



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: December 1, 2009

RE: Corn Island Shipyard / 147-27989-00047

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 according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3 and IC 13-15-6-1 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

Enclosures
FNPER.dot12/03/07



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New Source Construction and Federally Enforceable State Operating Permit OFFICE OF AIR QUALITY

**Corn Island Shipyard
9447 E. SR 66
Grandview, Indiana 47615**

(herein known as the Permittee) is hereby authorized to construct and 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. 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 2-8 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.

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a FESOP under 326 IAC 2-8.

Operation Permit No.: F147-27989-00047	
Issued by:  Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: December 1, 2009 Expiration Date: December 1, 2014

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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 2-8-3(b)]

The Permittee owns and operates a stationary Shipyard fabrication and repair.

Source Address:	9447 E. SR 66, Grandview, Indiana 47615
Mailing Address:	P. O. Box 125, Lamar, IN 47550
General Source Phone Number:	812-362-8808
SIC Code:	3731
County Location:	Spencer (Hammond Township)
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Federally Enforceable State Operating Permit Program Minor Source, under PSD and Emission Offset 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 2-8-3(c)(3)]

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

- (a) One (1) pneumatic blasting unit, identified as 00200, approved for construction in 2009, using black beauty slag as blast media, using a three (3) sided filter fabric barrier to contain blasting residue, exhausting outdoors.
- (b) One (1) outside paint area, identified as 00600, constructed in July 1990, using four (4) high volume low pressure (HVLV) spray guns, with no control device and exhausting outdoors.

A.3 Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-8-3(c)(3)(I)]

This stationary source also includes the following insignificant activities:

- (a) The following internal combustion engines with compression ignition:
 - (1) Two (2) Manitowoc Lift Cranes rated at 610 horsepower each (unit number 2200 and 2205).
 - (2) Equipment rated at less than 600 horsepower:
 - (A) OVH Crane Generator rated at 225 horsepower (unit number 1050).
 - (B) 110 Ton Crane - Truck rated at 275 horsepower (unit number 2010).
 - (C) 110 Ton Crane - Lift rated at 275 horsepower (unit number 2015).
 - (D) 61 B 125 Ton Crawler Crane rated at 300 horsepower (unit number 2025).

- (E) Gantry #1 and #2 generators rated at 425 horsepower each (unit number 2220 and 2240).
 - (F) American Lift Crane rated at 275 horsepower (unit number 2400).
 - (G) Petibone Lift Crane rated at 105 horsepower (unit number 2500).
- (b) Kerosene space heater (40) rated at 150,000 BTU/hr each.
 - (c) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]
 - (d) Flame cutting operation, identified as 00300, approved for construction in 2009 and consisting of:
 - (1) One (1) Plasma Arc Flame Cutting, no identification, constructed in July 1990, with a maximum capacity of 78.97 inches per minute of 0.5 inch thick plate steel, with no control device and exhausting to stack 00301.
 - (2) One (1) HPG/Oxygen Flame Cutting, no identification, constructed in July 1990, with a maximum capacity of twelve (12) inches per minute of 0.5 inch thick plate steel, with no control device and exhausting indoors.
 - (e) Welding operation, identified as 00400, constructed in July 1990 and consisting of:
 - (1) Forty-five (45) SMAW stations, with a maximum consumption of 3.95 pounds of electrode per hour, with no control device and exhausting indoors.
 - (2) Ninety-five (95) FCAW stations, with a maximum consumption of 38.28 pounds of electrode per hour, with no control device and exhausting indoors.
 - (3) Two (2) SAW stations, with a maximum consumption of 3.09 pounds of electrode per hour, with no control device and exhausting indoors.
 - (f) Portable grinding operations, identified as 00500, constructed in July 1990, capable of removing 1.7 lbs of mild steel per 4.5 inch wheel and 4.2 lbs of mild steel per seven inch wheel, with no control device and exhausting internally.
 - (g) Gasoline fuel transfer dispensing operation handling less than 1,300 gallons per day, identified as T-1, with a capacity of 550 gallons. [326 IAC 2-7-1(21)(g)(ii)] This is an affected facility under 40 CFR 63, Subpart CCCCC.
 - (h) Diesel #2 fuel transfer dispensing operation having a storage tank capacity of 2,000 gallons handling less than 1,300 gallons per day, identified as T-5, and dispensing 10,500 gallons a day or less. [326 IAC 2-7-1(21)(g)(ii)]
 - (i) Storage tanks with a capacity less than or equal to 1,000 gallons or less and annual throughput less than 12,000 gallons, consisting of:
 - (1) Anti-freeze storage tank, identified as T-2, with a capacity of 300 gallons.
 - (2) Hydraulic oil storage tank, identified as T-3, with a capacity of 300 gallons.
 - (3) Motor oil storage tank, identified as T-4, with a capacity of 300 gallons.
 - (4) Used oil storage tank, identified as T-6
 - (5) Kerosene storage tank, identified as T-6, with a capacity of 300 gallons.

- (6) Kerosene storage tank, identified as T-7, with a capacity of 300 gallons.
- (j) One (1) slow RPM metal cutoff saw using oil mist to control for particulate and using less than 25 gallons of oil per year.

A.4 FESOP Applicability [326 IAC 2-8-2]

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) for a Federally Enforceable State Operating Permit (FESOP).

SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-8-1]

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 Revocation of Permits [326 IAC 2-1.1-9(5)]

Pursuant to 326 IAC 2-1.1-9(5)(Revocation of Permits), the Commissioner may revoke this permit if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.

