



Mitchell E. Daniels, Jr.  
Governor

Thomas W. Easterly  
Commissioner

100 North Senate Avenue  
Indianapolis, Indiana 46204  
(317) 232-8603  
(800) 451-6027  
www.IN.gov/idem

TO: Interested Parties / Applicant  
DATE: September 25, 2007  
RE: Silberline Manufacturing Company, Inc / 001-24376-00059  
FROM: Nisha Sizemore  
Chief, Permits Branch  
Office of Air Quality

### Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3 and IC 13-15-6-1 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for considerations at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

Enclosures  
FNPER.dot 03/23/06



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100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
(317) 232-8603  
(800) 451-6027  
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## Minor Source Operating Permit Renewal OFFICE OF AIR QUALITY

**Silberline Manufacturing Company, Inc.  
2010 Guy Brown Drive  
Decatur, Indiana 46733**

(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.

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.

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.

Operation Permit No.: M 001-24376-00059	
Issued by: <i>Original signed by</i> Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: September 25, 2007  Expiration Date: September 25, 2012

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## SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). 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)]

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The Permittee owns and operates a stationary aluminum pigment manufacturing.

Source Address:	2010 Guy Brown Drive, Decatur, Indiana 46733
Mailing Address:	P.O. Box B, Tamaqua, Pennsylvania 18252
General Source Phone Number:	570-668-6050
SIC Code:	3399
County Location:	Adams
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Minor Source Operating Permit Program Minor Source, under PSD Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

### A.2 Emission Units and Pollution Control Equipment Summary

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This stationary source consists of the following emission units and pollution control devices:

- (a) One (1) aluminum pigment manufacturing process consisting of the following:
- (1) Thirty-two (32) closed mills, four were installed in 2006, three in 2005, ten in 2004, one in 2003, three in 2002, six in 2001, two in 2000, one in 1999, and two in 1998, exhausting to stacks S01 and S02.
  - (2) Fifty-three (53) closed screens, four were installed in 2003, thirteen in 2001, five in 1991, one in 1988, six in 1984, one in 1983, four in 1981, six in 1977, and thirteen in 1973.
  - (3) Two (2) distillation columns, installed in 1973.
  - (4) Seventeen (17) closed filter presses, two installed in 1997, two in 1996, one in 1995, three in 1994, two in 1993, five in 1992, and two in 1991, exhausting to stacks S02, S03. One (1) tube filter, installed in 2005 exhausting to stack S04.
  - (5) Fifteen (15) closed mixers, one installed in 2001, two in 2000, one in 1994, one in 1993, one in 1991, one in 1990, two in 1988, three in 1977, and three in 1972.
  - (6) Seven (7) centrifuges, one basket centrifuge installed in 1973; and six horizontal centrifuges, one installed in 1973, two in 1978, one in 1989, one in 1998, and one in 2002.
- (b) Six (6) mineral spirits storage tanks. Four of the tanks were constructed in 1987, one was constructed in 1993, and one was constructed in 2002.
- (c) One (1) parts washer (# 3416329) used for miscellaneous equipment/tool washing, constructed in 1998, with a maximum solvent consumption of 0.25 gallons per day.

- (d) One (1) boiler, identified by #113, constructed in 1973, with a maximum heat input capacity of 5.1 million Btu per hour, exhausting to stack S13.
- (e) One (1) boiler, identified by #114, constructed in 1977, with a maximum heat input capacity of 5.0 million Btu per hour, exhausting to stack S14.
- (f) One (1) boiler, identified by #115, constructed in 1989, with a maximum heat input capacity of 2.6 million Btu per hour, exhausting to stack S15.
- (g) One (1) boiler, identified by #116, constructed in 1988, with a maximum heat input capacity of 1.8 million Btu per hour, exhausting to stack S16.
- (h) Eight (8) space heaters, identified by # 117, installed in 1984, with a maximum heat input capacity of 0.8 million Btu per hour, each.
- (i) Seven (7) space heaters, identified by #118, installed in 1984, with a maximum heat input capacity of 0.4 million Btu per hour, each.
- (j) Five (5) space heaters, identified by #119, four of which were installed in 1994 and one in 1998, with a maximum heat input capacity of 0.39 million Btu per hour, each.

