lbs/hr)	(TPY)	(gr/dscf)		
PM	7.6	0	0.0579	1.3897	0.2536	0.0579	0.2536	0.0028	0.0579	0.2536
PM10	7.6	0	0.0579	1.3897	0.2536	0.0579	0.2536	0.0028	0.0579	0.2536
SOx	0.6	0	0.0046	0.1097	0.0200	0.0046	0.0200	N/A	0.0046	0.0200
NOx	100	0	0.7619	18.2857	3.3371	0.7619	3.3371	N/A	0.7619	3.3371
VOC	5.5	0	0.0419	1.0057	0.1835	0.0419	0.1835	N/A	0.0419	0.1835
CO	84	0	0.6400	15.3600	2.8032	0.6400	2.8032	N/A	0.6400	2.8032
LEAD	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A	0.0000	0.0000

Point Totals: No. 3 Roller Hearth Furnace

POLLUTANT	BEFORE CONTROLS			AFTER CONTROLS			ALLOWABLE	
	(lbs/hr)	(lbs/day)	(TPY)	(lbs/hr)	(TPY)	(gr/dscf)	(lbs/hr)	(TPY)
PM	0.0579	1.3897	0.2536	0.0579	0.2536	0.0028	0.0579	0.2536
PM10	0.0579	1.3897	0.2536	0.0579	0.2536	0.0028	0.0579	0.2536
SOx	0.0046	0.1097	0.0200	0.0046	0.0200	N/A	0.0046	0.0200
NOx	0.7619	18.2857	3.3371	0.7619	3.3371	N/A	0.7619	3.3371
VOC	0.0635	1.5241	0.2782	0.0635	0.2782	N/A	0.0635	0.2782
CO	0.6400	15.3600	2.8032	0.6400	2.8032	N/A	0.6400	2.8032
LEAD	0.0000	0.0000	0.0000	0.0000	0.0000	N/A	0.0000	0.0000

PT 3; SGMT 1

Four (4) Wire Bay Space Heaters

(Natural Gas Combustion)

CNTRL DEV: NONE

MDC (mmBtu/hr): 2.0625

MDR (mmcft/hr): 0.0020

HEAT CONTENT (Btu/cft): 1050

QTY BURNED (mmcft/yr): N/A

STACK ID (DIAM:HEIGHT): (0.75': 60')

FLOWRATE (ACFM): 12162

Ts(°F): 90

PERMITTED OPERATING HRS: **8760** hr/yr

SCC NO. 1-05-001-06			POTENTIAL EMISSIONS						ALLOWABLE	
POLLUTANT	EF(lbs/mmcft)	CE (%)	BEFORE CONTROLS			AFTER CONTROLS			(lbs/hr)	(TPY)
			(lbs/hr)	(lbs/day)	(TPY)	(lbs/hr)	(TPY)	(gr/dscf)		
PM	7.6	0	0.0149	0.3583	0.0654	0.0149	0.0654	0.0001	0.0149	0.0654
PM10	7.6	0	0.0149	0.3583	0.0654	0.0149	0.0654	0.0001	0.0149	0.0654
SOx	0.6	0	0.0012	0.0283	0.0052	0.0012	0.0052	N/A	0.0012	0.0052
NOx	100	0	0.1964	4.7143	0.8604	0.1964	0.8604	N/A	0.1964	0.8604
VOC	5.5	0	0.0108	0.2593	0.0473	0.0108	0.0473	N/A	0.0108	0.0473
CO	84	0	0.1650	3.9600	0.7227	0.1650	0.7227	N/A	0.1650	0.7227
LEAD	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A	0.0000	0.0000

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

PT 4; SGMT 1

**Wheelabrator Shot Blasting Operations
East #1 and West #2**

(Mikropul Horizontal Cartridge Filter System)

CNTRL DEV: Mikropul Horizontal Cartridge Filter System

MDR (T/hr): 0.14

YEARLY PROD (T/yr): N/A

STACK ID (DIAM:HEIGHT): (2': 45')