B.3 Affidavit of Construction [326 IAC 2-5.1-3(h)] [326 IAC 2-5.1-4][326 IAC 2-8]

This document shall also become the approval to operate pursuant to 326 IAC 2-5.1-4 and 326 IAC 2-8 when prior to the start of operation, the following requirements are met:

- (a) The attached Affidavit of Construction shall be submitted to the Office of Air Quality (OAQ), verifying that the emission units were constructed as proposed in the application or the permit. The emission units covered in this permit may begin operating on the date the Affidavit of Construction is postmarked or hand delivered to IDEM if constructed as proposed.
- (b) If actual construction of the emission units differs from the construction proposed in the application, the source may not begin operation until the permit has been revised pursuant to 326 IAC 2 and an Operation Permit Validation Letter is issued.
- (c) The Permittee shall attach the Operation Permit Validation Letter received from the Office of Air Quality (OAQ) to this permit.

B.4 Permit Term [326 IAC 2-8-4(2)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]

- (a) This permit, F147-27989-00047, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

B.5 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.6 Enforceability [326 IAC 2-8-6] [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.7 Severability [326 IAC 2-8-4(4)]

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.8 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]

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

B.9 Duty to Provide Information [326 IAC 2-8-4(5)(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. The submittal by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1). Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.10 Certification [326 IAC 2-8-3(d)][326 IAC 2-8-4(3)(C)(i)][326 IAC 2-8-5(1)]

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by an "authorized individual" of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) An "authorized individual" is defined at 326 IAC 2-1.1-1(1).

B.11 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

- (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. The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than July 1 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

- (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 2-8-4(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 the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

B.12 Compliance Order Issuance [326 IAC 2-8-5(b)]

IDEM, OAQ may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

B.13 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)][326 IAC 2-8-5(a)(1)]

(a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within 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 the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or

potential to emit. The PMPs do not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

B.14 Emergency Provisions [326 IAC 2-8-12]

- (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 except as provided in 326 IAC 2-8-12.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or 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, and Southwest 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 Compliance and Enforcement Branch)
Facsimile Number: 317-233-6865
Southwest Regional Office phone: (812) 380-2305; fax: (812) 380-2304.

- (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 2-8-4(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 the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (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 2-8-3(c)(6) 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 2-8 and any other applicable rules.
 - (g) Operations may continue during an emergency only if the following conditions are met:
 - (1) 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.
 - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
 - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
 - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.
- Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.
- (h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report. Any emergencies that have been previously reported pursuant to paragraph (b)(5) of this condition and certified by an "authorized individual" need only referenced by the date of the original report.

B.15 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of permits established prior to F147-27989-00047 and issued pursuant to permitting programs approved into the state implementation plan have been either:
- (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

B.16 Termination of Right to Operate [326 IAC 2-8-9][326 IAC 2-8-3(h)]

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 2-8-3(h) and 326 IAC 2-8-9.

B.17 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]

- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provisions), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported 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

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. 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.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

B.18 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-8-4(5)(C)][326 IAC 2-8-7(a)][326 IAC 2-8-8]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Federally Enforceable State 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 2-8-4(5)(C)] The notification by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (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 2-8-8(a)]
- (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 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(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 2-8-8(c)]

B.19 Permit Renewal [326 IAC 2-8-3(h)]

- (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 2-8-3. 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 the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
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 2-8 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.20 Permit Amendment or Revision [326 IAC 2-8-10][326 IAC 2-8-11.1]

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
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 shall be certified by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.21 Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-8-15(b) through (d) 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 approval required by 326 IAC 2-8-11.1 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 2-8-15(b) through (d). 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 2-8-15(b)(2), (c)(1), and (d).

- (b) Emission Trades [326 IAC 2-8-15(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 2-8-15(c).
- (c) Alternative Operating Scenarios [326 IAC 2-8-15(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 2-8-4(7). No prior notification of IDEM, OAQ, or U.S. EPA is required.
- (d) 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.

B.22 Source Modification Requirement [326 IAC 2-8-11.1]

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

B.23 Inspection and Entry [326 IAC 2-8-5(a)(2)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]

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

- (a) Enter upon the Permittee's premises where a FESOP source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.24 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 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

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

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.25 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16][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) 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.26 Credible Evidence [326 IAC 2-8-4(3)][326 IAC 2-8-5][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 2-8-4(1)]

C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2]

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

C.2 Overall Source Limit [326 IAC 2-8]

The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

(a) Pursuant to 326 IAC 2-8:

- (1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one hundred (100) tons per twelve (12) consecutive month period.
- (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
- (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

(b) Pursuant to 326 IAC 2-2 (PSD), potential to emit particulate matter (PM) from the entire source shall be limited to less than one hundred (100) tons per twelve (12) consecutive month period.

(c) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided that the source's potential to emit does not exceed the above specified limits.

(d) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

C.3 Opacity [326 IAC 5-1]

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

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A,

Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

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

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.

C.5 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

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

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

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

C.7 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the attached plan as in Attachment A.

C.8 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 by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (e) **Procedures for Asbestos Emission Control**
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and Renovation**
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana 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.

Testing Requirements [326 IAC 2-8-4(3)]

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

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

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 certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.10 Compliance Requirements [326 IAC 2-1.1-11]

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 2-8-4][326 IAC 2-8-5(a)(1)]

C.11 Compliance Monitoring [326 IAC 2-8-4(3)][326 IAC 2-8-5(a)(1)]

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance or ninety (90) days of initial start-up, whichever is later. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, 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 the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

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

Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60, Appendix B, 40 CFR 63, or other approved methods as specified in this permit.

C.13 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)][326 IAC 2-8-5(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 2-8-4][326 IAC 2-8-5(a)(1)]

C.14 Risk Management Plan [326 IAC 2-8-4] [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.15 Response to Excursions or Exceedances [326 IAC 2-8-4] [326 IAC 2-8-5]

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

C.16 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4][326 IAC 2-8-5]

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.

- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

C.17 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance or ninety (90) days of initial start-up, whichever is later.

