



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: March 13, 2012

RE: Silgan Containers / 089-31249-00202

FROM: Matthew Stuckey, Branch 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, 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 4-21.5-3-7 and IC 13-15-6-1(b) or IC 13-15-6-1(a) 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, Suite N 501E, Indianapolis, IN 46204.

For an **initial Title V Operating Permit**, a petition for administrative review must be submitted to the Office of Environmental Adjudication within **thirty (30)** days from the receipt of this notice provided under IC 13-15-5-3, pursuant to IC 13-15-6-1(b).

For a **Title V Operating Permit renewal**, a petition for administrative review must be submitted to the Office of Environmental Adjudication within **fifteen (15)** days from the receipt of this notice provided under IC 13-15-5-3, pursuant to IC 13-15-6-1(a).

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.

Pursuant to 326 IAC 2-7-18(d), any person may petition the U.S. EPA to object to the issuance of an initial Title V operating permit, permit renewal, or modification within sixty (60) days of the end of the forty-five (45) day EPA review period. Such an objection must be based only on issues that were raised with reasonable specificity during the public comment period, unless the petitioner demonstrates that it was impracticable to raise such issues, or if the grounds for such objection arose after the comment period.

To petition the U.S. EPA to object to the issuance of a Title V operating permit, contact:

U.S. Environmental Protection Agency
401 M Street
Washington, D.C. 20406

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.



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**Part 70 Operating Permit Renewal
OFFICE OF AIR QUALITY**

**Silgan Containers Manufacturing Corporation
2501 165th Street
Hammond, Indiana 46320**

(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.

The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. Noncompliance with any provision of this permit, except any provision specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

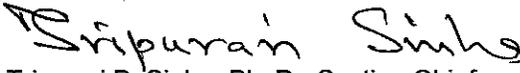
Operation Permit No.: T089-31249-00202	
Issued by:  Tripurari P. Sinha, Ph. D., Section Chief Permits Branch Office of Air Quality	Issuance Date: March 13, 2012 Expiration Date: March 13, 2017

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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 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-7-4(c)][326 IAC 2-7-5(15)][326 IAC 2-7-1(22)]

The Permittee owns and operates a stationary, metal coil coating for can manufacturers operation that coats steel and aluminum coils.

Source Address:	2501 165th Street, Hammond, Indiana 46320
General Source Phone Number:	219-845-1500
SIC Code:	3479 & 3411 – Metal Coil Coating for Can Manufacturers Coated Steel and Aluminum Coils
County Location:	Lake
Source Location Status:	Nonattainment for PM _{2.5} standard Attainment for all other criteria pollutants
Source Status:	Part 70 Operating Permit Program Major Source, under PSD Rules Minor Source for NA NSR for PM _{2.5} Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

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

- (a) One (1) Coil Coating Line, identified as Oven and oxidizer, constructed in 1957, with a maximum line speed of 600 ft/min and maximum heat input rate of 44 MMBtu/hr and 10.4 MMBtu/hr, respectively (total combined capacity 54.4 MMBtu/hr), natural gas-fired only. The application method is roll coating. The VOC emissions from this line are controlled by one (1) regenerative thermal oxidizer, constructed in 2007, which exhausts to stack, identified as OX1. This line also includes ten (10) mixing tanks, identified as MT 1 – MT 10, constructed in 1984, each with a maximum capacity of 290 gallons.
- (b) Seven (7) Indoor Vertical, Fixed-Roof Storage Tanks, identified as Tanks 1 – 7, Tanks 1 – 5 each with a maximum capacity of 12,000 gallons, constructed in 1970, and Tanks 6 & 7 each with a maximum capacity of 10,000 gallons, constructed in 1995, venting to TV 1 – TV 7, respectively. These seven (7) tanks are used to store various solvents and coatings.

A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)]
[326 IAC 2-7-5(15)]

This stationary source also includes the following insignificant activities which are specifically regulated, as defined in 326 IAC 2-7-1(21):

- (a) Two (2) Closed Top Degreasers (20 and 55 gallon capacity) emitting less than 1 lb/day of volatile organic compounds. [326 IAC 8-3-2 & 326 IAC 8-3-5]

A.4 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

- (a) It is a major source, as defined in 326 IAC 2-7-1(22);
- (b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-7-1]

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 2-7) shall prevail.

B.2 Permit Term [326 IAC 2-7-5(2)][326 IAC 2-1.1-9.5][326 IAC 2-7-4(a)(1)(D)][IC 13-15-3-6(a)]

- (a) This permit, T089-31249-00202, 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 or of permits issued pursuant to Title IV of the Clean Air Act and 326 IAC 21 (Acid Deposition Control).
- (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, including any permit shield provided in 326 IAC 2-7-15, 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 [326 IAC 2-7-7] [IC 13-17-12]

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 [326 IAC 2-7-5(5)]

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 [326 IAC 2-7-5(6)(D)]

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

B.7 Duty to Provide Information [326 IAC 2-7-5(6)(E)]

- (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. 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 [326 IAC 2-7-4(f)][326 IAC 2-7-6(1)][326 IAC 2-7-5(3)(C)]

- (a) A certification required by this permit meets the requirements of 326 IAC 2-7-6(1) if:
 - (1) it contains a certification by a "responsible official" as defined by 326 IAC 2-7-1(34), and
 - (2) the certification states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) The Permittee may use the attached Certification Form, or its equivalent with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) A "responsible official" is defined at 326 IAC 2-7-1(34).

B.9 Annual Compliance Certification [326 IAC 2-7-6(5)]

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than April 15 of each year to:

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

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Air Enforcement Branch - Indiana (AE-17J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

- (b) The annual compliance certification report 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) The annual compliance certification report shall include the following:

- (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
- (2) The compliance status;
- (3) Whether compliance was continuous or intermittent;
- (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); and
- (5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ may require to determine the compliance status of the source.

The submittal by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

B.10 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)][326 IAC 2-7-6(1) and (6)][326 IAC 1-6-3]

- (a) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:
 - (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.

The Permittee shall implement the PMPs.

- (b) If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, 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.

If, due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

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

The PMP extension notification does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

The Permittee shall implement the PMPs.

- (c) 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. The PMPs and their submittal do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).
- (d) 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 Emergency Provisions [326 IAC 2-7-16]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:
 - (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
 - (2) The permitted facility was at the time being properly operated;
 - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
 - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, or Northwest Regional Office within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance and Enforcement Branch), or
Telephone Number: 317-233-0178 (ask for Office of Air Quality, Compliance and Enforcement Branch)
Facsimile Number: 317-233-6865
Northwest Regional Office phone: (219) 757-0265; fax: (219) 757-0267.

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

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

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-7-5(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
 - (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
 - (e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(9) be revised in response to an emergency.

- (f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.
- (g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

B.12 Permit Shield [326 IAC 2-7-15][326 IAC 2-7-20][326 IAC 2-7-12]

- (a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that either the applicable requirements are included and specifically identified in this permit or the permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable. The Indiana statutes from IC 13 and rules from 326 IAC, referenced 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 Part 70 permit under 326 IAC 2-7 or for applicable requirements for which a permit shield has been granted.

This permit shield does not extend to applicable requirements which are promulgated after the date of issuance of this permit unless this permit has been modified to reflect such new requirements.

- (b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.
- (c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.
- (d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:
 - (1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;
 - (2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;

- (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and
- (4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.
- (e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).
- (f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]
- (g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(8)]

B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5][326 IAC 2-7-10.5]

- (a) All terms and conditions of permits established prior to T089-31249-00202 and issued pursuant to permitting programs approved into the state implementation plan have been either:
 - (1) incorporated as originally stated,
 - (2) revised under 326 IAC 2-7-10.5, or
 - (3) deleted under 326 IAC 2-7-10.5.
- (b) Provided that all terms and conditions are accurately reflected in this permit, all previous registrations and permits are superseded by this Part 70 operating permit, except for permits issued pursuant to Title IV of the Clean Air Act and 326 IAC 21 (Acid Deposition Control)

B.14 Termination of Right to Operate [326 IAC 2-7-10][326 IAC 2-7-4(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 nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-7-3 and 326 IAC 2-7-4(a).

B.15 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)][326 IAC 2-7-8(a)][326 IAC 2-7-9]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:

- (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]
- (c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

B.16 Permit Renewal [326 IAC 2-7-3][326 IAC 2-7-4][326 IAC 2-7-8(e)]

- (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 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permit Administration and Support Section, 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 nine (9) months 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 2-7 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, pursuant to 326 IAC 2-7-4(a)(2)(D), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.17 Permit Amendment or Modification [326 IAC 2-7-11][326 IAC 2-7-12] [40 CFR 72]

- (a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.
- (b) Pursuant to 326 IAC 2-7-11(b) and 326 IAC 2-7-12(a), administrative Part 70 operating permit amendments and permit modifications for purposes of the acid rain portion of a Part 70 permit shall be governed by regulations promulgated under Title IV of the Clean Air Act. [40 CFR 72]
- (c) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

- (d) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

**B.18 Permit Revision Under Economic Incentives and Other Programs
[326 IAC 2-7-5(8)][326 IAC 2-7-12(b)(2)]**

- (a) No Part 70 permit revision or notice shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.
- (b) Notwithstanding 326 IAC 2-7-12(b)(1) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

B.19 Operational Flexibility [326 IAC 2-7-20][326 IAC 2-7-10.5]

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b),(c), or (e) without a prior permit revision, if each of the following conditions is met:

- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
- (2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;
- (3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
- (4) The Permittee notifies the:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

- (5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-7-20(b),(c), or (e). The Permittee shall make such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ in the notices specified in 326 IAC 2-7-20(b)(1), (c)(1), and (e)(2).

- (b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:
 - (1) A brief description of the change within the source;
 - (2) The date on which the change will occur;
 - (3) Any change in emissions; and
 - (4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted is not considered an application form, report or compliance certification. Therefore, the notification by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) Emission Trades [326 IAC 2-7-20(c)]
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).
- (d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAQ, or U.S. EPA is required.
- (e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.
- (f) This condition does not apply to emission trades of SO₂ or NO_x under 326 IAC 21 or 326 IAC 10-4.