Maximum capacities and through puts not listed in the descriptions above, have been included in an OAQ confidential file.

## **SECTION B GENERAL CONDITIONS**

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

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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)]**

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- (a) This permit, M 001-24376-00059, 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, 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]**

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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**

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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, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

### **B.5 Severability**

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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**

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

### **B.7 Duty to Provide Information**

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- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ 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 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

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- (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)]

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- (a) An annual notification shall be submitted by an authorized individual to the Office of Air Quality 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
- (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 on or before the date it is due.

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

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- (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 upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ 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]**

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- (a) All terms and conditions of permits established prior to M 001-24376-00059 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)]**

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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]**

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- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ 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

- (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 it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ 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 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 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]**

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(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

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 within thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

**B.15 Source Modification Requirement**

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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][IC 13-17-3-2][IC 13-30-3-1]

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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, 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]**

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(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

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]**

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- (a) The Permittee shall pay annual fees to IDEM, OAQ within thirty (30) calendar days of receipt of a billing.
- (b) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

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

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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 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2]**

Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour.

**C.2 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, the fact that continuance of this permit is not consistent with purposes of this article.

**C.3 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 forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

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

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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.7 Stack Height [326 IAC 1-7]

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The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted by using ambient air quality modeling pursuant to 326 IAC 1-7-4.

C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

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- (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

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.9 Performance Testing [326 IAC 3-6]**

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- (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

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 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 not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ, 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.10 Compliance Requirements [326 IAC 2-1.1-11]**

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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.11 Compliance Monitoring [326 IAC 2-1.1-11]**

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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.12 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]**

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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.13 Instrument Specifications [326 IAC 2-1.1-11]**

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- (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.14 Actions Related to Noncompliance Demonstrated by a Stack Test**

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- (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, 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 retesting in one hundred twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do 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]**

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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, 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 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 makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner 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.17 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
- (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 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) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. 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.

- (e) The Permittee shall make the information required to be documented and maintained in accordance with (c) in Section C- General Record Keeping Requirements available for review upon a request for inspection by IDEM, OAQ. The general public may request this information from the IDEM, OAQ under 326 IAC 17.1.

## SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description:

- (a) One (1) aluminum pigment manufacturing process consisting of the following:
  - (1) Thirty-two (32) closed mills, four were installed in 2006, three in 2005, ten in 2004, one in 2003, three in 2002, six in 2001, two in 2000, one in 1999, and two in 1998, exhausting to stacks S01 and S02.
  - (2) Fifty-three (53) closed screens, four were installed in 2003, thirteen in 2001, five in 1991, one in 1988, six in 1984, one in 1983, four in 1981, six in 1977, and thirteen in 1973.
  - (3) Two (2) distillation columns, installed in 1977.
  - (4) Seventeen (17) closed filter presses, two installed in 1997, two in 1996, one in 1995, three in 1994, two in 1993, five in 1992, and two in 1991, exhausting to stacks S02, S03. One (1) tube filter, installed in 2005 exhausting to stack S04.
  - (5) Fifteen (15) closed mixers, one installed in 2001, two in 2000, one in 1994, one in 1993, one in 1991, one in 1990, two in 1988, three in 1977, and three in 1972.
  - (6) Seven (7) centrifuges, one basket centrifuge installed in 1973; and six horizontal centrifuges, one installed in 1973, two in 1978, one in 1989, one in 1998, and one in 2002.
- (b) Six (6) mineral spirits storage tanks. Four of the tanks were constructed in 1987, one was constructed in 1993, and one was constructed in 2002.
- (c) One (1) parts washer (# 3416329) used for miscellaneous equipment/tool washing, constructed in 1998, with a maximum solvent consumption of 0.25 gallons per day.