C.18 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

- (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. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of 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
- (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) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (e) The first report shall cover the period commencing on the date of issuance of this permit or the date of initial start-up, whichever is later, and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit, "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

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 the standards for recycling and emissions reduction:

- (a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.
- (b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- (c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (a) One (1) pneumatic blasting unit, identified as 00200, approved for construction in 2009, using black beauty slag as blast media, using a three (3) sided filter fabric barrier to contain blasting residue, exhausting outdoors.

(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 FESOP Limits [326 IAC 2-2] [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4, the Permittee shall comply with the following:

- (a) The total black beauty slag for the pneumatic blasting unit, identified as 00200, shall not exceed 600 tons of black beauty slag per twelve (12) consecutive month period with compliance determined at the end of each month.
- (b) The PM10, and PM2.5 emissions from the pneumatic blasting unit, identified as 00200, shall not exceed the emission limits listed in the table below:

Particulate	Emission Limits (lbs per 1,000 lbs abrasive)
PM10	13
PM2.5	1.3

Compliance with these limits, combined with the limited potential to emit PM, PM10, and PM2.5 from all other emission units at the source, shall limit the source-wide total potential to emit of PM, PM10, and PM2.5 to less than 100 tons per 12 consecutive month period, each, and shall render 326 IAC 2-7 (Part 70 Program) and 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

D.1.2 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the pneumatic abrasive blasting operation shall not exceed 7.58 pounds per hour when operating at a process weight rate of 5000 pounds per hour.

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

D.1.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

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

Compliance Determination Requirements

D.1.4 Particulate Control

In order to comply with Condition D.1.2, the blasting operations will be suspended when the wind velocity exceeds 10 mph. Wind velocity will be determined before the blasting operations and rechecked hourly during operations. Residue blast material will be wet down with water before removed for disposal. The blasting operation will be surrounded on three sides by a filter fabric barrier to contain blasting residue at all times when the blasting operation is in operation.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

D.1.5 Record Keeping Requirements

- (a) To document compliance with Condition D.1.1, the Permittee shall maintain monthly records of the amount of black beauty slag used.

- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.6 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.1.1 shall be submitted to the addresses listed in Section C - General Reporting requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (b) One (1) outside paint area, identified as 00600, approved for construction in 2009, using four (4) high volume low pressure (HVLP) spray guns, using no controls, exhausting outdoors.

(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 2-8-4(1)]

D.2.1 Volatile Organic Compound (VOC) Content Limitations [326 IAC 8-2-9]

- (a) Pursuant to 326 IAC 8-2-9, the owner or operator shall not allow the discharge into the atmosphere volatile organic compound (VOC) from application equipment of the outdoor paint area in excess of 3.5 pounds of VOC per gallon of coating less water delivered to a coating applicator that applies extreme performance coatings
- (b) Pursuant to 326 IAC 8-2-9(f), all solvents sprayed from application equipment of the outdoor paint area during cleanup or color changes shall be directed into containers. Said containers shall be closed as soon as the solvent spraying is complete. In addition, all waste solvent shall be disposed of in such a manner that evaporation is minimized.

D.2.2 Hazardous Air Pollutants (HAP) Limitations [326 IAC 2-4.1] [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4, the hazardous air pollutants delivered to the outdoor paint area, shall be limited as follows:

- (a) The total input of any single HAP to the outdoor paint area, shall not exceed 9.0 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (b) The total input of any combination of HAPs to the outdoor paint area, shall not exceed 24.0 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with these limits, combined with the potential to emit of HAPs from all other emission units at this source, shall limit the source-wide total potential to emit of any single HAP to less than ten (10) tons per 12 consecutive month period and total HAPs to less than twenty-five (25) tons per 12 consecutive month period and shall render 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP) and 326 IAC 2-7 (Part 70 Permits) not applicable.

D.2.3 Particulate [326 IAC 6-3-2(d)]

Pursuant to 326 IAC 6-3-2(d), particulate from the outside paint area, identified as 00600, shall be controlled by the following work practice standards:

- (a) Surface coating operations are to be completed in such a manner that all particulate matter (drift or over spray) remains on the source's property.
- (b) Surface coating with high volume low pressure (HVLP) spray guns will be limited to times when the wind velocity is less than 10 mph.
- (c) Surface coating of flat horizontal surfaces of vessels will be accomplished by rolling or brushing when practical.
- (d) Coatings of inter compartments will be completed within enclosed spaces.

- (e) Surface coating of small parts/fixtures to be attached to vessels will be coated in open areas that are shrouded if needed and is practical.

D.2.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

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

Compliance Determination Requirements

D.2.5 Volatile Organic Compounds (VOC) [326 IAC 8-1-2] [326 IAC 8-1-4]

Compliance with the VOC and HAPs limitations contained in Conditions D.2.1 and D.2.2 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.2.6 Volatile Organic Compounds (VOC) [326 IAC 8-1-2]

Compliance with the VOC content limit in Condition D.2.1 shall be determined pursuant to 326 IAC 8-1-2(a)(7), using a volume weighted average of coatings on a daily basis. This volume weighted average shall be determined by the following equation:

$$A = [\sum (c \times U) / \sum U]$$

Where:

A is the volume weighted average in pounds VOC per gallon less water as applied;

C is the VOC content of the coating in pounds VOC per gallon less water as applied; and

U is the usage rate of the coating in gallons per day.

Compliance Monitoring Requirements

D.2.7 Particulate

Wind velocity will be determined before the start of surface coating and rechecked hourly. If during surface coating operation, the wind velocity exceeds 10 mph, all surface coating with the high volume low pressure (HVLP) spray guns shall cease operations.

D.2.8 Operator Training Requirements

The Permittee shall implement an operator-training program.

- (a) All operators that perform surface coating operations using spray equipment shall be trained on the work practice standards in condition D.2.3. All existing operators shall be trained upon issuance of this permit if training was not completed within the last twelve (12) months. All new operators shall be trained within thirty (30) days of hiring or transfer.
- (b) The training program shall be written and include a description of the methods to be used at the completion of initial and refresher training to demonstrate and document successful completion. Copies of the training program, the list of trained operators and training records shall be maintained on site or available within 1 hour for inspection by IDEM.
- (c) All operators shall be given refresher training annually.