B.20 Source Modification Requirement [326 IAC 2-7-10.5]

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

B.21 Inspection and Entry [326 IAC 2-7-6][IC 13-14-2-2][IC 13-30-3-1][IC 13-17-3-2]

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 Part 70 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 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 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 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.22 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

- (a) The Permittee must comply with the requirements of 326 IAC 2-7-11 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
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)][326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.
- (b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) 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.24 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314] [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 2-7-5(1)]

C.1 Opacity [326 IAC 5-1]

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

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

C.2 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.3 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

The Permittee shall not operate an incinerator except as provided in 326 IAC 4-2 or in this permit. The Permittee shall not operate a refuse incinerator or refuse burning equipment except as provided in 326 IAC 9-1-2 or in this permit.

C.4 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). 326 IAC 6-4-2(4) is not federally enforceable.

C.5 Fugitive Particulate Matter Emissions [326 IAC 6.8-10-3]

Pursuant to 326 IAC 6.8-10-3 (formerly 326 IAC 6-1-11.1) (Lake County Fugitive Particulate Matter Control Requirements), the particulate matter emissions from source wide activities shall meet the following requirements:

- (a) The average instantaneous opacity of fugitive particulate emissions from a paved road shall not exceed ten percent (10%).
- (b) The average instantaneous opacity of fugitive particulate emissions from an unpaved road shall not exceed ten percent (10%).
- (c) The opacity of fugitive particulate emissions from exposed areas shall not exceed ten percent (10%) on a six (6) minute average.

- (d) The opacity of fugitive particulate emissions from continuous transfer of material onto and out of storage piles shall not exceed ten percent (10%) on a three (3) minute average.
- (e) The opacity of fugitive particulate emissions from storage piles shall not exceed ten percent (10%) on a six (6) minute average.
- (f) There shall be a zero (0) percent frequency of visible emission observations of a material during the inplant transportation of material by truck or rail at any time.
- (g) The opacity of fugitive particulate emissions from the inplant transportation of material by front end loaders and skip hoists shall not exceed ten percent (10%).
- (h) Material processing facilities shall include the following:
 - (1) There shall be a zero (0) percent frequency of visible emission observations from a building enclosing all or part of the material processing equipment, except from a vent in the building.
 - (2) The PM₁₀ emissions from building vents shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.
 - (3) The PM₁₀ stack emissions from a material processing facility shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.
 - (4) The opacity of fugitive particulate emissions from the material processing facilities, except a crusher at which a capture system is not used, shall not exceed ten percent (10%) opacity.
 - (5) The opacity of fugitive particulate emissions from a crusher at which a capture system is not used shall not exceed fifteen percent (15%).
- (i) The opacity of particulate emissions from dust handling equipment shall not exceed ten percent (10%).
- (j) Material transfer limits shall be as follows:
 - (1) The average instantaneous opacity of fugitive particulate emissions from batch transfer shall not exceed ten percent (10%).
 - (2) Where adequate wetting of the material for fugitive particulate emissions control is prohibitive to further processing or reuse of the material, the opacity shall not exceed ten percent (10%), three (3) minute average.
 - (3) Slag and kish handling activities at integrated iron and steel plants shall comply with the following particulate emissions limits:

- (A) The opacity of fugitive particulate emissions from transfer from pots and trucks into pits shall not exceed twenty percent (20%) on a six (6) minute average.
- (B) The opacity of fugitive particulate emissions from transfer from pits into front end loaders and from transfer from front end loaders into trucks shall comply with the fugitive particulate emission limits in 326 IAC 6.8-10-3(9).
- (k) Any facility or operation not specified in 326 IAC 6.8-10-3 shall meet a twenty percent (20%), three (3) minute average opacity standard.

C.6 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted. The provisions of 326 IAC 1-7-1(3), 326 IAC 1-7-2, 326 IAC 1-7-3(c) and (d), 326 IAC 1-7-4, and 326 IAC 1-7-5(a), (b), and (d) are not federally enforceable.

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
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 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 that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

- (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 Licensed 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 Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.

Testing Requirements [326 IAC 2-7-6(1)]

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

- (a) For performance testing required by this permit, a test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

- (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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).
- (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.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 2-7-5(1)][326 IAC 2-7-6(1)]

C.10 Compliance Monitoring [326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]

Unless otherwise specified in this permit, for all monitoring requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or of initial start-up, whichever is later, to begin such monitoring. If due to circumstances beyond the Permittee's control, any monitoring equipment required by this permit cannot be installed and operated no later than ninety (90) days after permit issuance or the date of initial startup, whichever is later, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

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

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date.

The notification which shall be submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units or emission units added through a source modification shall be implemented when operation begins.

C.11 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

- (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 [326 IAC 2-7-5][326 IAC 2-7-6]

C.12 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

- (a) The Permittee shall maintain the most recently submitted written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.13 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68]

If a regulated substance, as defined in 40 CFR 68, is present at a source in more than a threshold quantity, the Permittee must comply with the applicable requirements of 40 CFR 68.

C.14 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]

Upon detecting an excursion where a response step is required by the D Section or an exceedance of a limitation in this permit:

- (a) The Permittee shall take reasonable response steps to 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 excess emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:
 - (1) initial inspection and evaluation;
 - (2) recording that operations returned or are returning 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 normal or usual manner of operation.
- (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; and/or
- (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 record the reasonable response steps taken.

C.15 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5][326 IAC 2-7-6]

- (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 submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.
- (b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

C.16 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6]

- (a) In accordance with the compliance schedule specified in 326 IAC 2-6-3(b)(1), the Permittee shall submit by July 1 an emission statement covering the previous calendar year as follows:
 - (1) starting in 2004 and every three (3) years thereafter, and
 - (2) any year not already required under (1) if the source emits volatile organic compounds or oxides of nitrogen into the ambient air at levels equal to or greater than twenty-five (25) tons during the previous calendar year.
- (b) The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:
 - (1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);

- (2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1(32) ("Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for purpose of fee assessment.

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

The emission statement does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

C.17 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [326 IAC 2-2]
[326 IAC 2-3]

- (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, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.
- (c) If there is a reasonable possibility (as defined in 40 CFR 51.165(a)(6)(vi)(A), 40 CFR 51.165(a)(6)(vi)(B), 40 CFR 51.166(r)(6)(vi)(a), and/or 40 CFR 51.166(r)(6)(vi)(b)) that a "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(II)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a "major modification" (as defined in 326 IAC 2-2-1(ee) and/or 326 IAC 2-3-1(z)) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(rr) and/or 326 IAC 2-3-1(mm)), the Permittee shall comply with following:
 - (1) Before beginning actual construction of the "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(II)) at an existing emissions unit, document and maintain the following records:
 - (A) A description of the project.
 - (B) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project.

- (C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:
 - (i) Baseline actual emissions;
 - (ii) Projected actual emissions;
 - (iii) Amount of emissions excluded under section 326 IAC 2-2-1(rr)(2)(A)(iii) and/or 326 IAC 2-3-1 (mm)(2)(A)(iii); and
 - (iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.

- (d) If there is a reasonable possibility (as defined in 40 CFR 51.165(a)(6)(vi)(A) and/or 40 CFR 51.166(r)(6)(vi)(a)) that a "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(ll)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a "major modification" (as defined in 326 IAC 2-2-1(ee) and/or 326 IAC 2-3-1(z)) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(rr) and/or 326 IAC 2-3-1(mm)), the Permittee shall comply with following:
 - (1) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emissions unit identified in (1)(B) above; and
 - (2) Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.

C.18 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2][326 IAC 2-3]

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported except that a deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. This report shall be submitted not later than thirty (30) days after the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

- (b) The address for report submittal is:

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

- (c) 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.
- (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.
- (e) If the Permittee is required to comply with the recordkeeping provisions of (d) in Section C - General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1 (qq) and/or 326 IAC 2-3-1 (ll)) at an existing emissions unit, and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ:
 - (1) The annual emissions, in tons per year, from the project identified in (c)(1) in Section C- General Record Keeping Requirements exceed the baseline actual emissions, as documented and maintained under Section C- General Record Keeping Requirements (c)(1)(C)(i), by a significant amount, as defined in 326 IAC 2-2-1 (xx) and/or 326 IAC 2-3-1 (qq), for that regulated NSR pollutant, and
 - (2) The emissions differ from the preconstruction projection as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(ii).
- (f) The report for project at an existing emissions unit shall be submitted no later than sixty (60) days after the end of the year and contain the following:
 - (1) The name, address, and telephone number of the major stationary source.
 - (2) The annual emissions calculated in accordance with (d)(1) and (2) in Section C - General Record Keeping Requirements.
 - (3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3) and/or 326 IAC 2-3-2(c)(3).
 - (4) Any other information that the Permittee wishes to include in this report such as an explanation as to why the emissions differ from the preconstruction projection.

Reports required in this part shall be submitted to:

Indiana Department of Environmental Management

Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

- (g) 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.

Stratospheric Ozone Protection

C.19 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with applicable standards for recycling and emissions reduction.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (a) One (1) Coil Coating Line, identified as Oven and oxidizer, constructed in 1957, with a maximum line speed of 600 ft/min and maximum heat input rate of 44 MMBtu/hr and 10.4 MMBtu/hr, respectively (total combined capacity 54.4 MMBtu/hr), natural gas-fired only. The application method is roll coating. The VOC emissions from this line are controlled by one (1) regenerative thermal oxidizer, constructed in 2007, which exhausts to stack, identified as OX1. This line also includes ten (10) mixing tanks, identified as MT 1 – MT 10, constructed in 1984, each with a maximum capacity of 290 gallons.

(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 2-7-5(1)]

D.1.1 Particulate Matter less than 10 microns (PM10) Limitation [326 IAC 6.8-2-31]

Pursuant to 326 IAC 6.8-2-31 (Lake County PM10 emission requirements),

- (a) the PM10 emissions from the Coil Coater shall be limited to 0.007 lbs/MMBtu and 0.290 lbs/hr as specifically listed in 326 IAC 6.8-2-31; and
- (b) the PM10 emissions from the Stacks serving the incinerator shall be limited to 0.007 lbs/MMBtu and 0.310 lbs/hr as specifically listed in 326 IAC 6.8-2-31.

D.1.2 Volatile Organic Compounds (VOC) Limitations [326 IAC 8-2-4(b)]

Pursuant to 326 IAC 8-2-4(b) (Coil coating operations), the VOC emissions from the Coil Coating Line shall be limited to 2.6 pounds per gallon (excluding water) as specifically listed in 326 IAC 8-2-4(b).