(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 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), the Permittee shall:

- (a) Equip the cleaner with a cover;
- (b) Equip the cleaner with an emissions unit for draining cleaned parts;
- (c) Close the degreaser cover whenever parts are not being handled in the cleaner;
- (d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
- (e) Provide a permanent, conspicuous label summarizing the operation requirements;
- (f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

#### D.1.2 Volatile Organic Compounds [326 IAC 8-3-5]

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- (a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), the Permittee shall ensure that the following control equipment requirements are met:
- (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if
    - (A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius ( $38^{\circ}\text{C}$ ) (one hundred degrees Fahrenheit ( $100^{\circ}\text{F}$ ));
    - (B) The solvent is agitated; or
    - (C) The solvent is heated.
  - (2) Equip the degreaser with a emissions unit for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury) or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius ( $38^{\circ}\text{C}$ ) (one hundred degrees Fahrenheit ( $100^{\circ}\text{F}$ )), then the drainage emissions unit must be internal such that articles are enclosed under the cover while draining. The drainage emissions unit may be external for applications where an internal type cannot fit into the cleaning system.
  - (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).
  - (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
  - (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury) or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius ( $38^{\circ}\text{C}$ ) (one hundred degrees Fahrenheit ( $100^{\circ}\text{F}$ )), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius ( $48.9^{\circ}\text{C}$ ) (one hundred twenty degrees Fahrenheit ( $120^{\circ}\text{F}$ )):
    - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
    - (B) A water cover when solvent is used is insoluble in, and heavier than, water.
    - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning emissions unit shall ensure that the following operating requirements are met:
- (1) Close the cover whenever articles are not being handled in the degreaser.

- (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
- (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

## SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description:

- (d) One (1) boiler, identified by #113, constructed in 1973, with a maximum heat input capacity of 5.1 million Btu per hour, exhausting to stack S13.
- (e) One (1) boiler, identified by #114, constructed in 1977, with a maximum heat input capacity of 5.0 million Btu per hour, exhausting to stack S14.
- (f) One (1) boiler, identified by #115, constructed in 1989, with a maximum heat input capacity of 2.6 million Btu per hour, exhausting to stack S15.
- (g) One (1) boiler, identified by #116, constructed in 1988, with a maximum heat input capacity of 1.8 million Btu per hour, exhausting to stack S16.

(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 Emission Limitations for Sources of Indirect Heating [326 IAC 6-2-3]

Pursuant to 326 IAC 6-2-3 (d) (Particulate Matter Emission Limitations for Sources of Indirect Heating), particulate matter (PM) emissions from Boiler #113 and Boiler #114 shall not exceed 0.33 and 0.17 pounds per MMBtu heat input, respectively.

The limits were calculated using the equation below:

$$Pt = \frac{C \times a \times h}{76.5 \times Q^{0.75} \times N^{0.25}}$$

Where C = 50 u/m<sup>3</sup>

Pt = pounds of particulate matter emitted per million Btu heat input (lb/MMBtu)

Q = total source maximum operating capacity rating (MMBtu/hr)

N = number of stacks

a = plume rise factor (0.67)

h = stack height, (47.5ft)

#### D.2.2 Particulate Emission Limitations for Sources of Indirect Heating [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate Matter Emission Limitations for Sources of Indirect Heating), the particulate matter (PM) emissions from Boiler # 116 and Boiler #115 shall not exceed to 0.57 and 0.54 pounds per MMBtu heat input, respectively.

These limits were calculated using the equation below:

$$Pt = \frac{1.09}{Q^{0.26}}$$

Where Pt = pounds of particulate matter emitted per million Btu heat input (lb/MMBtu)

Q = total source maximum operating capacity rating (MMBtu/hr)

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

**MINOR SOURCE OPERATING PERMIT (MSOP)  
CERTIFICATION**

Source Name: Silberline Manufacturing Company, Inc.  
Source Address 2010 Guy Brown Drive, Decatur, Indiana 46733  
Mailing Address: P.O. Box B, Tamaqua, Pennsylvania 18252  
MSOP No.: M 001-24376-00059

**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 Compliance 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:

Date:

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

**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).

<b>Company Name:</b>	Silberline Manufacturing Company Inc.
<b>Address:</b>	2010 Guy Brown Drive
<b>City:</b>	Decatur, Indiana 46733
<b>Phone #:</b>	570-668-6050
<b>MSOP #:</b>	M 001-24376-00059

I hereby certify that Silberline Manufacturing Company Inc.  still in operation.

:

no longer in operation.

I hereby certify that Silberline Manufacturing Company Inc.  in compliance with the requirements of MSOP M 001-24376-00059.