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

D.2.9 Record Keeping Requirements

- (a) To document compliance with Condition D.2.1 the Permittee shall maintain records in accordance with (1) through (5) below. Records maintained for (1) through (5) shall be taken as stated below and shall be complete and sufficient to establish compliance with the VOC usage limit established in condition D.2.1.
- (1) The VOC content of each coating material and solvent used less water.
 - (2) The amount of coating material and solvent used on daily basis.
 - (A) Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used.
 - (B) Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvent.
 - (3) The volume weighted average VOC content of the coatings used for each day;
 - (4) The daily cleanup solvent usage; and
 - (5) The total VOC usage for each day.
-
- (b) To document compliance with Condition D.2.2, the Permittee shall maintain records in accordance with (1) through (5) below. Records maintained for (1) through (5) shall be taken monthly and shall be complete and sufficient to establish compliance with HAPs content limits established in Condition D.2.2. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.
- (1) The HAPs content of each coating material and solvent used.
 - (2) The amount of coating material and solvent less water used on a monthly basis.
 - (A) Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used.
 - (B) Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents.
 - (3) The cleanup solvent usage for each month;
 - (4) The total single and combined HAPs usage for each month; and
 - (5) The total weight of HAPs emitted for each compliance period.
- (c) To document compliance with Condition D.2.7 the Permittee shall maintain a copy of the operator-training program and training records.
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.2.10 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.2.2 shall be submitted to the addresses listed in Section C - General Reporting requirements, of this permit, using the reporting

forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Insignificant Activities

- (a) The following internal combustion engines with compression ignition:
- (1) Two (2) Manitowoc Lift Cranes rated at 610 horsepower each (unit number 2200 and 2205).
 - (2) Equipment rated at less than 600 horsepower:
 - (A) OVH Crane Generator rated at 225 horsepower (unit number 1050).
 - (B) 110 Ton Crane - Truck rated at 275 horsepower (unit number 2010).
 - (C) 110 Ton Crane - Lift rated at 275 horsepower (unit number 2015).
 - (D) 61 B 125 Ton Crawler Crane rated at 300 horsepower (unit number 2025).
 - (E) Gantry #1 and #2 generators rated at 425 horsepower each (unit number 2220 and 2240).
 - (F) American Lift Crane rated at 275 horsepower (unit number 2400).
 - (G) Petibone Lift Crane rated at 105 horsepower (unit number 2500).
- (b) Forty (40) Kerosene space heaters rated at 150,000 BTU/hr each.

(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 FESOP Limits [326 IAC 2-2] [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4, the Permittee shall comply with the following:

- (a) No. 2 diesel fuel usage in the Two (2) Manitowoc Lift Cranes shall not exceed 15,000 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (b) No. 2 diesel fuel usage in the units rated at less than 600 horsepower shall not exceed 60,000 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (c) Kerosene usage in the 40 space heaters shall not exceed 20,000 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with these limits, combined with the potential to emit of SO₂ and NO_x from all other emission units at this source, shall limit the source-wide total potential to emit of SO₂ and NO_x to less than 100 tons per 12 consecutive month period, each and shall render 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-7 (Part 70 Permits) not applicable.

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

D.3.2 Record Keeping Requirements

- (a) To document compliance with Condition D.3.1, the Permittee shall maintain monthly records of the amount of No. 2 diesel fuel and kerosene combusted in the Manitowoc Lift Cranes, equipment rated less than 600 horse power, and the kerosene space heaters.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.3.3 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.3.1 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION E.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (g) Gasoline fuel transfer dispensing operation handling less than 1,300 gallons per day, identified as T-1, with a capacity of 550 gallons. [326 IAC 2-7-1(21)(g)(ii)]. This is an affected facility under 40 CFR 63, Subpart CCCCCC.

(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)]

E.1.1 General Provisions Relating to NESHAP CCCCCC [326 IAC 20-1-1] [40 CFR Part 63, Subpart A]

Pursuant to 40 CFR 63.780, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1-1, as specified in Table 3 of 40 CFR Part 63, Subpart CCCCCC.

E.1.2 Source Category: Gasoline Dispensing Facilities NESHAP [40 CFR Part 63, Subpart CCCCCC]

The Permittee is an area source with gasoline storage tanks at a gasoline dispensing facility, shall comply with the following provisions of 40 CFR 63, Subpart CCCCCC (included as Attachment C of this permit), with a compliance date of January 10, 2011:

- (a) 40 CFR 63.11110
- (b) 40 CFR 63.11111 (a) and (b)
- (c) 40 CFR 63.11112 (a) and (d)
- (d) 40 CFR 63.11113 (b)
- (e) 40 CFR 63.11116
- (f) 40 CFR 63.11130
- (g) 40 CFR 63.11131
- (h) 40 CFR 63.11132

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

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
CERTIFICATION**

Source Name: Corn Island Shipyard
Source Address: 9447 E. SR 66, Grandview, Indiana 47615
Mailing Address: P. O. Box 125, Lamar, IN 47550
FESOP Permit No.: F147-27989-00047

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:

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**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
EMERGENCY OCCURRENCE REPORT**

Source Name: Corn Island Shipyard
Source Address: 9447 E. SR 66, Grandview, Indiana 47615
Mailing Address: P. O. Box 125, Lamar, IN 47550
FESOP Permit No.: F147-27989-00047

This form consists of 2 pages

Page 1 of 2

- | |
|---|
| <input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12) <ul style="list-style-type: none">• The Permittee must notify the Office of Air Quality (OAQ), within four (4) daytime 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 Describe:
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: _____

A certification is not required for this report.