FLOWRATE (ACFM): 15000

Ts(°F): 87

PERMITTED OPERATING HRS: **8760** hr/yr

SCC NO. 3-09-002-05			POTENTIAL EMISSIONS						ALLOWABLE	
POLLUTANT	EF(LB/T)	CE (%)	BEFORE CONTROLS			AFTER CONTROLS			(lbs/hr)	(TPY)
			(lbs/hr)	(lbs/day)	(TPY)	(lbs/hr)	(TPY)	(gr/dscf)		
PM	8	0.9997	1.1200	26.8800	4.9056	0.00034	0.00147	0.0000	0	0.0000
PM10	6.88	0.9997	0.9632	23.1168	4.2188	0.00029	0.00127	0.0000	0.020	0.0876
SOx	0	0	0.0000	0.0000	0.0000	0.00000	0.00000	N/A	0	0.0000
NOx	0	0	0.0000	0.0000	0.0000	0.00000	0.00000	N/A	0	0.0000
VOC	0	0	0.0000	0.0000	0.0000	0.00000	0.00000	N/A	0	0.0000
CO	0	0	0.0000	0.0000	0.0000	0.00000	0.00000	N/A	0	0.0000
LEAD	0	0	0.0000	0.0000	0.0000	0.00000	0.00000	N/A	0	0.0000

326 IAC 6.8-2-20

PT 5; SGMT 1

#10 Induction Furnace

CNTRL DEV: Uni-wash Dust Collector

MDR (T/hr): 1.7085
 YEARLY PROD (T/yr): N/A

STACK ID (DIAM:HEIGHT): (2.5': 33')
 FLOWRATE (ACFM): 7000

PERMITTED OPERATING HRS: **8760** hr/yr

SCC NO. 3-04-007-05			POTENTIAL EMISSIONS						ALLOWABLE	
POLLUTANT	EF(LB/T)	CE (%)	BEFORE CONTROLS			AFTER CONTROLS			(lbs/hr)	(TPY)
			(lbs/hr)	(lbs/day)	(TPY)	(lbs/hr)	(TPY)	(gr/dscf)		
PM	0.09	0.94	0.1538	3.6904	0.6735	0.00923	0.04041	0.0001	0	0.0000
PM10	0.01	0.94	0.0171	0.4100	0.0748	0.00103	0.00449	0.0000	0.940	4.1172
SOx	0	0	0.0000	0.0000	0.0000	0.00000	0.00000	N/A	0	0.0000
NOx	0	0	0.0000	0.0000	0.0000	0.00000	0.00000	N/A	0	0.0000
VOC	0	0	0.0000	0.0000	0.0000	0.00000	0.00000	N/A	0	0.0000
CO	0	0	0.0000	0.0000	0.0000	0.00000	0.00000	N/A	0	0.0000
LEAD	0	0	0.0000	0.0000	0.0000	0.00000	0.00000	N/A	0	0.0000

326 IAC 6.8-2-20

PT 6; SGMT 1

Mammoth Space Heater East

(Natural Gas Combustion)

CNTRL DEV: NONE

MDC (mmBtu/hr): 1.6
 MDR (mmcft/hr): 0.0015

HEAT CONTENT (Btu/cft): 1050
 QTY BURNED (mmcft/yr): N/A

STACK ID (DIAM:HEIGHT): (1.5': 65')
 FLOWRATE (ACFM): 393
 Ts(°F): 120

PERMITTED OPERATING HRS: **8760** hr/yr

SCC NO. 1-05-001-06			POTENTIAL EMISSIONS						ALLOWABLE	
POLLUTANT	EF(lbs/mmcft)	CE (%)	BEFORE CONTROLS			AFTER CONTROLS			(lbs/hr)	(TPY)
			(lbs/hr)	(lbs/day)	(TPY)	(lbs/hr)	(TPY)	(gr/dscf)		
PM	7.6	0	0.0116	0.2779	0.0507	0.0116	0.0507	0.0038	0.0116	0.0507
PM10	7.6	0	0.0116	0.2779	0.0507	0.0116	0.0507	0.0038	0.0116	0.0507
SOx	0.6	0	0.0009	0.0219	0.0040	0.0009	0.0040	N/A	0.0009	0.0040
NOx	100	0	0.1524	3.6571	0.6674	0.1524	0.6674	N/A	0.1524	0.6674
VOC	5.5	0	0.0084	0.2011	0.0367	0.0084	0.0367	N/A	0.0084	0.0367
CO	84	0	0.1280	3.0720	0.5606	0.1280	0.5606	N/A	0.1280	0.5606
LEAD	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A	0.0000	0.0000

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

PT 7; SGMT 1

Mammoth Space Heater West

(Natural Gas Combustion)