D.1.3 Specific VOC Reduction Requirements for Lake, Porter, Clark and Floyd Counties [326 IAC 8-7]

Pursuant to 326 IAC 8-7-2 (Applicability), the Coil Coating Line, which has the potential to emit a total equal to or greater than ten (10) tons per year of VOCs in Lake County is subject to 326 IAC 8-7 Specific VOC Reduction Requirements for Lake, Porter, Clark, and Floyd Counties. Affected facilities must implement an emissions reduction measure as stated in 326 IAC 8-7-3. Pursuant to 326 IAC 8-7-3(1), Silgan has installed an add-on control system that achieves an overall control efficiency of ninety-eight percent (98%) as an emissions reduction measure. Operation of the regenerative thermal oxidizer at 98% overall control efficiency is required at all times in order for the Coil Coating Line to comply with this rule.

D.1.4 Hazardous Air Pollutants (HAPs) Minor Limits

The Hazardous Air Pollutants (HAPs) emissions shall be limited as follows:

- (a) The single Hazardous Air Pollutant (HAP) emissions from the Coil Coating Line, identified as Oven and oxidizer shall be limited to less than 9 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

- (b) The total Hazardous Air Pollutants (HAPs) emissions from the Coil Coating Line, identified as Oven and oxidizer, shall be limited to less than 24 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (c) The regenerative thermal oxidizer known as OX1 shall maintain a minimum overall HAP control efficiency of ninety-eight percent (98%).

Compliance with these limits in combination with the potential HAPs emissions from other emission units shall limit the source wide single HAP and total HAPs to less than 10 and 25 tons per year, respectively, and make this source an area source of HAPs.

D.1.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan (PMP) is required for this unit and its control device. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the preventive maintenance plan required by this condition.

Compliance Determination Requirements

D.1.6 Thermal Oxidizer Control

In order to ensure compliance with Conditions D.1.2, D.1.3 and D.1.4, the regenerative thermal oxidizer shall be in operation whenever the Coil Coating Line is in operation.

D.1.7 Volatile Organic Compounds (VOC) and Hazardous Air Pollutants (HAPs) [326 IAC 8-1-4][326 IAC 8-1-2(a)]

Compliance with the VOC and HAPs usage and content limitations contained in Conditions D.1.2 and D.1.4 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by preparing or obtaining from the manufacturer the copies of the "as supplied" and "as applied" VOC data sheets. IDEM, OAQ, reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

D.1.8 Volatile Organic Compounds (VOC) [326 IAC 8-1-2(b)] [326 IAC 8-7-3(3)]

Compliance with the VOC content and emission limitation shall be determined pursuant to 326 IAC 8-1-2(b) using formulation data supplied by the coating manufacturer.

$$E = L/(1 - L/D)$$

Where: L = Applicable emission limit from 326 IAC 8 in pounds of VOC per gallon of coating less water;

D = Density of VOC in coating in pounds per gallon of VOC (lbs/gal) as applied;

E = Equivalent emission limit in pounds of VOC per gallon of coating solids as applied.

The emission limit in 326 IAC 8-2-4 is 2.6 lbs VOC per gal less water. The standard coating density used in formulas in the can industry is 7.36 lbs/gal as cited in 326 IAC 8-1-2. Therefore, the VOC limitation in terms of Lbs VOC/gal solids is:

$$\text{lbs/VOC per gal of solids} = 2.6/(1 - 2.6/7.36) = 4.02 \text{ lbs VOC/ gal solids}$$

The equivalency emission limit is 4.02 pounds of VOC per gallon of coating solids as applied.

The emissions from the Coil Coater with Oven are controlled by one (1) regenerative thermal oxidizer. The overall rated control efficiency is 98%. This control efficiency is used to find the compliant limit of a coating's VOC content per gallon of coating solids.

(1-Overall Control Efficiency) X = emission limit of 4.02 lbs VOC per gal of solids (as applied)

where X = compliant coating limit in lbs VOC per gal of solids

$(1 - 0.98) X = 4.02$

X = 201 lbs VOC per gal of coating solids (as applied)

Coating Density (as applied) = Coating Density (as supplied) + (Dilution Solvent Density X Dilution Ratio) / (1 + Dilution Ratio)

lbs solids per gal of coating (as applied) = Coating Density (as supplied) * [Weight % Solids (as supplied) / 100] / (1 + Dilution Ratio)

Weight % Solids in coating (as applied) = lbs solids per gal coating / Coating Density (as applied) X 100

Weight % Solvent in coating (as applied) = 100 – Weight % Solids (as applied)

Volume % Solids in Coating (as applied) = Vol % Solids (as supplied) / (1 + Dilution Ratio)

lbs VOC/gal less water (as applied) = Density (as applied) X [Weight % Solvent (as applied) / 100]

lbs VOC/gal solids (as applied) = lbs VOC/gal less water (as applied) / [Volume % Solids (as applied) / 100]

The lbs VOC per gal of solids “as applied” is then compared to the limit for coil coating, considering the overall control efficiency, 201 lbs VOC per gal of coating solids (as applied). If lbs VOC per gal of solids “as applied” is less than this value, the coating “as applied” is compliant. If it is larger than this value, the coating “as applied” is not compliant and should not be used.

D.1.9 Hazardous Air Pollutants Calculations

In order to demonstrate compliance with the HAPs emission limitations in Condition D.1.4, the Permittee shall determine the single and total HAPs emissions for each month for Coil Coating Line, identified as Oven and oxidizer, using the following methodology:

HAP emissions = [(HAP usage) x (1.0 - Cf)]

Where:

Cf = 98% or control efficiency determined from the most recent IDEM approved stack test.

D.1.10 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

In order to determine compliance with Conditions D.1.2, D.1.3 and D.1.4, the Permittee shall perform overall control efficiency testing of the regenerative thermal oxidizer for VOC and HAP, and determine the 3-hour average temperature, fan amperage or duct pressure, utilizing methods as approved by the Commissioner. HAP testing shall be conducted for the HAP used at the source that has the lowest destruction efficiency, as estimated by the manufacturer and approved by IDEM. 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 the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligations with regard to the performance testing required by this condition.

Compliance Monitoring Requirements [326 IAC 2-7-5(1)][326 IAC 2-7-6(1)]

D.1.11 Thermal Oxidizer Parametric Monitoring [40 CFR 64]

- (a) In order to ensure compliance with Conditions D.1.2, D.1.3 and D.1.4, a continuous monitoring system shall be calibrated, maintained, and operated on each thermal oxidizer for measuring operating temperature. For the purposes of this condition, continuous monitoring means recording the temperature no less often than every 15 minutes when the unit is in operation. The output of this system shall be recorded as a three (3) hour average.
- (b) The RTO temperature shall be maintained at a three (3)-hour average temperature or temperature determined from the most recent IDEM approved stack test at all times that the coil coat line is in operation. On and after the date the stack test results are available, the minimum specified temperature is the three (3)-hour average temperature as observed during the most recent compliant stack test.
- (c) On and after the date the approved stack test results are available, the Permittee shall take appropriate response steps whenever the three (3) hour average temperature of the regenerative thermal oxidizer is below the three (3) hour average temperature as observed during the compliant stack test. A three (3) hour average temperature that is below the 3-hour average temperature as observed during the compliant stack test is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit. Section C - Response to Excursions or Exceedences contains the Permittee's obligation with regard to the reasonable response steps required by this condition

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.1.12 Record Keeping Requirement

- (a) To document compliance with Condition D.1.2, the Permittee shall maintain records in accordance with (1) through (8) below. Records maintained for (1) through (8) shall be taken daily and shall be complete and sufficient to establish compliance with the VOC usage limit and/or the VOC emission limit established in Condition D.1.2.

Silgan Containers Manufacturing Corporation shall be required to document compliance with the applicable (VOC) emission limitation based on a daily weighted average of all coatings applied. These records shall include the following:

- (1) Date of use
- (2) Coating identification (inside and outside material)
- (3) Process operating rate (GALS/MLFT for each coating)
- (4) Coating usage (application rate in weight /area, total gallons of coating used, total gallons of solids used)
- (5) Coating information (as supplied and as applied of the coating density, % by weight & volume of organic volatiles, % by weight & volume of solids, lbs-VOC/gal less water as applied, lbs-VOC/gal of solids, dilution solvent used, and the dilution solvent ratio)
- (6) Control equipment efficiency
- (7) VOC emissions calculations (total lbs-VOC before controls and total lbs-VOC after controls)
- (8) VOC emissions allowable

Sample calculations must also be included for the above items.

- (b) To document compliance with Condition D.1.2, the Permittee shall be required to keep monthly records of all cleaning solvents used.
- (c) To document compliance with Condition D.1.4, the Permittee shall maintain records in accordance with (1) through (4) below. These records shall be complete and sufficient to establish compliance with the twelve (12) month rolling total single and combination HAP emission limits established in Condition D.1.4. These records shall include the following:
 - (1) The HAP content of each coating as applied;
 - (2) The monthly amount of each coating used; and
 - (3) The 12-month rolling total of the input of each individual hazardous air pollutant and total of hazardous air pollutants.
- (d) To document compliance with Condition D.1.2, EPA Method 24 results, Material Safety Data Sheets (MSDS) or an equivalent document provided by the coating supplier shall be used to determine compliance with VOC content limits. The documents shall contain sufficient information to calculate the VOC content of the coatings in the units necessary to determine compliance of the coatings as applied.
- (e) To document compliance with Condition D.1.11, the Permittee shall maintain continuous records (on a three-hour average) of thermal oxidizer temperature.
- (f) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the record keeping required by this condition

D.1.13 Reporting Requirement

A quarterly summary of the information to document the compliance status with Condition D.1.4 shall be submitted using the reporting forms located at the end of this permit, or their equivalent, not later than thirty (30) days following the end of each calendar quarter. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34). Section C - General Reporting Requirements contains the Permittee's obligations with regard to the reporting required by this condition.

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (b) Seven (7) Indoor Vertical, Fixed-Roof Storage Tanks, identified as Tanks 1 – 7, Tanks 1 – 5 each with a maximum capacity of 12,000 gallons, constructed in 1970, and Tanks 6 & 7 each with a maximum capacity of 10,000 gallons, constructed in 1995, venting to TV 1 – TV 7, respectively. These seven (7) tanks are used to store various solvents and coatings.