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

FESOP Quarterly Report

Source Name: Corn Island Shipyard
Source Address: 9447 E. SR 66, Grandview, Indiana 47615
Mailing Address: P. O. Box 125, Lamar, IN 47550
FESOP Permit No.: F147-27989-00047
Facility: Pnumatic Blasting Unit, 00200
Parameter: Black Beauty Slag Usage
Limit: ≤ 600 tons of Black Beauty Slag per 12 consecutive month period

Black Beauty Slag: YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	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: _____

Attach a signed certification to complete this report.

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

FESOP Quarterly Report

Source Name: Corn Island Shipyard
 Source Address: 9447 E. SR 66, Grandview, Indiana 47615
 Mailing Address: P. O. Box 125, Lamar, IN 47550
 FESOP Permit No.: F147-27989-00047
 Facility: Outside Paint Area, 00600
 Parameter: HAPs
 Limit: ≤ 24 tons of any combination of HAPs per 12 consecutive month period
 ≤ 9 tons of any single HAP per 12 consecutive month period

Combination of HAPs: _____ YEAR: _____

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

Single highest emission HAP _____ :
 (name of HAP)

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	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: _____

Attach a signed certification to complete this report.

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

FESOP Quarterly Report

Source Name: Corn Island Shipyard
 Source Address: 9447 E. SR 66, Grandview, Indiana 47615
 Mailing Address: P. O. Box 125, Lamar, IN 47550
 FESOP Permit No.: F147-27989-00047
 Facility: Fuel Usage
 Parameter: Diesel and Kerosene Use
 Limit: ≤ 15,000 gallons of Diesel #2 used in equipment greater than 600 horsepower engines per 12 consecutive month period
 ≤ 60,000 gallons of Diesel #2 used in equipment less than 600 horsepower engines per 12 consecutive month period
 ≤ 20,000 gallons of Kerosene in Heaters per 12 consecutive month period

Diesel #2 in >600 HP: YEAR:

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

Diesel #2 in <600 HP: YEAR:

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

Kerosene: YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	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: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR QUALITY
 COMPLIANCE AND ENFORCEMENT BRANCH
 FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
 QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Corn Island Shipyard
 Source Address: 9447 E. SR 66, Grandview, Indiana 47615
 Mailing Address: P. O. Box 125, Lamar, IN 47550
 FESOP Permit No.: F147-27989-00047

Months: _____ **to** _____ **Year:** _____

<p>This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, 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: _____

Attach a signed certification to complete this report.

Mail to: Permit Administration & Support Section
Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

Corn Island Shipyard
9447 E. SR 66
Grandview, Indiana 47615

Affidavit of Construction

I, _____, being duly sworn upon my oath, depose and say:
(Name of the Authorized Representative)

1. I live in _____ County, Indiana and being of sound mind and over twenty-one (21) years of age, I am competent to give this affidavit.
2. I hold the position of _____ for _____
(Title) (Company Name)
3. By virtue of my position with _____, I have personal
(Company Name)
knowledge of the representations contained in this affidavit and am authorized to make these representations on behalf of _____.
(Company Name)
4. I hereby certify that Corn Island Shipyard 9447 E. SR 66, Grandview, Indiana 47615, completed construction of the Shipyard fabrication and repair on _____ in conformity with the requirements and intent of the construction permit application received by the Office of Air Quality on May 27, 2009 and as permitted pursuant to New Source Construction Permit and Federally Enforceable State Operating Permit No. F147-27989-00047, Plant ID No. 147-00047 issued on _____.

Further Affiant said not.

I affirm under penalties of perjury that the representations contained in this affidavit are true, to the best of my information and belief.

Signature _____
Date _____

STATE OF INDIANA)
)SS

COUNTY OF _____)

Subscribed and sworn to me, a notary public in and for _____ County and State of Indiana
on this _____ day of _____, 20 _____. My Commission expires: _____.

Signature _____
Name _____ (typed or printed)

Corn Island Shipyard, Inc.
P.O. Box 125
Lamar, IN 47550

Attachment A
GSD-06

Corn Island Shipyard, Fugitive Dust Control Plan

Hauling on Unpaved Roads (00100)

- a) Appropriate speed limits will be posted and enforced.
- b) A dust suppressant, calcium chloride, will be periodically applied to interior gravel roads to ensure retention of surface moisture.
- c) Water will be applied as necessary to control emissions, utilizing a water truck.

Abrasive Blasting (00200)

- a) Abrasive blasting operations will be temporally suspended when the mean air velocity rises above 10 mph.
- b) Residue will be wet down before handling it for disposal.

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

Attachment B

**National Emission Standards for Hazardous Air Pollutants
Requirements
for Corn Island Shipyard**

Title 40: Protection of Environment

PART 63—NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR SOURCE CATEGORIES

Subpart CCCCCC—National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities

Source: 73 FR 1945, Jan. 10, 2008, unless otherwise noted.

What This Subpart Covers

§ 63.11110 What is the purpose of this subpart?

This subpart establishes national emission limitations and management practices for hazardous air pollutants (HAP) emitted from the loading of gasoline storage tanks at gasoline dispensing facilities (GDF). This subpart also establishes requirements to demonstrate compliance with the emission limitations and management practices.

§ 63.11111 Am I subject to the requirements in this subpart?

(a) The affected source to which this subpart applies is each GDF that is located at an area source. The affected source includes each gasoline cargo tank during the delivery of product to a GDF and also includes each storage tank.

(b) If your GDF has a monthly throughput of less than 10,000 gallons of gasoline, you must comply with the requirements in §63.11116.

(c) If your GDF has a monthly throughput of 10,000 gallons of gasoline or more, you must comply with the requirements in §63.11117.

(d) If your GDF has a monthly throughput of 100,000 gallons of gasoline or more, you must comply with the requirements in §63.11118.

(e) An affected source shall, upon request by the Administrator, demonstrate that their average monthly throughput is less than the 10,000-gallon or the 100,000-gallon threshold level, as applicable.