CNTRL DEV: NONE

MDC (mmBtu/hr): 1.6

MDR (mmcft/hr): 0.0015

HEAT CONTENT (Btu/cft): 1050

QTY BURNED (mmcft/yr): N/A

STACK ID (DIAM:HEIGHT): (1.5': 65')

FLOWRATE (ACFM): 393

Ts(°F): 120

PERMITTED OPERATING HRS: **8760** hr/yr

SCC NO. 1-05-001-06			POTENTIAL EMISSIONS						ALLOWABLE	
POLLUTANT	EF(lbs/mmcft)	CE (%)	BEFORE CONTROLS			AFTER CONTROLS			(lbs/hr)	(TPY)
			(lbs/hr)	(lbs/day)	(TPY)	(lbs/hr)	(TPY)	(gr/dscf)		
PM	7.6	0	0.0116	0.2779	0.0507	0.0116	0.0507	0.0038	0.0116	0.0507
PM10	7.6	0	0.0116	0.2779	0.0507	0.0116	0.0507	0.0038	0.0116	0.0507
SOx	0.6	0	0.0009	0.0219	0.0040	0.0009	0.0040	N/A	0.0009	0.0040
NOx	100	0	0.1524	3.6571	0.6674	0.1524	0.6674	N/A	0.1524	0.6674
VOC	5.5	0	0.0084	0.2011	0.0367	0.0084	0.0367	N/A	0.0084	0.0367
CO	84	0	0.1280	3.0720	0.5606	0.1280	0.5606	N/A	0.1280	0.5606
LEAD	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A	0.0000	0.0000

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

PT 8; SGMT 1

Three (3) Building 70 Space Heaters

(Natural Gas Combustion)

CNTRL DEV: NONE

MDC (mmBtu/hr): 2

MDR (mmcft/hr): 0.0019

HEAT CONTENT (Btu/cft): 1050

QTY BURNED (mmcft/yr): N/A

Ts(°F): 120

PERMITTED OPERATING HRS: **8760** hr/yr

SCC NO. 1-05-001-06			POTENTIAL EMISSIONS						ALLOWABLE	
POLLUTANT	EF(lbs/mmcft)	CE (%)	BEFORE CONTROLS			AFTER CONTROLS			(lbs/hr)	(TPY)
			(lbs/hr)	(lbs/day)	(TPY)	(lbs/hr)	(TPY)	(gr/dscf)		
PM	7.6	0	0.0145	0.3474	0.0634	0.0145	0.0634	N/A	0.0145	0.0634
PM10	7.6	0	0.0145	0.3474	0.0634	0.0145	0.0634	N/A	0.0145	0.0634
SOx	0.6	0	0.0011	0.0274	0.0050	0.0011	0.0050	N/A	0.0011	0.0050
NOx	100	0	0.1905	4.5714	0.8343	0.1905	0.8343	N/A	0.1905	0.8343
VOC	5.5	0	0.0105	0.2514	0.0459	0.0105	0.0459	N/A	0.0105	0.0459
CO	84	0	0.1600	3.8400	0.7008	0.1600	0.7008	N/A	0.1600	0.7008
LEAD	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A	0.0000	0.0000

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

PT 9; SGMT 1

Two (2) Building 60 Space Heaters

MDC (mmBtu/hr): 2 HEAT CONTENT (Btu/cft): 1050
 MDR (mmcft/hr): 0.0019 QTY BURNED (mmcft/yr): N/A

(Natural Gas Combustion)
 CNTRL DEV: NONE

Ts(°F): 120

PERMITTED OPERATING HRS: **8760** hr/yr

POLLUTANT	EF(lbs/mmcft)	CE (%)	POTENTIAL EMISSIONS						ALLOWABLE	
			BEFORE CONTROLS			AFTER CONTROLS			(lbs/hr)	(TPY)
			(lbs/hr)	(lbs/day)	(TPY)	(lbs/hr)	(TPY)	(gr/dscf)		
PM	7.6	0	0.0145	0.3474	0.0634	0.0145	0.0634	N/A	0.0145	0.0634
PM10	7.6	0	0.0145	0.3474	0.0634	0.0145	0.0634	N/A	0.0145	0.0634
SOx	0.6	0	0.0011	0.0274	0.0050	0.0011	0.0050	N/A	0.0011	0.0050
NOx	100	0	0.1905	4.5714	0.8343	0.1905	0.8343	N/A	0.1905	0.8343
VOC	5.5	0	0.0105	0.2514	0.0459	0.0105	0.0459	N/A	0.0105	0.0459
CO	84	0	0.1600	3.8400	0.7008	0.1600	0.7008	N/A	0.1600	0.7008
LEAD	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A	0.0000	0.0000