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

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.2.1 Record Keeping and Reporting Requirements

To document compliance with 326 IAC 8-9-6(a), the owner or operator of each vessel subject to 326 IAC 8-9-6 shall keep all records required by subsection (b) for the life of the vessel. In accordance with 326 IAC 8-9-6(b), records of each vessel including the vessel identification number, dimensions, capacity, and a description of the emission control equipment shall be submitted to the address(es) listed in Section C – General Reporting Requirements, of this permit, upon request.

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Insignificant Activities

- (a) Two (2) Closed Top Degreasers (20 and 55 gallon capacity) emitting less than 1 lb/day of volatile organic compounds. [326 IAC 8-3-2 & 326 IAC 8-3-5]

(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 2-7-5(1)]

D.3.1 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

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

- (a) Equip the cleaner with a cover;
- (b) Equip the cleaner with a facility 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.3.2 Volatile Organic Compounds (VOC) [326 IAC 8-3-5]

(a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), for cold cleaner degreaser operations without remote solvent reservoirs, 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°C) (one hundred degrees Fahrenheit (100°F));
 - (B) The solvent is agitated; or
 - (C) The solvent is heated.

- (2) Equip the degreaser with a facility 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°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility 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°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°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 facility, 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.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
PART 70 OPERATING PERMIT
CERTIFICATION**

Source Name: Silgan Containers Manufacturing Corporation
Source Address: 2501 165th Street, Hammond, Indiana 46320
Part 70 Permit No.: T089-31249-00202

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 Certification Letter
- 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 AND ENFORCEMENT BRANCH
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
Phone: (317) 233-0178
Fax: (317) 233-6865**

**PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT**

Source Name: Silgan Containers Manufacturing Corporation
Source Address: 2501 165th Street, Hammond, Indiana 46320
Part 70 Permit No.: T089-31249-00202

This form consists of 2 pages

Page 1 of 2

- This is an emergency as defined in 326 IAC 2-7-1(12)
- The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and
 - The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16.

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency:
Describe the cause of the Emergency:

If any of the following are not applicable, mark N/A

Page 2 of 2

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N
Type of Pollutants Emitted: TSP, PM-10, SO ₂ , VOC, NO _x , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

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

Part 70 Quarterly Report

Source Name: Silgan Containers Manufacturing Corporation
 Source Address: 2501 165th Street, Hammond, Indiana 46320
 Part 70 Permit No.: T089-31249-00202
 Facility: Coil Coating Line and Oxidizer
 Parameter: HAPs
 Limit: less than nine (9) tons per twelve (12) consecutive month period with compliance determined at the end of each month period.

The Oxidizer shall have a minimum control efficiency of 98%.

QUARTER :

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	Single HAPs input This Month	Single HAPs input Previous 11 Months	Single HAPs input 12 Month Total
Month 1			
Month 2			
Month 3			

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.

Deviation has been reported on:

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

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

Part 70 Quarterly Report

Source Name: Silgan Containers Manufacturing Corporation
 Source Address: 2501 165th Street, Hammond, Indiana 46320
 Part 70 Permit No.: T089-31249-00202
 Facility: Coil Coating Line and Oxidizer
 Parameter: HAPs
 Limit: less than twenty-four (24) tons per twelve (12) consecutive month period with compliance determined at the end of each month period.

The Oxidizer shall have a minimum control efficiency of 98%.

QUARTER :

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	Total HAPs input This Month	Total HAPs input Previous 11 Months	Total HAPs input 12 Month Total
Month 1			
Month 2			
Month 3			

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.

Deviation has been reported on:

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

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

**PART 70 OPERATING PERMIT
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Silgan Containers Manufacturing Corporation
Source Address: 2501 165th Street, Hammond, Indiana 46320
Part 70 Permit No.: T089-31249-00202

Months: _____ to _____ Year: _____

Page 1 of 2

<p>This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements of this permit, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".</p>	
<input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.	
<input type="checkbox"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document (TSD) for a Part 70 Operating Permit Renewal

Source Background and Description

Source Name:	Silgan Containers Manufacturing Corporation
Source Location:	2501 165th Street, Hammond, IN 46320
County:	Lake
SIC Code:	3479 & 3411 - Metal Coil Coating for Can Manufacturers, Coated Steel and Aluminum Coils
Permit Renewal No.:	T089-31249-00202
Permit Reviewer:	Josiah Balogun

The Office of Air Quality (OAQ) has reviewed the operating permit renewal application from Silgan Containers Manufacturing Corporation relating to the operation of a metal coil coating for can manufacturers operation that coats steel and aluminum coils. On December 12, 2011, Silgan Containers Manufacturing Corporation submitted an application to the OAQ requesting to renew its operating permit. Silgan Containers Manufacturing Corporation was issued its first Part 70 Operating Permit Renewal T089-21146-00202 on October 2, 2007.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units:

- (a) One (1) Coil Coating Line, identified as Oven and oxidizer, constructed in 1957, with a maximum line speed of 600 ft/min and maximum heat input rate of 44 MMBtu/hr and 10.4 MMBtu/hr, respectively (total combined capacity 54.4 MMBtu/hr), natural gas-fired only. The application method is roll coating. The VOC emissions from this line are controlled by one (1) regenerative thermal oxidizer, constructed in 2007, which exhausts to stack, identified as OX1. This line also includes ten (10) mixing tanks, identified as MT 1 – MT 10, constructed in 1984, each with a maximum capacity of 290 gallons.
- (b) Seven (7) Indoor Vertical, Fixed-Roof Storage Tanks, identified as Tanks 1 – 7, Tanks 1 – 5 each with a maximum capacity of 12,000 gallons, constructed in 1970, and Tanks 6 & 7 each with a maximum capacity of 10,000 gallons, constructed in 1995, venting to TV 1 – TV 7, respectively. These seven (7) tanks are used to store various solvents and coatings.

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.

Emission Units and Pollution Control Equipment Removed From the Source

No equipment has been removed from this facility during this review process.

Insignificant Activities

The source also consists of the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (1) Space heaters, process heaters, or boilers using the following fuels.
 - (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour.
 - (b) Three (3) Rapid Engineering Spaceheaters, identified as AMU 1, AMU 2, and AMU 3, constructed in 1995, each rated at 9.65 MMBtu/hr and natural gas-fired only.
 - (c) Two (2) Dock Heaters No. 1 and No. 2, identified as Dock 1 and Dock 2, constructed in 1969, each rated at 0.75 MMBtu/hr and natural gas-fired only.
- (2) Equipment powered by internal combustion engines of capacity equal to or less than 500,000 Btu/hour, except where total capacity of equipment operated by one stationary source exceeds 2,000,000 Btu/hour.
- (3) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment.
- (4) Paved and unpaved roads and parking lots with public access.
- (5) Purging of gas lines and vessels that is related to routine maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process.
- (6) Emergency generators as follows: Diesel generators not exceeding 1600 horsepower.
- (7) Grinding and machining operations combined with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4000 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations.
- (8) A laboratory as defined in 326 IAC 2-7-1(21)(D).
- (9) Other categories with emissions below insignificant thresholds not specifically regulated:
 - (a) One (1) Roll Grinder emitting less than one (1) lb/day of particulate.
 - (b) One (1) Emergency Diesel Generator emitting less than 1 lb/day of products of combustion.
 - (c) One (1) Gasoline Generator/Welder emitting less than 1 lb/day of products of combustion.
 - (d) One (1) Roll Lathe with Dust Collector emitting less than 1 lb/day of particulate.
 - (e) One (1) Radial Arm Saw with Cyclone and Bag Filter emitting less than 1 lb/day of particulate.
 - (f) Two (2) Closed Top Degreasers (20 and 55 gallon capacity) emitting less than 1 lb/day of volatile organic compounds. [326 IAC 8-3-2 & 326 IAC 8-3-5]

Existing Approvals

Since the issuance of the Part 70 Operating Permit 089-21146-00202 on October 2, 2007, the source has constructed or has been operating under the following additional approvals:

- (a) Administrative Amendment Local Agency No. 089-28092-00202, issued on July 1, 2009; and
- (b) Administrative Amendment No. 089-28402-00202, issued on September 8, 2009.

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.

Emission Calculations

See Appendix A of this document for detailed emission calculations.

County Attainment Status

The source is located in Lake County.

Pollutant	Designation
SO ₂	Better than national standards.
CO	Attainment effective February 18, 2000, for the part of the city of East Chicago bounded by Columbus Drive on the north; the Indiana Harbor Canal on the west; 148 th Street, if extended, on the south; and Euclid Avenue on the east. Unclassifiable or attainment effective November 15, 1990, for the remainder of East Chicago and Lake County.
O ₃	Attainment effective May 11, 2010, for the 8-hour ozone standard. ¹
PM ₁₀	Attainment effective March 11, 2003, for the cities of East Chicago, Hammond, Whiting, and Gary. Unclassifiable effective November 15, 1990, for the remainder of Lake County.
NO ₂	Cannot be classified or better than national standards.
Pb	Not designated.

¹The U. S. EPA has acknowledged in both the proposed and final rulemaking for this redesignation that the anti-backsliding provisions for the 1-hour ozone standard no longer apply as a result of the redesignation under the 8-hour ozone standard. Therefore, permits in Lake County are no longer subject to review pursuant to Emission Offset, 326 IAC 2-3. Basic nonattainment designation effective federally April 5, 2005, for PM_{2.5}.

- (a) **Ozone Standards**
 Volatile organic compounds (VOC) and Nitrogen Oxides (NO_x) 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 NO_x emissions are considered when evaluating the rule applicability relating to ozone. Lake County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (b) **PM_{2.5}**
 U.S. EPA, in the Federal Register Notice 70 FR 943 dated January 5, 2005, has designated Lake County as nonattainment for PM_{2.5}. 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 a violation of the Clean Air Act, the OAQ is following the U.S. EPA's New Source Review Rule for PM_{2.5} promulgated on May 8, 2008. These rules became effective on July 15, 2008. Therefore, direct PM_{2.5} and SO₂ emissions were reviewed pursuant to the requirements of Nonattainment New Source Review, 326 IAC 2-1.1-5. See the State Rule Applicability – Entire Source section.