(f) If you are an owner or operator of affected sources, as defined in paragraph (a) of this section, you are not required to obtain a permit under 40 CFR part 70 or 40 CFR part 71 as a result of being subject to this subpart. However, you must still apply for and obtain a permit under 40 CFR part 70 or 40 CFR part 71 if you meet one or more of the applicability criteria found in 40 CFR 70.3(a) and (b) or 40 CFR 71.3(a) and (b).

(g) The loading of aviation gasoline storage tanks at airports is not subject to this subpart and the aviation gasoline is not included in the gasoline throughput specified in paragraphs (b) through (e) of this section.

§ 63.11112 What parts of my affected source does this subpart cover?

(a) The emission sources to which this subpart applies are gasoline storage tanks and associated equipment components in vapor or liquid gasoline service at new, reconstructed, or existing GDF that meet the criteria specified in §63.11111. Pressure/Vacuum vents on gasoline storage tanks and the equipment necessary to unload product from cargo tanks into the storage tanks at GDF are covered emission sources. The equipment used for the refueling of motor vehicles is not covered by this subpart.

(b) An affected source is a new affected source if you commenced construction on the affected source after November 9, 2006, and you meet the applicability criteria in §63.11111 at the time you commenced operation.

(c) An affected source is reconstructed if you meet the criteria for reconstruction as defined in §63.2.

(d) An affected source is an existing affected source if it is not new or reconstructed.

§ 63.11113 When do I have to comply with this subpart?

(a) If you have a new or reconstructed affected source, you must comply with this subpart according to paragraphs (a)(1) and (2) of this section, except as specified in paragraph (d) of this section.

(1) If you start up your affected source before January 10, 2008, you must comply with the standards in this subpart no later than January 10, 2008.

(2) If you start up your affected source after January 10, 2008, you must comply with the standards in this subpart upon startup of your affected source.

(b) If you have an existing affected source, you must comply with the standards in this subpart no later than January 10, 2011.

(c) If you have an existing affected source that becomes subject to the control requirements in this subpart because of an increase in the average monthly throughput, as specified in §63.11111(c) or §63.11111(d), you must comply with the standards in this subpart no later than 3 years after the affected source becomes subject to the control requirements in this subpart.

(d) If you have a new or reconstructed affected source and you are complying with Table 1 to this subpart, you must comply according to paragraphs (d)(1) and (2) of this section.

(1) If you start up your affected source from November 9, 2006 to September 23, 2008, you must comply no later than September 23, 2008.

(2) If you start up your affected source after September 23, 2008, you must comply upon startup of your affected source.

[73 FR 1945, Jan. 10, 2008, as amended at 73 FR 35944, June 25, 2008]

Emission Limitations and Management Practices

§ 63.11116 Requirements for facilities with monthly throughput of less than 10,000 gallons of gasoline.

(a) You must not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following:

(1) Minimize gasoline spills;

(2) Clean up spills as expeditiously as practicable;

(3) Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use;

(4) Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.

(b) You are not required to submit notifications or reports, but you must have records available within 24 hours of a request by the Administrator to document your gasoline throughput.

(c) You must comply with the requirements of this subpart by the applicable dates specified in §63.11113.

§ 63.11117 Requirements for facilities with monthly throughput of 10,000 gallons of gasoline or more.

(a) You must comply with the requirements in section §63.11116(a).

(b) Except as specified in paragraph (c), you must only load gasoline into storage tanks at your facility by utilizing submerged filling, as defined in §63.11132, and as specified in paragraph (b)(1) or paragraph (b)(2) of this section.

(1) Submerged fill pipes installed on or before November 9, 2006, must be no more than 12 inches from the bottom of the storage tank.

(2) Submerged fill pipes installed after November 9, 2006, must be no more than 6 inches from the bottom of the storage tank.

(c) Gasoline storage tanks with a capacity of less than 250 gallons are not required to comply with the submerged fill requirements in paragraph (b) of this section, but must comply only with all of the requirements in §63.11116.

(d) You must have records available within 24 hours of a request by the Administrator to document your gasoline throughput.

(e) You must submit the applicable notifications as required under §63.11124(a).

(f) You must comply with the requirements of this subpart by the applicable dates contained in §63.11113.

[73 FR 1945, Jan. 10, 2008, as amended at 73 FR 12276, Mar. 7, 2008]

§ 63.11118 Requirements for facilities with monthly throughput of 100,000 gallons of gasoline or more.

(a) You must comply with the requirements in §§63.11116(a) and 63.11117(b).

(b) Except as provided in paragraph (c) of this section, you must meet the requirements in either paragraph (b)(1) or paragraph (b)(2) of this section.

(1) Each management practice in Table 1 to this subpart that applies to your GDF.

(2) If, prior to January 10, 2008, you satisfy the requirements in both paragraphs (b)(2)(i) and (ii) of this section, you will be deemed in compliance with this subsection.

(i) You operate a vapor balance system at your GDF that meets the requirements of either paragraph (b)(2)(i)(A) or paragraph (b)(2)(i)(B) of this section.

(A) Achieves emissions reduction of at least 90 percent.

(B) Operates using management practices at least as stringent as those in Table 1 to this subpart.

(ii) Your gasoline dispensing facility is in compliance with an enforceable State, local, or tribal rule or permit that contains requirements of either paragraph (b)(2)(i)(A) or paragraph (b)(2)(i)(B) of this section.

(c) The emission sources listed in paragraphs (c)(1) through (3) of this section are not required to comply with the control requirements in paragraph (b) of this section, but must comply with the requirements in §63.11117.