:

not in compliance with the requirements of MSOP M 001-24376-00059.

<b>Authorized Individual (typed):</b>
<b>Title:</b>
<b>Signature:</b>
<b>Date:</b>

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.

<b>Noncompliance:</b>

### MALFUNCTION REPORT

#### INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY FAX NUMBER - 317 233-6865

**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:

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

**SEMI-ANNUAL NATURAL GAS FIRED BOILER CERTIFICATION**

Source Name: Silberline Manufacturing Company Inc.  
Source Address: 2010 Guy Brown Drive, Decatur, Indiana 46733  
Mailing Address: P.O. Box B, Tamaqua, Pennsylvania 18252  
MSOP Permit No.: M 001-24376-00059

<input type="checkbox"/> Natural Gas Only <input type="checkbox"/> Alternate Fuel burned From: _____ To: _____
--

I certify that, based on information and belief formed after reasonable inquiry, the statements information in the document are true, accurate, and complete.
Signature: _____
Printed Name: _____
Title/Position: _____
Phone: _____
Date: _____

A certification by an authorized individual as defined by 326 IAC 2-1.1-1(1) is required for this report.

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

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

**Source Background and Description**

<b>Source Name:</b>	Silberline Manufacturing Company, Inc.
<b>Source Location:</b>	2010 Guy Brown Drive, Decatur, Indiana 46733
<b>County:</b>	Adams
<b>SIC Code:</b>	3399
<b>Permit Renewal No.:</b>	M 001-24376-00059
<b>Permit Reviewer:</b>	Timothy R. Pettifor

The Office of Air Quality (OAQ) has reviewed the operating permit renewal application from Silberline Manufacturing Company, Inc. relating to the operation of an aluminum pigment manufacturing facility.

**History**

On February 27, 2007, Silberline Manufacturing Company, Inc. submitted an application to the OAQ requesting to renew its operating permit. Silberline Manufacturing Company, Inc. was issued a MSOP on May 30, 2002.

**Permitted Emission Units and Pollution Control Equipment**

- (a) One (1) aluminum pigment manufacturing process consisting of the following:
- (1) Thirty-two (32) closed mills, four were installed in 2006, three in 2005, ten in 2004, one in 2003, three in 2002, six in 2001, two in 2000, one in 1999, and two in 1998, exhausting to stacks S01 and S02.
  - (2) Fifty-three (53) closed screens, four were installed in 2003, thirteen in 2001, five in 1991, one in 1988, six in 1984, one in 1983, four in 1981, six in 1977, and thirteen in 1973.
  - (3) Two (2) distillation columns, installed in 1973.
  - (4) Seventeen (17) closed filter presses, two installed in 1997, two in 1996, one in 1995, three in 1994, two in 1993, five in 1992, and two in 1991, exhausting to stacks S02, S03, and S04. One (1) tube filter installed in 2005 exhausting to stack S04.
  - (5) Fifteen (15) closed mixers, one installed in 2001, two in 2000, one in 1994, one in 1993, one in 1991, one in 1990, two in 1988, three in 1977, and three in 1972.
  - (6) Seven (7) centrifuges, one basket centrifuge installed in 1973; and six horizontal centrifuges, one installed in 1973, two in 1978, one in 1989, one in 1998, and one in 2002.
- (b) Six (6) mineral spirits storage tanks. Four of the tanks were constructed in 1987, one was constructed in 1993, and one was constructed in 2002.
- (c) One (1) parts washer (# 3416329) used for miscellaneous equipment/tool washing, constructed in 1998, with a maximum solvent consumption of 0.25 gallons per day.
- (d) One (1) boiler, identified by #113, constructed in 1973, with a maximum heat input capacity of 5.1 million Btu per hour, exhausting to stack S13.