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

PT 10; SGMT 1

**Cold Finished Steel Bars
 from Hot Rolled Bar Process**

MDC (mmBtu/hr): 48 HEAT CONTENT (Btu/cft): 1050
 MDR (mmcft/hr): 0.0457 QTY BURNED (mmcft/yr): N/A

(Natural Gas Combustion)
 CNTRL DEV: NONE

Ts(°F): 75

PERMITTED OPERATING HRS: **8760** hr/yr

POLLUTANT	EF(lbs/mmcft)	CE (%)	POTENTIAL EMISSIONS						ALLOWABLE	
			BEFORE CONTROLS			AFTER CONTROLS			(lbs/hr)	(TPY)
			(lbs/hr)	(lbs/day)	(TPY)	(lbs/hr)	(TPY)	(gr/dscf)		
PM	7.6	0	0.3474	8.3383	1.5217	0.3474	1.5217	N/A	0.3474	1.5217
PM10	7.6	0	0.3474	8.3383	1.5217	0.3474	1.5217	N/A	0.3474	1.5217
SOx	0.6	0	0.0274	0.6583	0.1201	0.0274	0.1201	N/A	0.0274	0.1201
NOx	100	0	4.5714	109.7143	20.0229	4.5714	20.0229	N/A	4.5714	20.0229
VOC	5.5	0	0.2514	6.0343	1.1013	0.2514	1.1013	N/A	0.2514	1.1013
CO	84	0	3.8400	92.1600	16.8192	3.8400	16.8192	N/A	3.8400	16.8192
LEAD	0.0005	0	0.0000	0.0005	0.0001	0.0000	0.0001	N/A	0.0000	0.0001

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

includes Roller Hearth Furnaces #1 and #2 and Kemp Bar Heating Furnaces #3 and #7

Quantity Burned = (MDR) x (two thirds of 8760) x (30% average of capacity) = Two shifts per day @ average capacity

PT 11; SGMT 1

Nine (9) Space Heat Units

(Natural Gas Combustion)

CNTRL DEV: NONE

MDC (mmBtu/hr): 4.965

MDR (mmcft/hr): 0.0047

HEAT CONTENT (Btu/cft): 1050

QTY BURNED (mmcft/yr): N/A

Ts(°F): 110

PERMITTED OPERATING HRS: **8760** hr/yr

SCC NO. 1-05-001-06			POTENTIAL EMISSIONS						ALLOWABLE	
POLLUTANT	EF(lbs/mmcft)	CE (%)	BEFORE CONTROLS			AFTER CONTROLS			(lbs/hr)	(TPY)
			(lbs/hr)	(lbs/day)	(TPY)	(lbs/hr)	(TPY)	(gr/dscf)		
PM	7.6	0	0.0359	0.8625	0.1574	0.0359	0.1574	N/A	0.0359	0.1574
PM10	7.6	0	0.0359	0.8625	0.1574	0.0359	0.1574	N/A	0.0359	0.1574
SOx	0.6	0	0.0028	0.0681	0.0124	0.0028	0.0124	N/A	0.0028	0.0124
NOx	100	0	0.4729	11.3486	2.0711	0.4729	2.0711	N/A	0.4729	2.0711
VOC	5.5	0	0.0260	0.6242	0.1139	0.0260	0.1139	N/A	0.0260	0.1139
CO	84	0	0.3972	9.5328	1.7397	0.3972	1.7397	N/A	0.3972	1.7397
LEAD	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A	0.0000	0.0000

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

PT 12; SGMT 1

Hardening Furnace* - Heat Treating Emissions

CNTRL DEV: NONE

MDR (T/hr): 8.486

YEARLY PROD (T/yr): N/A

STACK ID (DIAM:HEIGHT): (3': 61')