- (1) Gasoline storage tanks with a capacity of less than 250 gallons that are constructed after January 10, 2008.
- (2) Gasoline storage tanks with a capacity of less than 2,000 gallons that were constructed before January 10, 2008.
- (3) Gasoline storage tanks equipped with floating roofs, or the equivalent.
- (d) Cargo tanks unloading at GDF must comply with the management practices in Table 2 to this subpart.
- (e) You must comply with the applicable testing requirements contained in §63.11120.
- (f) You must submit the applicable notifications as required under §63.11124.
- (g) You must keep records and submit reports as specified in §§63.11125 and 63.11126.
- (h) You must comply with the requirements of this subpart by the applicable dates contained in §63.11113.

[73 FR 1945, Jan. 10, 2008, as amended at 73 FR 12276, Mar. 7, 2008]

Testing and Monitoring Requirements

§ 63.11120 What testing and monitoring requirements must I meet?

(a) Each owner or operator, at the time of installation of a vapor balance system required under §63.11118(b)(1), and every 3 years thereafter, must comply with the requirements in paragraphs (a)(1) and (2) of this section.

(1) You must demonstrate compliance with the leak rate and cracking pressure requirements, specified in item 1(g) of Table 1 to this subpart, for pressure-vacuum vent valves installed on your gasoline storage tanks using the test methods identified in paragraph (a)(1)(i) or paragraph (a)(1)(ii) of this section.

(i) California Air Resources Board Vapor Recovery Test Procedure TP-201.1E,—Leak Rate and Cracking Pressure of Pressure/Vacuum Vent Valves, adopted October 8, 2003 (incorporated by reference, see §63.14).

(ii) Use alternative test methods and procedures in accordance with the alternative test method requirements in §63.7(f).

(2) You must demonstrate compliance with the static pressure performance requirement, specified in item 1(h) of Table 1 to this subpart, for your vapor balance system by conducting a static pressure test on your gasoline storage tanks using the test methods identified in paragraph (a)(2)(i) or paragraph (a)(2)(ii) of this section.

(i) California Air Resources Board Vapor Recovery Test Procedure TP-201.3,—Determination of 2-Inch WC Static Pressure Performance of Vapor Recovery Systems of Dispensing Facilities, adopted April 12, 1996, and amended March 17, 1999 (incorporated by reference, see §63.14).

(ii) Use alternative test methods and procedures in accordance with the alternative test method requirements in §63.7(f).

(b) Each owner or operator choosing, under the provisions of §63.6(g), to use a vapor balance system other than that described in Table 1 to this subpart must demonstrate to the Administrator or delegated authority under paragraph §63.11131(a) of this subpart, the equivalency of their vapor balance system to that described in Table 1 to this subpart using the procedures specified in paragraphs (b)(1) through (3) of this section.

(1) You must demonstrate initial compliance by conducting an initial performance test on the vapor balance system to demonstrate that the vapor balance system achieves 95 percent reduction using the California Air Resources Board Vapor Recovery Test Procedure TP-201.1,—Volumetric Efficiency for Phase I Vapor Recovery Systems, adopted April 12, 1996, and amended February 1, 2001, and October 8, 2003, (incorporated by reference, see §63.14).

(2) You must, during the initial performance test required under paragraph (b)(1) of this section, determine and document alternative acceptable values for the leak rate and cracking pressure requirements specified in item 1(g) of Table 1 to this subpart and for the static pressure performance requirement in item 1(h) of Table 1 to this subpart.

(3) You must comply with the testing requirements specified in paragraph (a) of this section.

Notifications, Records, and Reports

§ 63.11124 What notifications must I submit and when?

(a) Each owner or operator subject to the control requirements in §63.11117 must comply with paragraphs (a)(1) through (3) of this section.

(1) You must submit an Initial Notification that you are subject to this subpart by May 9, 2008, or at the time you become subject to the control requirements in §63.11117, unless you meet the requirements in paragraph (a)(3) of this section. The Initial Notification must contain the information specified in paragraphs (a)(1)(i) through (iii) of this section. The notification must be submitted to the applicable EPA Regional Office and delegated State authority as specified in §63.13.

(i) The name and address of the owner and the operator.

(ii) The address (i.e., physical location) of the GDF.

(iii) A statement that the notification is being submitted in response to this subpart and identifying the requirements in paragraphs (a) through (c) of §63.11117 that apply to you.

(2) You must submit a Notification of Compliance Status to the applicable EPA Regional Office and the delegated State authority, as specified in §63.13, by the compliance date specified in §63.11113 unless you meet the requirements in paragraph (a)(3) of this section. The Notification of Compliance Status must be signed by a responsible official who must certify its accuracy and must indicate whether the source has complied with the requirements of this subpart. If your facility is in compliance with the requirements of this subpart at the time the Initial Notification required under paragraph (a)(1) of this section is due, the Notification of Compliance Status may be submitted in lieu of the Initial Notification provided it contains the information required under paragraph (a)(1) of this section.

(3) If, prior to January 10, 2008, you are operating in compliance with an enforceable State, local, or tribal rule or permit that requires submerged fill as specified in §63.11117(b), you are not required to submit an Initial Notification or a Notification of Compliance Status under paragraph (a)(1) or paragraph (a)(2) of this section.

(b) Each owner or operator subject to the control requirements in §63.11118 must comply with paragraphs (b)(1) through (5) of this section.

(1) You must submit an Initial Notification that you are subject to this subpart by May 9, 2008, or at the time you become subject to the control requirements in §63.11118. The Initial Notification must contain the information specified in paragraphs (b)(1)(i) through (iii) of this section. The notification must be submitted to the applicable EPA Regional Office and the delegated State authority as specified in §63.13.

(i) The name and address of the owner and the operator.

(ii) The address (i.e., physical location) of the GDF.

(iii) A statement that the notification is being submitted in response to this subpart and identifying the requirements in paragraphs (a) through (c) of §63.11118 that apply to you.