- (c) Other Criteria Pollutants
 Lake County has been classified as attainment or unclassifiable in Indiana for criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Fugitive Emissions

Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-7, and there is no applicable New Source Performance Standard that was in effect on August 7, 1980, fugitive emissions are not counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source.

Unrestricted Potential Emissions	
Pollutant	Tons/year
PM	0.71
PM ₁₀	2.85
PM _{2.5}	2.85
SO ₂	0.2
VOC	7152.21
CO	31.3
NO _x	37.2
GHGs as CO ₂ e	44,869.0

HAPs	tons/year
Benzene	0.004
Cumene	0.28
Ethylbenzene	3.23
Formaldehyde	0.07
Isophorone	2.50
Methyl isobutyl ketone	2.97
Naphthalene	0.15
Toluene	2.74
Xylenes (isomers & mixtures)	18.73
Total	30.67

NOTE: HAPs emissions are from T089-21146-00202, issued on October 2, 2007

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of VOC is equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7 and will be issued a Part 70 Operating Permit Renewal.
- (b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of GHGs is less than one hundred thousand (100,000) tons of CO₂ equivalent emissions (CO₂e) per year.
- (c) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is equal to or greater 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 equal to or greater than twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.

Actual Emissions

The following table shows the actual emissions as reported by the source. This information reflects the 2010 OAQ emission data.

Pollutant	Actual Emissions (tons/year)
PM	0
PM ₁₀	0
PM _{2.5}	0
SO ₂	--
VOC	43
CO	5
NO _x	5
Ammonia	0
Lead	0

Part 70 Permit Conditions

This source is subject to the requirements of 326 IAC 2-7, because the source met the following:

- (a) Emission limitations and standards, including those operational requirements and limitations that assure compliance with all applicable requirements at the time of issuance of Part 70 permits.
- (b) Monitoring and related record keeping requirements which assume that all reasonable information is provided to evaluate continuous compliance with the applicable requirements.

Potential to Emit After Issuance

The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any new control equipment is considered federally enforceable only after issuance of this Part 70 permit renewal, 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 of the Entire Source After Issuance of Renewal (tons/year)									
	PM	PM ₁₀ *	PM _{2.5} **	SO ₂	NO _x	VOC	CO	GHGs as CO ₂ e	Total HAPs	Worst Single HAP
Coil Coating Line-Surface Coating	0	0	0	0	0	89.35	0	0	< 24	< 9
Coil Coating Solvent Addition	0	0	0	0	0	39.10	0	0	---	---
Coil Coating Cleanup	0	0	0	0	0	14.54	0	0	---	---
Seven (7) Indoor vertical, Fixed-Roof Storage Tanks	0	0	0	0	0	0.27	0	0	---	---
Oven and Oxidizer	0.5	1.8	1.8	0.1	23.8	1.3	20	28,767	0.45	neg
Space Heaters	0.2	1.0	1.0	0.1	12.7	0.7	10.7	15,309	0.24	neg
Dock Heaters	0.012	0.05	0.05	0.004	0.7	0.036	0.6	793	0.012	neg
Total PTE of Entire Source	0.71	2.85	2.85	0.2	37.2	145.3	31.3	44,869	< 24.7	< 9
PSD Major Source Thresholds	250	250	250	250	250	250	250	100,000 CO ₂ e	NA	NA
negl. = negligible *Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant". **PM _{2.5} listed is direct PM _{2.5} .										

- (a) This existing stationary source is not major for PSD because the emissions of each regulated pollutant, excluding GHGs, are less than two hundred fifty (<250) tons per year, emissions of GHGs are less than one hundred thousand (<100,000) tons of CO₂ equivalent emissions (CO₂e) per year, and it is not in one of the twenty-eight (28) listed source categories.
- (b) This existing stationary source is not major for Nonattainment NSR for PM_{2.5} because the emissions of the nonattainment pollutant, PM_{2.5} is less than one hundred (<100) tons per year.

Federal Rule Applicability

- (a) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is applicable to each existing pollutant-specific emission unit that meets the following criteria:
- (1) has a potential to emit before controls equal to or greater than the major source threshold for the pollutant involved;
 - (2) is subject to an emission limitation or standard for that pollutant; and
 - (3) uses a control device, as defined in 40 CFR 64.1, to comply with that emission limitation or standard.

The following table is used to identify the applicability of each of the criteria, under 40 CFR 64.1, to each existing emission unit and specified pollutant subject to CAM:

Emission Unit / Pollutant	Control Device Used	Emission Limitation (Y/N)	Uncontrolled PTE (tons/year)	Controlled PTE (tons/year)	Major Source Threshold (tons/year)	CAM Applicable (Y/N)	Large Unit (Y/N)
Coil Coating Line - Surface Coating (VOC)	Y	Y	4,467.6	89.35	100	Y	N
Coil Coating Solvent Addition (VOC)	Y	Y	1955.2	39.1	100	Y	N
Coil Coating Cleanup (VOC)	Y	Y	727.1	14.54	100	Y	N
Coil Coating Line - Surface Coating (HAPs)	Y	Y	30.67	< 10/25	10/25	Y	N

Based on this evaluation, the requirements of 40 CFR Part 64, CAM are applicable to Coil Coating Line - Surface Coating, Coil Coating Solvent Addition and Coil Coating Cleanup (VOC) for VOC and Coil Coating Line - Surface Coating for HAPs. A CAM plan has been submitted and the Compliance Determination and Monitoring Requirements section includes a detailed description of the CAM requirements.

- (1) The 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 60.110b, Subpart Kb. The indoor Vertical, Fixed-Roof Storage Tanks 1 - 5 are not subject to the following requirements of the New Source Performance Standard 326 IAC 12 because they were constructed prior to June 11, 1973:
- (2) Indoor Vertical, Fixed-Roof Storage Tanks 6 & 7 and Mixing Tanks (MT1 – MT10) are not subject to the requirements of the New Source Performance Standard 326 IAC 12, (40 CFR 60.110b, Subpart Kb – 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).

Indoor Vertical, Fixed-Roof Storage Tanks 6 & 7 constructed in 1995 do not meet the applicability level of 40 m³ (10,567 gallons) pursuant to 60.110b(a).

Mixing Tanks (MT1 – MT10) constructed in 1984 also do not meet the applicability level of 40 m³ (10,567 gallons) pursuant to 60.110b(a).

- (3) This source is not subject to the requirements of the New Source Performance Standard, 326 IAC 12, (40 CFR 60.50, Subpart E – Standards of Performance for Incinerators) because it does not have a solid waste incinerator.
- (4) This source is not subject to the requirements of the New Source Performance Standard, 326 IAC 12, (40 CFR 60.460, Subpart TT – Standards of Performance for Metal Coil Surface Coating) because the affected facility, the Coil Coating Line, by definition has not been constructed, modified, or reconstructed after January 5, 1981.
- (5) This source is not subject to the requirements of the New Source Performance Standard 326 IAC 12, (40 CFR 60.490, Subpart WW – Standards of Performance for the Beverage Can Surface Coating Industry) because the affected facility, the Coil Coating Line is not one of the affected facilities to which Subpart WW applies. Also, by definition the Coil Coating Line has not been constructed, modified, or reconstructed after November 26, 1980.
- (6) This source is not subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) 326 IAC 20, (40 CFR 63.460(a), Subpart T – National Emission Standards for Halogenated Solvent Cleaning) because the two (2) Closed Top Degreasers (20 and 55 gallon capacity) do not use any halogenated HAP solvents.
- (7) This source is not subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) 326 IAC 20, (40 CFR 63, Subpart EEE National Emission Standards for Hazardous Air Pollutants from Hazardous Waste Combustors) because the facility does not combust hazardous waste.
- (8) This source is not subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) 326 IAC 20, (40 CFR 63, Subpart SSSS Surface Coating of Metal Coil) because the source is an area source of HAPs.

State Rule Applicability - Entire Source

326 IAC 2-2 (Prevention of Significant Deterioration (PSD))

This source was constructed before August 1977, the applicability date for this rule and at that time it has the potential to emit VOC greater than 250 tons per year. It is not one of the twenty-eight (28) listed sources. Therefore the source is a major for PSD purposes.

326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting) because it is located in Lake County and its emissions of VOC is greater than 25 tons per year. Therefore, pursuant to 326 IAC 2-6-3(a)(1), annual reporting is required. An emission statement shall be submitted every year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

326 IAC 5-1 (Opacity Limitations)

This source is subject to the opacity limitations specified in 326 IAC 5-1-2(2)

326 IAC 6.8 PM Limitations for Lake County

This source is subject to 326 IAC 6.8 because it is located in Lake County, its PM PTE (or limited PM PTE) is less than 100 tons per year or actual emissions are less than 10 tons per year. However, this source is one of the sources specifically listed in 326 IAC 6.8-2 Therefore, 326 IAC 6.8-2 applies to this source.

State Rule Applicability – Individual Facilities

Hazardous Air Pollutant (HAPs) Minor Limits

The source will emit greater than ten (10) tons per year for a single HAP and greater than twenty-five (25) tons per year for a combination of HAPs. The source HAPs emissions shall be limited as follows:

- (a) The single Hazardous Air Pollutant (HAP) emissions from the Coil Coating Line, identified as Oven and oxidizer shall be limited to less than 9 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (b) The total Hazardous Air Pollutants (HAPs) emissions from the Coil Coating Line, identified as Oven and oxidizer, shall be limited to less than 24 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (c) The regenerative thermal oxidizer known as OX1 shall maintain a minimum overall HAP control efficiency of ninety-eight percent (98%).
- (d) The HAP emissions shall be calculated by the following equation:

$$\text{HAP emitted} = [(\text{HAP usage}) \times (1-0.98)]$$

Compliance with these limits in combination with the potential HAPs emissions from other emission units shall limit the source wide single HAP and total HAPs to less than 10 and 25 tons per year, respectively, and make this source an area source of HAPs.

326 IAC 4-2 Incinerators

The requirements of 326 IAC 4-2 establishes standard for the use of incinerators that emit regulated pollutants. The rule 326 IAC 4-2 (Incinerators) does not apply to this source because the rule applies to solid waste incinerators which this source does not have.