FLOWRATE (ACFM): 13592

Ts(°F): 1650

PERMITTED OPERATING HRS: **8760** hr/yr

SCC NO. 3-04-022-01			POTENTIAL EMISSIONS						ALLOWABLE	
POLLUTANT	EF(LB/T)	CE (%)	BEFORE CONTROLS			AFTER CONTROLS			(lbs/hr)	(TPY)
			(lbs/hr)	(lbs/day)	(TPY)	(lbs/hr)	(TPY)	(gr/dscf)		
PM	0	0	0.0000	0.0000	0.0000	0.00000	0.00000	0.0000	0	0.0000
PM10	0	0	0.0000	0.0000	0.0000	0.00000	0.00000	0.0000	0	0.0000
SOx	0	0	0.0000	0.0000	0.0000	0.00000	0.00000	N/A	0	0.0000
NOx	0	0	0.0000	0.0000	0.0000	0.00000	0.00000	N/A	0	0.0000
VOC	0.1	0	0.8486	20.3664	3.7169	0.84860	3.71687	N/A	0.84860	3.7169
CO	0	0	0.0000	0.0000	0.0000	0.00000	0.00000	N/A	0	0.0000
LEAD	0	0	0.0000	0.0000	0.0000	0.00000	0.00000	N/A	0	0.0000

PT 12; SGMT 2

Hardening Furnace* - Natural Gas Combustion

CNTRL DEV: NONE

MDC (mmBtu/hr): 17.145

MDR (mmcft/hr): 0.0163

HEAT CONTENT (Btu/cft): 1050

QTY BURNED (mmcft/yr): N/A

Ts(°F):

PERMITTED OPERATING HRS: **8760** hr/yr

SCC NO. 3-04-900-33			POTENTIAL EMISSIONS						ALLOWABLE	
POLLUTANT	EF(lbs/mmcft)	CE (%)	BEFORE CONTROLS			AFTER CONTROLS			(lbs/hr)	(TPY)
			(lbs/hr)	(lbs/day)	(TPY)	(lbs/hr)	(TPY)	(gr/dscf)		
PM	7.6	0	0.1241	2.9783	0.5435	0.1241	0.5435	N/A	0.1241	0.5435
PM10	7.6	0	0.1241	2.9783	0.5435	0.1241	0.5435	N/A	0.1241	0.5435
SOx	0.6	0	0.0098	0.2351	0.0429	0.0098	0.0429	N/A	0.0098	0.0429
NOx	100	0	1.6329	39.1886	7.1519	1.6329	7.1519	N/A	1.6329	7.1519
VOC	5.5	0	0.0898	2.1554	0.3934	0.0898	0.3934	N/A	0.0898	0.3934
CO	84	0	1.3716	32.9184	6.0076	1.3716	6.0076	N/A	1.3716	6.0076
LEAD	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A	0.0000	0.0000

*Part of the Screw Hearth Line

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

Point Totals: Hardening Furnace

POLLUTANT	POTENTIAL EMISSIONS						ALLOWABLE	
	BEFORE CONTROLS			AFTER CONTROLS			(lbs/hr)	(TPY)
	(lbs/hr)	(lbs/day)	(TPY)	(lbs/hr)	(TPY)	(gr/dscf)		
PM	0.1241	2.9783	0.5435	0.1241	0.5435	N/A	0.1241	0.5435
PM10	0.1241	2.9783	0.5435	0.1241	0.5435	N/A	0.1241	0.5435
SOx	0.0098	0.2351	0.0429	0.0098	0.0429	N/A	0.0098	0.0429
NOx	1.6329	39.1886	7.1519	1.6329	7.1519	N/A	1.6329	7.1519
VOC	0.9384	22.5218	4.1102	0.9384	4.1102	N/A	0.9384	4.1102
CO	1.3716	32.9184	6.0076	1.3716	6.0076	N/A	1.3716	6.0076
LEAD	0.0000	0.0000	0.0000	0.0000	0.0000	N/A	0.0000	0.0000