- (e) One (1) boiler, identified by #114, constructed in 1977, with a maximum heat input capacity of 5.0 million Btu per hour, exhausting to stack S14.
- (f) One (1) boiler, identified by #115, constructed in 1989, with a maximum heat input capacity of 2.6 million Btu per hour, exhausting to stack S15.
- (g) One (1) boiler, identified by #116, constructed in 1988, with a maximum heat input capacity of 1.8 million Btu per hour, exhausting to stack S16.
- (h) Eight (8) space heaters, identified by # 117, installed in 1984, with a maximum heat input capacity of 0.8 million Btu per hour, each.
- (i) Seven (7) space heaters, identified by #118, installed in 1984, with a maximum heat input capacity of 0.4 million Btu per hour, each.
- (j) Five (5) space heaters, identified by #119, four of which were installed in 1994 and one in 1998, with a maximum heat input capacity of 0.39 million Btu per hour, each.

Maximum capacities and through puts, not listed in the descriptions above, have been included in an OAQ confidential file.

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

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

#### **Existing Approvals**

The source has been operating under MSOP 001-13746-00059, issued on May 30, 2002. All terms and conditions of the previous permit issued pursuant to permitting programs approved into the state implementation plan have been either incorporated as originally stated, revised, or deleted 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)
S01	Milling	1.17	1.5	192 max.	Ambient
S02	Milling and Presses	1.25	1.5	750 max. (Est.)	Ambient
S03	Presses	1.17	1.33	1000 max. (Est.)	Ambient
S04	Tube Filter	1.75	0.33	250 max. (Est.)	400 (Est.)
S13	Kewanee Boiler	2.58	1.17	2500 max. (Est.)	400 (Est.)
S14	Johnston Boiler	2.58	1.29	2500 max. (Est.)	400 (Est.)
S15	Burnham Boiler	2.83	2.5	1300 max. (Est.)	400 (Est.)
S16	Konus Kessel Boiler	2.08	2	1000 max. (Est.)	400 (Est.)

### Emission Calculations

The emission calculations contain confidential information regarding the raw material input and process design. Therefore, this information has been included in an OAQ confidential file. Calculations that are not confidential, are included in Appendix A of this document (pages 1-5).

### County Attainment Status

The source is located in Adams County.

Pollutant	Status
PM <sub>10</sub>	Attainment
PM <sub>2.5</sub>	Attainment
SO <sub>2</sub>	Attainment
NOx	Attainment
8-hour Ozone	Attainment
CO	Attainment
Lead	Attainment

- (a) Adams County has been classified as attainment for PM<sub>2.5</sub>. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM<sub>2.5</sub> emissions. Therefore, until the U.S. EPA adopts specific provisions for PSD review for PM<sub>2.5</sub> emissions, it has directed states to regulate PM<sub>10</sub> emissions as a surrogate for PM<sub>2.5</sub> emissions. 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 emissions and NOx emissions are considered when evaluating the rule applicability relating to ozone. Adams County has been designated as attainment for ozone. Therefore, VOC emissions and NOx 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.

- (c) Adams County has been classified as attainment or unclassifiable in Indiana for all other criteria pollutants. 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.
- (f) Fugitive Emissions:  
 Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive emissions are not counted toward determination of PSD applicability.

**Unrestricted Potential Emissions**

This table reflects the unrestricted potential emissions of the source.

Pollutant	tons/year
PM	0.2
PM-10	0.9
SO <sub>2</sub>	0.1
VOC	39.0
CO	9.5
NO <sub>x</sub>	11.3
Pb	negligible

HAPs	tons/year
Benzene	2.36 E-04
Dichlorobenzene	1.35 E-04
Formaldehyde	8.44 E-03
Hexane	2.03E-01
Toluene	3.83 E-04
Lead	5.63 E-05
Cadmium	1.24 E-04
Chromium	1.58 E-04
Manganese	4.28 E-05
Nickel	2.36 E-04
Cumene	1.18
Xylenes	2.76
Glycol Ethers	0.83
Total	4.98

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of all criteria pollutants is less than 100 tons per year. The source is not subject to the provisions of 326 IAC 2-7. Therefore, the source will be issued a MSOP.
- (b) 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 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.

- (c) Fugitive Emissions:  
 Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-7, fugitive emissions are not counted toward the determination of Part 70 applicability.

**Actual Emissions**

No previous emission data has been received from the source.