326 IAC 6.8-2-31 (Lake County PM10 emission requirements – Silgan Containers Manufacturing)

- (a) Pursuant to 326 IAC 6.8-2-31 (Lake County PM10 emission requirements), the PM10 emissions from the Coil Coater shall be limited to 0.007 lbs/MMBtu and 0.290 lbs/hr as specifically listed in 326 IAC 6.8-2-31.
- (b) Pursuant to 326 IAC 6.8-2-31 (Lake County PM10 emission requirements), the PM10 emissions from the Stacks serving the incinerator shall be limited to 0.007 lbs/MMBtu and 0.310 lbs/hr as specifically listed in 326 IAC 6.8-2-31.

326 IAC 7-1.1 Sulfur Dioxide Emission Limitations

All the emission units associated with the Metal Coil Coating for Can Manufacturers Plant have the potential to emit less than twenty-five (25) tons per year or ten (10) pounds per hour of sulfur dioxide, each, therefore these emission units are not subject to the requirements of 326 IAC 326 IAC 7-1.1.

326 IAC 8-1-6 (New Facilities; General Reduction Requirements)

This rule requires that new facilities (as of January 1, 1980), which have potential VOC emissions of 25 tons or more per year, located anywhere in the state, shall be subject to the requirements of this rule. The coil coating line has VOC emission greater than 25 tons per year but this emission unit is subject to the another article 8 rule, therefore, this emission unit is not subject to the requirements of 326 IAC 8-1-6(New Facilities; General Reduction Requirements) at this source.

326 IAC 8-2-4 (Coil coating operations)

Pursuant to 326 IAC 8-2-1 (Applicability), facilities existing as of January 1, 1980, of the types described in sections 2 through 8 of this rule, located in Lake County and which are located at sources which have potential emissions of one hundred (100) tons or greater per year of VOC shall comply with this rule. Pursuant to 326 IAC 8-2-4(b) (Coil coating operations), the VOC emissions from the Coil Coating Line shall be limited to 2.6 pounds per gallon (excluding water) as specifically listed in 326 IAC 8-2-4(b). Operation of the thermal oxidizer is required for the Coil Coating Line to comply with this rule.

Use of a non-compliant coating also requires that compliance be determined according to equivalency emission standards, expressed as pounds of VOC per gallon of coating solids, allowed under the applicable emission limitation contained in 326 IAC 8-1-2 (Compliance methods).

326 IAC 8-1-2 [326 IAC 8-7-3(3)] (Volatile Organic Compounds (VOCs)-Compliance methods)

Pursuant to 326 IAC 8-1-2 (b), the (facility) VOC emissions shall be limited to no greater than the equivalent emissions, expressed as pounds of VOC per gallon of coating solids, allowed in (a).

This equivalency was determined by the following equation:

$$E = L / (1 - (L/D))$$

Where

- L= Applicable emission limit from 326 IAC 8 in pounds of VOC per gallon of coating;
- D= Density of VOC in coating in pounds per gallon of VOC;
- E= Equivalent emission limit in pounds of VOC per gallon of coating solids as applied.

The emission limit in 326 IAC 8-2-4 is 2.6 lbs VOC per gal less water. The standard coating density used in formulas in the can industry is 7.36 lbs/gal as cited in 326 IAC 8-1-2. Therefore, the VOC limitation in terms of Lbs VOC/gal solids is:

$$\text{lbs/VOC per gal of solids} = 2.6 / (1 - 2.6/7.36) = 4.02 \text{ lbs VOC/ gal solids}$$

The equivalency emission limit is 4.02 pounds of VOC per gallon of coating solids as applied.

The emissions from the Coil Coater with Oven are controlled by one (1) regenerative thermal oxidizer. The overall rated control efficiency is 98%. This control efficiency is used to find the compliant limit of a coating's VOC content per gallon of coating solids.

(1-Overall Control Efficiency) X = emission limit of 4.02 lbs VOC per gal of solids (as applied)

Where:

- X = compliant coating limit in lbs VOC per gal of solids
- $(1 - 0.98) X = 4.02$
- X = 201 lbs VOC per gal of coating solids (as applied)

Coating Density (as applied) = Coating Density (as supplied) + (Dilution Solvent Density X Dilution Ratio) / (1+ Dilution Ratio)

lbs solids per gal of coating (as applied) = Coating Density (as supplied) * [Weight % Solids (as supplied) / 100] / (1 + Dilution Ratio)

Weight % Solids in coating (as applied) = lbs solids per gal coating / Coating Density (as applied) X 100

Weight % Solvent in coating (as applied) = 100 – Weight % Solids (as applied)

Volume % Solids in Coating (as applied) = Vol % Solids (as supplied) / (1 + Dilution Ratio)

lbs VOC/gal less water (as applied) = Density (as applied) X [Weight % Solvent (as applied) / 100]

lbs VOC/gal solids (as applied) = lbs VOC/gal less water (as applied) / [Volume % Solids (as applied) / 100]

The lbs VOC per gal of solids “as applied” is then compared to the limit for coil coating, considering the overall control efficiency, 201 lbs VOC per gal of coating solids (as applied). If lbs VOC per gal of solids “as applied” is less than this value, the coating “as applied” is compliant. If it is larger than this value, the coating “as applied” is not compliant and should not be used.

326 IAC 8-6 (Organic Solvent Emission Limitations)

This rule applies to sources whose operations commenced after October 7, 1974 and prior to January 1, 1980 with potential emissions of 100 tons or greater per year. This source is not subject to 326 IAC 8-6 because this source's operations commenced after January 1, 1980.

326 IAC 8-3-2 (Cold Cleaner Operations)

The cold cleaning operations are subject to 326 IAC 8-3-2 (Cold Cleaner Operations). This rule applies to cold cleaner type degreasing facilities existing facilities as of January 1, 1980, performing organic solvent degreasing operations located in Lake County and located at a source which has potential emissions of 100 tons or greater per year of VOC are subject to the requirements of 326 IAC 8-3 (Organic Solvent Degreasing Operations).

326 IAC 8-3-5 (Cold Cleaner Degreaser Operation and Control)

The cold cleaning operations are subject to 326 IAC 8-3-5 (Cold Cleaner Degreaser Operation and Control). This rule applies to cold cleaner type degreasing facilities existing as of July 1, 1990 performing organic solvent degreasing operations in Lake County using cold cleaner degreasers without remote solvent reservoirs are subject to the requirements of 326 IAC 8-3-5 (Cold cleaner degreaser operation and control).

326 IAC 8-6 (Organic Solvent Emission Limitations)

The requirements of 326 IAC 8-6 does not apply to this source because none of the emission units listed in this rule were constructed between October 7, 1974 and prior to January 1, 1980 and all other VOC sources existing as of January 1, 1980 are limited by other article 8 rule.

326 IAC 8-7 (Specific VOC Reduction Requirements for Lake, Porter, Clark, and Floyd Counties)

Pursuant to 326 IAC 8-7-2 (Applicability), coating facilities which emit or have the potential to emit a total equal to or greater than ten (10) tons per year of VOCs in Lake County shall be subject to the requirements of 326 IAC 8-7.

Pursuant to 326 IAC 8-7-3(3) (Emission limits), Silgan has achieved an alternative overall emission reduction with the application of reasonably available control technology (RACT) that has been determined as reasonably available by the U.S. EPA and IDEM. Pursuant to 326 IAC 8-7-3(1), Silgan has also installed an add-on control system that achieves an overall control efficiency of ninety-eight percent (98%) as an emissions reduction measure. Operation of the regenerative thermal oxidizer at 98% overall control efficiency is required at all times in order for the Coil Coating Line to comply with this rule.

326 IAC 8-9 (Volatile Organic Liquid Storage Vessels)

Pursuant to 326 IAC 8-9-6 (Record keeping and reporting requirements) stationary vessels with a capacity of less than thirty-nine thousand (39,000) gallons are subject to the reporting and record keeping provisions of section 6(a) and 6(b) of this rule and are exempt from all other provisions of this rule. The seven (7) Indoor Vertical, Fixed-Roof Storage Tanks are subject to the requirements of 326 IAC 8-9-6(b) since they each have capacities less than thirty-nine thousand (39,000) gallons.

Compliance Determination and Monitoring Requirements

Permits issued under 326 IAC 2-7 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 2-7-5. 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) Testing Requirements

Emission units	Control device	Pollutants	Frequency of testing	Limit or Requirement
Coil Coating Line-Surface Coating, identified as Oven and oxidizer	Regenerative Thermal Oxidizer	VOC, Temperature, Ampere or Pressure Drop	Every five (5) years	326 IAC 8-2-4
		HAPs		HAPs Minor Limit

(b) The compliance monitoring requirements applicable to this source are as follows:

Emission Units	Frequency	Parameters
Thermal oxidizer	Continuous	Temperature

Recommendation

The staff recommends to the Commissioner that the Part 70 Operating Permit 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 December 12, 2011.

Conclusion

The operation of this metal coil coating for can manufacturers operation that coats steel and aluminum coils shall be subject to the conditions of the attached Part 70 Operating Permit Renewal No. 089-31249-00202.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Josiah Balogun at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 241-2919 or toll free at 1-800-451-6027 extension 4-5257.
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov

Appendix A: Emissions Calculations

Emission Summary

Source Name: Silgan Containers Manufacturing Corporation
Source Location: 2501 165th Street, Hammond, IN 46320
Permit Number: T089-31249-00202
Permit Reviewer: Josiah Balogun
Date: 14-Dec-2011

Uncontrolled Potential to Emit

	PM (tons/yr)	PM₁₀ (tons/yr)	PM_{2.5} (tons/yr)	SO₂ (tons/yr)	VOC (tons/yr)	CO (tons/yr)	NOx (tons/yr)	GHGs as CO₂e (tons/yr)	HAPs (tons/yr)
Emission Unit									
Coil Coating Line - Surface Coating	0	0	0	0	4,467.60	0	0	0	30.67
Coil Coating Solvent Addition	0	0	0	0	1,955.20	0	0	0	0
Coil Coating Cleanup	0	0	0	0	727.1	0	0	0	0
Seven (7) Indoor Vertical, Fixed-Roof Storage Tanks	0	0	0	0	0.27	0	0	0	0
Oven and Oxidizer	0.5	1.8	1.8	0.1	1.3	20	23.8	28,767	0.45
Space Heaters	0.2	1.0	1.0	0.1	0.7	10.7	12.7	15,309	0.24
Dock Heaters	0.012	0.05	0.05	0.004	0.036	0.6	0.7	793	0.012
Total Emissions	0.71	2.85	2.85	0.20	7152.21	31.30	37.20	44869.00	Single HAP >10 Combined HAPs > 25