PT 13; SGMT 1

Tempering Furnace* - Heat Treating Emissions

MDR (T/hr): 8.486
 YEARLY PROD (T/yr): N/A

STACK ID (DIAM:HEIGHT): (3': 61')
 FLOWRATE (ACFM): 8913
 Ts(°F): 1450

CNTRL DEV: NONE

PERMITTED OPERATING HRS: **8760** hr/yr

POLLUTANT	EF(LB/T)	CE (%)	POTENTIAL EMISSIONS						ALLOWABLE	
			BEFORE CONTROLS			AFTER CONTROLS			(lbs/hr)	(TPY)
			(lbs/hr)	(lbs/day)	(TPY)	(lbs/hr)	(TPY)	(gr/dscf)		
PM	0	0	0.0000	0.0000	0.0000	0.00000	0.00000	0.0000	0	0.0000
PM10	0	0	0.0000	0.0000	0.0000	0.00000	0.00000	0.0000	0	0.0000
SOx	0	0	0.0000	0.0000	0.0000	0.00000	0.00000	N/A	0	0.0000
NOx	0	0	0.0000	0.0000	0.0000	0.00000	0.00000	N/A	0	0.0000
VOC	0.1	0	0.8486	20.3664	3.7169	0.84860	3.71687	N/A	0.84860	3.7169
CO	0	0	0.0000	0.0000	0.0000	0.00000	0.00000	N/A	0	0.0000
LEAD	0	0	0.0000	0.0000	0.0000	0.00000	0.00000	N/A	0	0.0000

PT 13; SGMT 2

Tempering Furnace* - Natural Gas Combustion

MDC (mmBtu/hr): 12.42

HEAT CONTENT (Btu/cft): 1050

MDR (mmcft/hr): 0.0118

QTY BURNED (mmcft/yr): N/A

Ts(°F):

CNTRL DEV: NONE

PERMITTED OPERATING HRS: **8760** hr/yr

SCC NO. 3-04-900-33			POTENTIAL EMISSIONS						ALLOWABLE	
POLLUTANT	EF(lbs/mmcft)	CE (%)	BEFORE CONTROLS			AFTER CONTROLS			(lbs/hr)	(TPY)
			(lbs/hr)	(lbs/day)	(TPY)	(lbs/hr)	(TPY)	(gr/dscf)		
PM	7.6	0	0.0899	2.1575	0.3937	0.0899	0.3937	N/A	0.0899	0.3937
PM10	7.6	0	0.0899	2.1575	0.3937	0.0899	0.3937	N/A	0.0899	0.3937
SOx	0.6	0	0.0071	0.1703	0.0311	0.0071	0.0311	N/A	0.0071	0.0311
NOx	100	0	1.1829	28.3886	5.1809	1.1829	5.1809	N/A	1.1829	5.1809
VOC	5.5	0	0.0651	1.5614	0.2850	0.0651	0.2850	N/A	0.0651	0.2850
CO	84	0	0.9936	23.8464	4.3520	0.9936	4.3520	N/A	0.9936	4.3520
LEAD	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A	0.0000	0.0000

*Part of the Screw Hearth Line

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

Point Totals: Tempering Furnace

POLLUTANT	POTENTIAL EMISSIONS						ALLOWABLE	
	BEFORE CONTROLS			AFTER CONTROLS			(lbs/hr)	(TPY)
	(lbs/hr)	(lbs/day)	(TPY)	(lbs/hr)	(TPY)	(gr/dscf)		
PM	0.0899	2.1575	0.3937	0.0899	0.3937	N/A	0.0899	0.3937
PM10	0.0899	2.1575	0.3937	0.0899	0.3937	N/A	0.0899	0.3937
SOx	0.0071	0.1703	0.0311	0.0071	0.0311	N/A	0.0071	0.0311
NOx	1.1829	28.3886	5.1809	1.1829	5.1809	N/A	1.1829	5.1809
VOC	0.9137	21.9278	4.0018	0.9137	4.0018	N/A	0.9137	4.0018
CO	0.9936	23.8464	4.3520	0.9936	4.3520	N/A	0.9936	4.3520
LEAD	0.0000	0.0000	0.0000	0.0000	0.0000	N/A	0.0000	0.0000

PT 14; SGMT 1
Reservoir Tank Furnace*
 (Natural Gas Combustion)
 CNTRL DEV: NONE

MDC (mmBtu/hr): 1 HEAT CONTENT (Btu/cft): 1050
 MDR (mmcft/hr): 0.0010 QTY BURNED (mmcft/yr): N/A