**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 <sub>2</sub>	VOC	CO	NO <sub>x</sub>	HAPs
Mills, Screens, Distillation Columns, Mixers, Centrifuges	--	--	--	27.2	--	--	4.77
Filter Presses, Tube Filter	--	--	--	5	--	--	--
Storage Tanks	--	--	--	5.9	--	--	--
Parts Washer	--	--	--	0.3	--	--	--
Boilers and Space Heaters	0.2	0.9	0.1	0.6	9.5	11.3	2.12 E-01
Total Emissions	0.2	0.9	0.1	39.0	9.5	11.3	4.98

- (a) This existing stationary source is not major for PSD because the emissions of each criteria pollutant and PM are less than two hundred fifty (<250) tons per year, and it is not one of the twenty-eight (28) listed source categories.
- (b) Fugitive Emissions:  
 Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, fugitive emissions are not counted toward the determination of PSD applicability.

**Federal Rule Applicability**

- (a) The requirements of the New Source Performance Standard for Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, 40 CFR 60, Subpart Dc, are not included in the permit for the boilers because this source does not operate any boilers with a heat input capacity greater than or equal to 10 million Btu per hour.
- (b) The requirements of the New Source Performance Standard for Standards of Performance for Primary Aluminum Reduction Plants, 40 CFR 60, Subpart S, are not included in the permit for the aluminum pigment manufacturing process because this source does not manufacture aluminum by electrolytic reduction.
- (c) The requirements of the New Source Performance Standard for Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984, 40 CFR 60, Subpart Kb, are not included in the permit for the storage tanks because all of the storage tanks at this source have a storage capacity greater than 75 m<sup>3</sup> but less than 151 m<sup>3</sup>, storing a liquid with a maximum true vapor pressure of less than 15 kPa.

- (d) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for National Emission Standards for Halogenated Solvent Cleaning, 40 CFR Part 63, Subpart T, are not included in the permit for the parts washer because halogenated solvents are not used in these degreasing operations and it is not a major source for HAP's.

**State Rule Applicability - Entire Source**

326 IAC 2-2 (Prevention of Significant Deterioration (PSD))  
 The potential to emit of criteria pollutants and PM from the entire source is less than two-hundred fifty (250) tons per year. Therefore, the source is not a major source for 326 IAC 2-2 (PSD).

326 IAC 2-6 (Emission Reporting)  
 Revisions to 326 IAC 2-6 (Emission Reporting) became effective March 27, 2004. The Permittee is no longer required to submit an emissions statement; therefore, the emission statement is removed from the permit.

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 forty percent (40%) 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.

**State Rule Applicability – Individual Facilities**

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))  
 The operation of the mills, screens, distillation columns, filter presses, tube filter, mixers, centrifuges, storage tanks, parts washer, boilers, and space heaters will emit less than 10 tons per year of a single HAP and less than 25 tons per year of a combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply.

326 IAC 6-2-3 (Particulate Emission Limitations for Source of Indirect Heating)  
 Boilers #113 and #114 are subject to this rule because they were constructed in 1973 and 1977, respectively. Pursuant to this rule, the particulate matter (PM) from the following units shall be limited as follows:

Year	Unit	Q (MMBtu/hr)	Stack Height (ft)	Number of stacks	Pt (lb/MMBtu)
1973	#113	5.1	2.58	1	0.33
1977	#114	5.1 + 5.0 = 10.1	2.58	2	0.17

The above values were determined from the following equation:

$$Pt = \frac{C \times a \times h}{76.5 \times Q^{0.75} \times N^{0.25}}$$

Where C = 50 u/m<sup>3</sup>

Pt = pounds of particulate matter emitted per million Btu heat input (lb/MMBtu)  
 Q = total source maximum operating capacity rating (MMBtu/hr)  
 N = number of stacks  
 a = plume rise factor (0.67)  
 h = stack height (ft)

326 IAC 6-2-4 (Particulate Emissions Limitations for Sources of Indirect Heating)  
 Boilers #115 and #116 are subject to 326 IAC 6-2-4 (Particulate Emissions Limitations for Sources of Indirect Heating) because they were constructed in 1989 and 1988, respectively. Pursuant to this rule, the particulate matter emissions from boiler #115 and #116 shall be limited to 0.54 and 0.57 pounds per million British thermal units heat input, respectively. The particulate matter (PM) from the following units shall be limited as follows:

Year	Unit	Q (MMBtu/hr)	Pt (lb/MMBtu)
1988	#116	5.1 + 5.0 + 1.8 = 11.8	0.57
1989	#115	5.1 + 5.0 + 1.8 + 2.6 = 14.5	0.54

The above values were determined from the following equation:

$$Pt = \frac{1.09}{Q^{0.26}}$$

Where Pt = pounds of particulate matter emitted per million Btu heat input (lb/MMBtu)  
 Q = total source maximum operating capacity rating (MMBtu/hr)

326 IAC 8-3-2 (Organic Solvent Degreasing Operations)  
 The parts washer used for miscellaneous equipment/tool washing is subject to 326 IAC 8-3-2 because it was constructed after January 1, 1980 and it performs organic solvent degreasing operations.

326 IAC 8-3-5 (Cold Cleaner Degreaser Operation and Control)  
 The parts washer used for miscellaneous equipment/tool washing is subject to 326 IAC 8-3-5 because it was constructed after January 1, 1980 and it performs cold cleaner degreasing operations.

**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 February 27, 2007. Additional information was received on May 29 and June 4, 2007.

**Conclusion**

The operation of this aluminum pigment manufacturing facility shall be subject to the conditions of the attached MSOP Renewal No. M 001-24376-00059.

**Appendix A: Emissions Calculations**

**Natural Gas Combustion Only**

**MM BTU/HR <100**

**Small Industrial Boilers #113-116 and Space**

**Heaters # 117-119**

**Company Name:** Siberline Manufacturing Company, Inc.  
**Address City IN Zip:** 2010 Guy Brown Drive, Decatur, Indiana 46733  
**Permit Number:** M 001-24376-00059  
**Reviewer:** Timothy R. Pettifor  
**Date:** 8/7/07

Unit	Heat Input (MMBTU/hr)
#113	5.1
#114	5
#115	2.6
#116	1.8
#117	6.4
#118	2.8
#119	1.95
Total	25.65

Heat Input Capacity

MMBtu/hr

25.7

Potential Throughput

MMCF/yr

225.1

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	1.9	7.6	0.6	100.0 **see below	5.5	84.0
Potential Emission in tons/yr	0.2	0.9	0.1	11.3	0.6	9.5

\*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.

\*\*Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

**Methodology**

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

See page 2 for HAPs emissions calculations.

**Appendix A: Emissions Calculations  
Natural Gas Combustion Only  
MM BTU/HR <100  
Small Industrial Boilers #113-116  
and Space Heaters #117-119  
HAPs Emissions**

**Company Name:** Siberline Manufacturing Company, Inc.  
**Address City IN Zip:** 2010 Guy Brown Drive, Decatur, Indiana 46733  
**Permit Number:** M001-24376-00059  
**Reviewer:** Timothy R. Pettifor  
**Date:** 8/7/07

HAPs - Organics					
Emission Factor in lb/MMcf	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03
Potential Emission in tons/yr	2.364E-04	1.351E-04	8.442E-03	2.026E-01	3.827E-04

  

HAPs - Metals					
Emission Factor in lb/MMcf	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03
Potential Emission in tons/yr	5.628E-05	1.238E-04	1.576E-04	4.278E-05	2.364E-04
				Total HAPs (tons/year)	2.120E-01

Methodology is the same as page 1.

The five highest organic and metal HAPs emission factors are provided above.  
 Additional HAPs emission factors are available in AP-42, Chapter 1.4.

**Appendix A: Emission Calculations  
Degreasing Operations  
(VOC)**

Page 3 of 5 TSD, App. A

**Company Name:** Siberline Manufacturing Company, Inc.  
**Address:** 2010 Guy Brown Drive, Decatur, Indiana 46733  
**Permit #:** M 001-024376-00059  
**Reviewer:** Timothy R. Pettifor  
**Date:** 8/7/07

Solvent Consumption:	0.25 gallons/day
Solvent Density:	6.8 lbs/gallon
Percent Volatillity:	100%