Appendix A: Emissions Calculations

Emission Summary

Source Name: Silgan Containers Manufacturing Corporation
Source Location: 2501 165th Street, Hammond, IN 46320
Permit Number: T089-31249-00202
Permit Reviewer: Josiah Balogun
Date: 14-Dec-2011

Limited Potential to Emit

Emission Unit	PM (tons/yr)	PM₁₀ (tons/yr)	PM_{2.5} (tons/yr)	SO₂ (tons/yr)	VOC (tons/yr)	CO (tons/yr)	NOx (tons/yr)	GHGs as CO₂e (tons/yr)	HAPs (tons/yr)
Coil Coating Line - Surface Coating	0	0	0	0	89.35*	0	0	0	Single HAP < 9 Combined HAPs < 25
Coil Coating Solvent Addition	0	0	0	0	39.1**	0	0	0	0
Coil Coating Cleanup	0	0	0	0	14.54***	0	0	0	0
Seven (7) Indoor Vertical, Fixed-Roof Storage Tanks	0	0	0	0	0.27	0	0	0	0
Oven and Oxidizer	0.5	1.8	1.8	0.1	1.3	20	23.8	28,767	0.45
Space Heaters	0.2	1.0	1.0	0.1	0.7	10.7	12.7	15,309	0.24
Dock Heaters	0.012	0.05	0.05	0.004	0.036	0.6	0.7	793	0.012
Total Emissions	0.71	2.85	2.85	0.20	145.30	31.30	37.20	44869.00	Single HAP <10 Combined HAPs < 25

Note:

* 326 IAC 8-7

** 326 IAC 8-7

*** 326 IAC 8-7

Appendix A

Silgan Containers Manufacturing Corporation
 2501 - 165th Street
 Hammond, Indiana 46320

Permit No. T089-31249-00202
 REC'D DATE: 12/12/2011
 CALC DATE: 12/12/2011
 Date: : 12/14/2011

CALCULATIONS BY: Josiah Balogun

NO. OF POINTS: 3

****NOTES****

EF: EMISSION FACTOR MDR: MAXIMUM DESIGN RATE
 CE: CONTROL EFFICIENCY

P1,S1; Coil Coating Line-Surface Coating

MDR (T/hr): 0.51

STACK ID (DIAM:HEIGHT): (5.5: 50)

FLOWRATE (ACFM): 93,230

Ts(°F): 672

CNTRL DEV: Regenerative Thermal Oxidizer

8760 hr/yr

SCC NO. 4-02-018-01			POTENTIAL EMISSIONS						Limited	
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	0.0000	0.0000	0.0000	0	0.0000
PM10	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0	0.0000
SOx	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A	0	0.0000
NOx	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A	0	0.0000
VOC	2000	0.98	1,020.0000	24,480	4,467.6000	20.4000	89.3520	N/A	20.4000	89.3520
CO	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A	0	0.0000
LEAD	---	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A	0	0.0000

MDR: (gal/hr) X (lbs/gal) X (lbs VOC/lb coating) / (2,000 lbs/ton) = Tons of Solvent/hr

MDR based on coatings A.40.5 and O.59.5

Coating: A.40.5 rate applied 104.70 gal/hr
 density = 8.52 lbs/gal
 Volatiles: 72.13 wt %
 Solids: 27.75 wt%

MDR: (104.70 gal/hr) X (8.52 lbs/gal) X (0.7213 lbs VOC/lb coating) / (2000 lbs/ton) = 0.3217 Tons VOC/hr

Coating: O.69.5 rate applied 60.15 gal/hr
 density = 7.69 lbs/gal
 Volatiles: 81.19 wt %
 Solids: 18.81 wt%

MDR: (60.15 gal/hr) X (7.69 lbs/gal) X (0.8119 lbs VOC/lb coating) / (2000 lbs/ton) = 0.1878 Tons VOC/hr

Total MDR: 0.3217 Tons VOC/hr + 0.1878 Tons VOC/hr = 0.5095 Tons VOC/hr

P1,S2; Coil Coating Solvent Addition

MDR (T/hr): 0.223

STACK ID (DIAM:HEIGHT): (5.5: 50)

FLOWRATE (ACFM): 93,230

CNTRL DEV: Regenerative Thermal Oxidizer

Ts(°F): 672

8760 hr/yr

SCC NO. 03-09-011-04			POTENTIAL EMISSIONS						Limited	
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	0.0000	0.0000	0.0000	0	0.0000
PM10	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0	0.0000
SOx	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A	0	0.0000
NOx	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A	0	0.0000
VOC	2000	0.98	446.4000	10,714	1,955.2320	8.9280	39.1046	N/A	8.9280	39.1046
CO	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A	0	0.0000
LEAD	---	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A	0	0.0000

Coating: VAS6839-020 w/ XA - 70 gal/hr

density = 7.844 lbs/gal

Volatiles: 70.334 wt %; 79.577 V %

Solids: 29.666 wt %; 20.423 V %

P1,S3; Coil Coating Cleanup

MDR (T/hr): 0.083

STACK ID (DIAM:HEIGHT): (5.5: 50)

FLOWRATE (ACFM): 93,230

CNTRL DEV: None

Ts(°F): 672

8760 hr/yr

POLLUTANT	EF(LB/T)	CE (%)	POTENTIAL EMISSIONS						Limited	
			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	0.0000	0.0000	0.0000	0	0.0000
PM10	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0	0.0000
SOx	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A	0	0.0000
NOx	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A	0	0.0000
VOC	2000	0.98	166.0000	3,984.0000	727.0800	3.3200	14.5416	N/A	3.3200	14.5416
CO	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A	0	0.0000
LEAD	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A	0	0.0000

MDR based on maximum usage rate of 20 gallons per day.

DBE 5050 and 0.193 Tons of Solvent/hr

The 20 gallons per day is a worst case scenario since the facility reuses the solvent/coating waste the next time the coating in question is used.

Appendix B: Emission Calculations Tanks 1 - 5**Tanks 4.0 Emissions Report****Identification**

User Identification: **Tanks 1 - 5**
 City: Hammond
 State: Indiana
 Company: Silgan Containers Manufacturing Corporation
 Type of Tank: Vertical Fixed Roof Tank

Tank Dimensions

Shell Height (ft): 15.00
 Diameter (ft): 12.00
 Liquid Height(ft): 14.00
 Avg. Liquid Height (ft): 10.00
 Volume (gallons): 11,844.41
 Turnovers: 13.00
 Net Throughput (gal/yr): 153,977.4
 Is Tank Heated? (y/n): N

Paint Characteristics

Shell Color/Shade: Gray/Medium
 Shell Condition: Good
 Roof Color/Shade: Gray/Medium
 Rood Condition: Good

Roof Characteristics

Type: Dome
 Height (ft): 0.50
 Radius (ft) (Dome Roof): 6.00

Breather Vent Settings

Vacuum Settings (psig): 0.00
 Pressure Settings (psig): 0.50

Meteorological Data used in Emissions Calculations: Chicago, Illinois (Avg. Atmospheric Pressure = 14.38 psia)

Components	Losses (lbs)		
	Working Loss	Breathing Loss	Total Emissions
Xylene (-m)	31.98	13.53	45.51

Appendix C: Emission Calculations Tanks 6 - 7

Tanks 4.0 Emissions Report

Identification

User Identification: **Tanks 6 - 7**
 City: Hammond
 State: Indiana
 Company: Silgan Containers Manufacturing Corporation
 Type of Tank: Vertical Fixed Roof Tank

Tank Dimensions

Shell Height (ft): 14.00
 Diameter (ft): 12.00
 Liquid Height(ft): 12.00
 Avg. Liquid Height (ft): 10.00
 Volume (gallons): 10,152.36
 Turnovers: 14.00
 Net Throughput (gal/yr): 142,133.0
 Is Tank Heated? (y/n): N

Paint Characteristics

Shell Color/Shade: Gray/Medium
 Shell Condition: Good
 Roof Color/Shade: Gray/Medium
 Rood Condition: Good

Roof Characteristics

Type: Dome
 Height (ft): 0.50
 Radius (ft) (Dome Roof): 6.00

Breather Vent Settings

Vacuum Settings (psig): 0.00
 Pressure Settings (psig): 0.50

Meteorological Data used in Emissions Calculations: Chicago, Illinois (Avg. Atmospheric Pressure = 14.38 psia)

Components	Losses (lbs)		
	Working Loss	Breathing Loss	Total Emissions
Xylene (-m)	29.52	11.00	40.52

Appendix A: Emissions Calculations

Natural Gas Combustion Only

MM BTU/HR <100

Company Name: Silgan Containers Manufacturing Corporation
Address City IN Zip: 2501 165th Street, Hammond, IN 46320
Permit Number: T089-31249-00202
Reviewer: Josiah Balogun
Date: 14-Dec-2011

Heat Input Capacity MMBtu/hr	HHV mmBtu	Potential Throughput MMCF/yr
54.4	1000	476.5

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
	1.9	7.6	7.6	0.6	100 **see below	5.5	84
Potential Emission in tons/yr	0.5	1.8	1.8	0.1	23.8	1.3	20.0

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

PM2.5 emission factor is filterable and condensable PM2.5 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

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

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

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

See page 9 for HAPs emissions calculations.

**Appendix A: Emissions Calculations
 Natural Gas Combustion Only
 MM BTU/HR <100
 HAPs Emissions**

Company Name: Silgan Containers Manufacturing Corporation
Address City IN Zip: 2501 165th Street, Hammond, IN 46320
Permit Number: T089-31249-00202
Reviewer: Josiah Balogun
Date: 14-Dec-2011

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	5.004E-04	2.859E-04	1.787E-02	4.289E-01	8.101E-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	1.191E-04	2.621E-04	3.336E-04	9.054E-05	5.004E-04

Methodology is the same as page 8.

The five highest organic and metal HAPs emission factors are provided above.
 Additional HAPs emission factors are available in AP-42, Chapter 1.4.
 See Page 10 for Greenhouse Gas calculations.