Ts(°F): 75

PERMITTED OPERATING HRS: **8760** hr/yr

SCC NO. 3-04-900-33			POTENTIAL EMISSIONS						ALLOWABLE	
POLLUTANT	EF(lbs/mmcft)	CE (%)	BEFORE CONTROLS			AFTER CONTROLS			(lbs/hr)	(TPY)
			(lbs/hr)	(lbs/day)	(TPY)	(lbs/hr)	(TPY)	(gr/dscf)		
PM	7.6	0	0.0072	0.1737	0.0317	0.0072	0.0317	N/A	0.0072	0.0317
PM10	7.6	0	0.0072	0.1737	0.0317	0.0072	0.0317	N/A	0.0072	0.0317
SOx	0.6	0	0.0006	0.0137	0.0025	0.0006	0.0025	N/A	0.0006	0.0025
NOx	100	0	0.0952	2.2857	0.4171	0.0952	0.4171	N/A	0.0952	0.4171
VOC	5.5	0	0.0052	0.1257	0.0229	0.0052	0.0229	N/A	0.0052	0.0229
CO	84	0	0.0800	1.9200	0.3504	0.0800	0.3504	N/A	0.0800	0.3504
LEAD	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A	0.0000	0.0000

*Part of the Screw Hearth Line

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

PT 15; SGMT 1
Coil Drawing Line No. 5
 CNTRL DEV: Torit Cartridge-Type Dust Collector

MDR (T/hr): 0.04 STACK ID (DIAM:HEIGHT): (1.5': 32.5')
 YEARLY PROD (T/yr): N/A FLOWRATE (ACFM): 4414
 Ts(°F): 158

PERMITTED OPERATING HRS: **8760** hr/yr

SCC NO. 3-09-002-05			POTENTIAL EMISSIONS						ALLOWABLE	
POLLUTANT	EF(LB/T)	CE (%)	BEFORE CONTROLS			AFTER CONTROLS			(lbs/hr)	(TPY)
			(lbs/hr)	(lbs/day)	(TPY)	(lbs/hr)	(TPY)	(gr/dscf)		
PM	8	0.9999	0.3200	7.6800	1.4016	0.000032	0.000140	0.0000	0.9734	4.2635
PM10	6.88	0.9999	0.2752	6.6048	1.2054	0.000028	0.000121	0.0000	0	0.0000
SOx	0	0	0.0000	0.0000	0.0000	0.000000	0.000000	N/A	0	0.0000
NOx	0	0	0.0000	0.0000	0.0000	0.000000	0.000000	N/A	0	0.0000
VOC	0	0	0.0000	0.0000	0.0000	0.000000	0.000000	N/A	0	0.0000
CO	0	0	0.0000	0.0000	0.0000	0.000000	0.000000	N/A	0	0.0000
LEAD	0	0	0.0000	0.0000	0.0000	0.000000	0.000000	N/A	0	0.0000

EF = lbs/T of Abrasive used, MDR = T/hr of Abrasive used, Yearly Prod = T/yr Abrasive used.

326 IAC 6.8-1-2(a) - 0.03 gr/dscf

EF = (Air Quality Permits, Table 3-2) = 0.004 lbs PM/lb Abrasive for Steel Shot; 0.86 lb PM10/lb PM.

MDR = 160 tons/yr of shots used at 16 hr/day; 5 day/wk; 50 wk/yr: 0.04 tons/hr of steel shots used.

SOURCE TOTALS:

POLLUTANT	POTENTIAL EMISSIONS						ALLOWABLE	
	BEFORE CONTROLS			AFTER CONTROLS			(lbs/hr)	(TPY)
(lbs/hr)	(lbs/day)	(TPY)	(lbs/hr)	(TPY)	(gr/dscf)			
PM	2.8833	69.1995	12.6289	0.7397	3.2399	N/A	4.8480	21.2343
PM10	2.4666	59.1991	10.8038	0.7314	3.2034	N/A	1.6895	7.4002
SOx	0.0576	1.3823	0.2523	0.0576	0.2523	N/A	0.0576	0.2523
NOx	9.5993	230.3829	42.0449	9.5993	42.0449	N/A	9.5993	42.0449
VOC	2.2468	53.9223	9.8408	2.2468	9.8408	N/A	2.2468	9.8408
CO	8.0634	193.5216	35.3177	8.0634	35.3177	N/A	8.0634	35.3177
LEAD	0.0000	0.0005	0.0001	0.0000	0.0001	N/A	0.0000	0.0001

MSOP 089-21749-00220 *THIS PLANT IS CLASS "Major" ACCORDING TO THE POTENTIAL EMISSIONS.