VOC Emissions:  
 $0.25 \text{ gallons/day} \times 6.8 \text{ lbs/gallon} = 1.7 \text{ lbs/day}$   
 $1.7 \text{ lbs/day} \times 1 \text{ day/24 hrs} = 0.071 \text{ lbs/hr}$   
 $0.071 \text{ lbs/hr} \times 1 \text{ ton/2000 lbs} \times 8760 \text{ hrs/year} = 0.311 \text{ tons/year}$

**Appendix A: Emission Summary**  
**Uncontrolled Potential to Emit (tons/yr)**

**Company Name:** Silberline Manufacturing Co., Inc.  
**Address:** 2010 Guy Brown Drive  
**Permit #:** M 001-24376-00059  
**Reviewer:** Timothy R. Pettifor  
**Date:** 8/7/07

Uncontrolled Potential to Emit (tons/year)																				
Process/ Emission Unit	PM	PM10	SO2	NOx	VOC	CO	Pb	Ben- zene	Dichloro- Benzene	Form- aldehyde	Hex- ane	Tolu- ene	Cd	Cr	Mn	Ni	Cu- mene	Xy- lene	Glycol Ether	Total HAP's
*Mills, Screens, Distillation, Mixers	-	-	-	-	27.2	-	-	-	-	-	-	-	-	-	-	-	1.18	2.76	0.83	
*Filter Presses	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
*Storage Tanks	-	-	-	-	5.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Parts Washer	-	-	-	-	0.31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Boilers & Space Heaters	0.2	0.9	0.1	11.3	0.6	9.5	5.63 E-05	2.36 E-04	1.35 E-04	8.44 E-03	2.03 E-01	3.83 E-04	1.24 E-04	1.58 E-04	4.28 E-05	2.36 E-04	-	-	-	
<b>Total</b>	<b>0.2</b>	<b>0.9</b>	<b>0.1</b>	<b>11.3</b>	<b>39</b>	<b>9.5</b>	<b>5.63 E-05</b>	<b>2.36 E-04</b>	<b>1.35 E-04</b>	<b>8.44 E-03</b>	<b>2.03 E-01</b>	<b>3.83 E-04</b>	<b>1.24 E-04</b>	<b>1.58 E-04</b>	<b>4.28 E-05</b>	<b>2.36 E-04</b>	<b>1.18</b>	<b>2.76</b>	<b>0.83</b>	<b>4.98</b>

\*Calculations are based on production data contained in an OAQ confidential file.

**Appendix A: Limited Emissions (tons/year)**

**Company Name:** Silberline Manufacturing Co., Inc.  
**Address:** 2010 Guy Brown Drive  
**Permit #:** M 001-24376-00059  
**Reviewer:** Timothy R. Pettifor  
**Date:** 8/7/07

Limited Potential to Emit (tons/year)																				
Process/ Emission Unit	PM	PM10	SO2	NOx	VOC	CO	PB	Ben- zene	Dichloro- Benzene	Form- aldehyde	Hex- ane	Tolu- ene	Cd	Cr	Mn	Ni	Cu- mene	Xy- lene	Glycol Ether	Total HAP's
*Mills, Screens, Distillation, Mixers	-	-	-	-	27.2	-	-	-	-	-	-	-	-	-	-	-	1.18	2.76	0.83	
Filter Presses	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Storage Tanks	-	-	-	-	5.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Parts Washer	-	-	-	-	0.31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Boilers & Space Heaters	0.2	0.9	0.1	11.3	0.6	9.5	5.63 E-05	2.36 E-04	1.35 E-04	8.44 E-03	2.03 E-01	3.83 E-04	1.24 E-04	1.58 E-04	4.28 E-05	2.36 E-04	-	-	-	
<b>Total</b>	<b>0.2</b>	<b>0.9</b>	<b>0.1</b>	<b>11.3</b>	<b>39</b>	<b>9.5</b>	<b>5.63 E-05</b>	<b>2.36 E-04</b>	<b>1.35 E-04</b>	<b>8.44 E-03</b>	<b>2.03 E-01</b>	<b>3.83 E-04</b>	<b>1.24 E-04</b>	<b>1.58 E-04</b>	<b>4.28 E-05</b>	<b>2.36 E-04</b>	<b>1.18</b>	<b>2.76</b>	<b>0.83</b>	<b>4.98</b>

\*Calculations are based on production data contained in an OAQ confidential file.