Appendix A: Emissions Calculations**Natural Gas Combustion Only****MM BTU/HR <100****Greenhouse Gas Emissions**

Company Name: Silgan Containers Manufacturing Corporation
Address City IN Zip: 2501 165th Street, Hammond, IN 46320
Permit Number: T089-31249-00202
Reviewer: Josiah Balogun
Date: 14-Dec-2011

	Greenhouse Gas		
	CO2	CH4	N2O
Emission Factor in lb/MMcf	120,000	2.3	2.2
Potential Emission in tons/yr	28,593	0.5	0.5
Summed Potential Emissions in tons/yr	28,594		
CO2e Total in tons/yr	28,767		

Methodology

The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.

Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.

Greenhouse Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.

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

CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310).

Appendix A: Emissions Calculations

Natural Gas Combustion Only

MM BTU/HR <100

Company Name: Silgan Containers Manufacturing Corporation
Address City IN Zip: 2501 165th Street, Hammond, IN 46320
Permit Number: T089-31249-00202
Reviewer: Josiah Balogun
Date: 14-Dec-2011

Heat Input Capacity MMBtu/hr	HHV mmBtu mmscf	Potential Throughput MMCF/yr
28.95	1000	253.6

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
	1.9	7.6	7.6	0.6	100 **see below	5.5	84
Potential Emission in tons/yr	0.2	1.0	1.0	0.1	12.7	0.7	10.7

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

PM2.5 emission factor is filterable and condensable PM2.5 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

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

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

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

See page 12 for HAPs emissions calculations.

**Appendix A: Emissions Calculations
 Natural Gas Combustion Only
 MM BTU/HR <100
 HAPs Emissions**

Company Name: Silgan Containers Manufacturing Corporation
Address City IN Zip: 2501 165th Street, Hammond, IN 46320
Permit Number: T089-31249-00202
Reviewer: Josiah Balogun
Date: 14-Dec-2011

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	2.663E-04	1.522E-04	9.510E-03	2.282E-01	4.311E-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	6.340E-05	1.395E-04	1.775E-04	4.818E-05	2.663E-04

Methodology is the same as page 11.

The five highest organic and metal HAPs emission factors are provided above.
 Additional HAPs emission factors are available in AP-42, Chapter 1.4.
 See Page 13 for Greenhouse Gas calculations.

Appendix A: Emissions Calculations**Natural Gas Combustion Only****MM BTU/HR <100****Greenhouse Gas Emissions**

Company Name: Silgan Containers Manufacturing Corporation
Address City IN Zip: 2501 165th Street, Hammond, IN 46320
Permit Number: T089-31249-00202
Reviewer: Josiah Balogun
Date: 14-Dec-2011

	Greenhouse Gas		
	CO2	CH4	N2O
Emission Factor in lb/MMcf	120,000	2.3	2.2
Potential Emission in tons/yr	15,216	0.3	0.3
Summed Potential Emissions in tons/yr	15,217		
CO2e Total in tons/yr	15,309		

Methodology

The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.

Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.

Greenhouse Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.

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

CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310).

Appendix A: Emissions Calculations

Natural Gas Combustion Only

MM BTU/HR <100

Company Name: Silgan Containers Manufacturing Corporation
Address City IN Zip: 2501 165th Street, Hammond, IN 46320
Permit Number: T089-31249-00202
Reviewer: Josiah Balogun
Date: 14-Dec-2011

Heat Input Capacity MMBtu/hr	HHV mmBtu mmscf	Potential Throughput MMCF/yr
1.5	1000	13.1

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
	1.9	7.6	7.6	0.6	100 **see below	5.5	84
Potential Emission in tons/yr	0.012	0.050	0.050	0.004	0.7	0.036	0.6

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

PM2.5 emission factor is filterable and condensable PM2.5 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

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

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

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

See page 15 for HAPs emissions calculations.

**Appendix A: Emissions Calculations
 Natural Gas Combustion Only
 MM BTU/HR <100
 HAPs Emissions**

Company Name: Silgan Containers Manufacturing Corporation
Address City IN Zip: 2501 165th Street, Hammond, IN 46320
Permit Number: T089-31249-00202
Reviewer: Josiah Balogun
Date: 14-Dec-2011

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	1.380E-05	7.884E-06	4.928E-04	1.183E-02	2.234E-05

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	3.285E-06	7.227E-06	9.198E-06	2.497E-06	1.380E-05

Methodology is the same as page 14.

The five highest organic and metal HAPs emission factors are provided above.
 Additional HAPs emission factors are available in AP-42, Chapter 1.4.
 See Page 16 for Greenhouse Gas calculations.

Appendix A: Emissions Calculations**Natural Gas Combustion Only****MM BTU/HR <100****Greenhouse Gas Emissions**

Company Name: Silgan Containers Manufacturing Corporation
Address City IN Zip: 2501 165th Street, Hammond, IN 46320
Permit Number: T089-31249-00202
Reviewer: Josiah Balogun
Date: 14-Dec-2011

	Greenhouse Gas		
	CO2	CH4	N2O
Emission Factor in lb/MMcf	120,000	2.3	2.2
Potential Emission in tons/yr	788	0.0	0.0
Summed Potential Emissions in tons/yr	788		
CO2e Total in tons/yr	793		

Methodology

The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.

Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.

Greenhouse Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.

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

CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310).



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED

TO: Sharon Ernest
Silgan Containers Manufacturing Corporation
5701 Frontier Rd
Oconomowoc WI 53066

DATE: March 13, 2012

FROM: Matt Stuckey, Branch Chief
Permits Branch
Office of Air Quality

SUBJECT: Final Decision
Title V
089-31249-00202

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to:
Roger Mentz Plant Mgr
OAQ Permits Branch Interested Parties List

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178, or toll-free at 1-800-451-6027 (ext. 3-0178), and ask to speak to the permit reviewer who prepared the permit. If you think you have received this document in error, please contact Joanne Smiddie-Brush of my staff at 1-800-451-6027 (ext 3-0185), or via e-mail at jbrush@idem.IN.gov.

Final Applicant Cover letter.dot 11/30/07



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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Toll Free (800) 451-6027
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March 13, 2012

TO: Hammond Public Library

From: Matthew Stuckey, Branch Chief
Permits Branch
Office of Air Quality

Subject: **Important Information for Display Regarding a Final Determination**

Applicant Name: Silgan Containers
Permit Number: 089-31249-00202

You previously received information to make available to the public during the public comment period of a draft permit. Enclosed is a copy of the final decision and supporting materials for the same project. Please place the enclosed information along with the information you previously received. To ensure that your patrons have ample opportunity to review the enclosed permit, **we ask that you retain this document for at least 60 days.**

The applicant is responsible for placing a copy of the application in your library. If the permit application is not on file, or if you have any questions concerning this public review process, please contact Joanne Smiddie-Brush, OAQ Permits Administration Section at 1-800-451-6027, extension 3-0185.

Enclosures
Final Library.dot 11/30/07

Mail Code 61-53

IDEM Staff	DPABST 3/13/2012 Silgan Containers Manufacturing Corporation 089-31249-00202 (Final)			AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204	Type of Mail: CERTIFICATE OF MAILING ONLY	

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee	Remarks
1		Sharon Ernest Silgan Containers Manufacturing Corporation 5701 Frontier Rd Oconomowoc WI 53066 (Source CAATS) (CONFIRM DELIVERY										
2		Roger Mentz Plant Mgr Silgan Containers Manufacturing Corporation 2501 165th St Hammond IN 46320 (RO CAATS)										
3		East Chicago City Council 4525 Indianapolis Blvd East Chicago IN 46312 (Local Official)										
4		Gary - Hobart Water Corp 650 Madison St, P.O. Box M486 Gary IN 46401-0486 (Affected Party)										
5		Lake County Health Department-Gary 1145 W. 5th Ave Gary IN 46402-1795 (Health Department)										
6		WJOB / WZVN Radio 6405 Olcott Ave Hammond IN 46320 (Affected Party)										
7		Hammond City Council and Mayors Office 5925 Calumet Avenue Hammond IN 46320 (Local Official)										
8		Hammond Public Library 564 State St Hammond IN 46320-1532 (Library)										
9		Laurence A. McHugh Barnes & Thornburg 100 North Michigan South Bend IN 46601-1632 (Affected Party)										
10		Shawn Sobocinski 3229 E. Atlanta Court Portage IN 46368 (Affected Party)										
11		Ms. Carolyn Marsh Lake Michigan Calumet Advisory Council 1804 Oliver St Whiting IN 46394-1725 (Affected Party)										
12		Mark Coleman 9 Locust Place Ogden Dunes IN 46368 (Affected Party)										
13		Mr. Chris Hernandez Pipefitters Association, Local Union 597 8762 Louisiana St., Suite G Merrillville IN 46410 (Affected Party)										
14		Craig Hogarth 7901 West Morris Street Indianapolis IN 46231 (Affected Party)										
15		Lake County Commissioners 2293 N. Main St, Building A 3rd Floor Crown Point IN 46307 (Local Official)										

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See Domestic Mail Manual R900, S913, and S921 for limitations of coverage on inured and COD mail. See International Mail Manual for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
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IDEM Staff	DPABST 3/13/2012 Silgan Containers Manufacturing Corporation 089-31249-00202 (Final)		AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender	 Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204	Type of Mail: CERTIFICATE OF MAILING ONLY	

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee	Remarks
1		Anthony 2006 E. 140th Street East Chicago IN 46312 (Affected Party)										
2		Barbara G. Perez 506 Lilac Street East Chicago IN 46312 (Affected Party)										
3		Mr. Robert Garcia 3733 Parrish Avenue East Chicago IN 46312 (Affected Party)										
4		Ms. Karen Kroczek 8212 Madison Ave Munster IN 46321-1627 (Affected Party)										
5		Joseph Hero 11723 S Oakridge Drive St. John IN 46373 (Affected Party)										
6		Gary City Council 401 Broadway # 209 Gary IN 46402 (Local Official)										
7		Ron Novak Hammond Dept. of Environmental Management 5925 Calumnet Ave. Hammond IN 46320 (Local Official)										
8		Mr. Larry Davis 268 South, 600 West Hebron IN 46341 (Affected Party)										
9		Gitte Laasby Post Tribune 1433 E. 83rd Ave Merrillville IN 46410 (Affected Party)										
10		Susan Severtson City of Gary Law Dept. 401 Broadway 4th Floor Gary IN 46402 (Local Official)										
11												
12												
13												
14												
15												

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