(2) You must submit a Notification of Compliance Status to the applicable EPA Regional Office and the delegated State authority, as specified in §63.13, by the compliance date specified in §63.11113. The Notification of Compliance Status must be signed by a responsible official who must certify its accuracy and must indicate whether the source has complied with the requirements of this subpart. If your facility is in compliance with the requirements of this subpart at the time the Initial Notification required under paragraph (b)(1) of this section is due, the Notification of Compliance Status may be submitted in lieu of the Initial Notification provided it contains the information required under paragraph (b)(1) of this section.

(3) If, prior to January 10, 2008, you satisfy the requirements in both paragraphs (b)(3)(i) and (ii) of this section, you are not required to submit an Initial Notification or a Notification of Compliance Status under paragraph (b)(1) or paragraph (b)(2) of this subsection.

(i) You operate a vapor balance system at your gasoline dispensing facility that meets the requirements of either paragraphs (b)(3)(i)(A) or (b)(3)(i)(B) of this section.

(A) Achieves emissions reduction of at least 90 percent.

(B) Operates using management practices at least as stringent as those in Table 1 to this subpart.

(ii) Your gasoline dispensing facility is in compliance with an enforceable State, local, or tribal rule or permit that contains requirements of either paragraphs (b)(3)(i)(A) or (b)(3)(i)(B) of this section.

(4) You must submit a Notification of Performance Test, as specified in §63.9(e), prior to initiating testing required by §63.11120(a) and (b).

(5) You must submit additional notifications specified in §63.9, as applicable.

[73 FR 1945, Jan. 10, 2008, as amended at 73 FR 12276, Mar. 7, 2008]

§ 63.11125 What are my recordkeeping requirements?

(a) Each owner or operator subject to the management practices in §63.11118 must keep records of all tests performed under §63.11120(a) and (b).

(b) Records required under paragraph (a) of this section shall be kept for a period of 5 years and shall be made available for inspection by the Administrator's delegated representatives during the course of a site visit.

§ 63.11126 What are my reporting requirements?

Each owner or operator subject to the management practices in §63.11118 shall report to the Administrator the results of all volumetric efficiency tests required under §63.11120(b). Reports submitted under this paragraph must be submitted within 180 days of the completion of the performance testing.

Other Requirements and Information

§ 63.11130 What parts of the General Provisions apply to me?

Table 3 to this subpart shows which parts of the General Provisions apply to you.

§ 63.11131 Who implements and enforces this subpart?

(a) This subpart can be implemented and enforced by the U.S. EPA or a delegated authority such as the applicable State, local, or tribal agency. If the U.S. EPA Administrator has delegated authority to a State, local, or tribal agency, then that agency, in addition to the U.S. EPA, has the authority to implement and enforce this subpart. Contact the applicable U.S. EPA Regional Office to find out if implementation and enforcement of this subpart is delegated to a State, local, or tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under subpart E of this part, the authorities contained in paragraph (c) of this section are retained by the Administrator of U.S. EPA and cannot be transferred to the State, local, or tribal agency.

(c) The authorities that cannot be delegated to State, local, or tribal agencies are as specified in paragraphs (c)(1) through (3) of this section.

(1) Approval of alternatives to the requirements in §§63.11116 through 63.11118 and 63.11120.

(2) Approval of major alternatives to test methods under §63.7(e)(2)(ii) and (f), as defined in §63.90, and as required in this subpart.

(3) Approval of major alternatives to recordkeeping and reporting under §63.10(f), as defined in §63.90, and as required in this subpart.

§ 63.11132 What definitions apply to this subpart?

As used in this subpart, all terms not defined herein shall have the meaning given them in the Clean Air Act (CAA), or in subparts A and BBBB of this part. For purposes of this subpart, definitions in this section supersede definitions in other parts or subparts.

Dual-point vapor balance system means a type of vapor balance system in which the storage tank is equipped with an entry port for a gasoline fill pipe and a separate exit port for a vapor connection.

Gasoline cargo tank means a delivery tank truck or railcar which is loading gasoline or which has loaded gasoline on the immediately previous load.

Gasoline dispensing facility (GDF) means any stationary facility which dispenses gasoline into the fuel tank of a motor vehicle.

Monthly throughput means the total volume of gasoline that is loaded into all gasoline storage tanks during a month, as calculated on a rolling 30-day average.

Submerged filling means, for the purposes of this subpart, the filling of a gasoline storage tank through a submerged fill pipe whose discharge is no more than the applicable distance specified in §63.11117(b) from the bottom of the tank. Bottom filling of gasoline storage tanks is included in this definition.

Vapor balance system means a combination of pipes and hoses that create a closed system between the vapor spaces of an unloading gasoline cargo tank and a receiving storage tank such that vapors displaced from the storage tank are transferred to the gasoline cargo tank being unloaded.

Vapor-tight means equipment that allows no loss of vapors. Compliance with vapor-tight requirements can be determined by checking to ensure that the concentration at a potential leak source is not equal to or greater than 100 percent of the Lower Explosive Limit when measured with a combustible gas detector, calibrated with propane, at a distance of 1 inch from the source.

Table 1 to Subpart CCCCCC of Part 63—Applicability Criteria and Management Practices for Gasoline Dispensing Facilities With Monthly Throughput of 100,000 Gallons of Gasoline or More

If you own or operate	Then you must
1. A new, reconstructed, or existing GDF subject to §63.11118	Install and operate a vapor balance system on your gasoline storage tanks that meets the design criteria in paragraphs (a) through (h).
	(a) All vapor connections and lines on the storage tank shall be equipped with closures that seal upon disconnect.
	(b) The vapor line from the gasoline storage tank to the gasoline cargo tank shall be vapor-tight, as defined in §63.11132.
	(c) The vapor balance system shall be designed such that the pressure in the tank truck does not exceed 18 inches water pressure or 5.9 inches water vacuum during product transfer.
	(d) The vapor recovery and product adaptors, and the method of connection with the delivery elbow, shall be designed so as to prevent the over-tightening or loosening of fittings during normal delivery operations.
	(e) If a gauge well separate from the fill tube is used, it shall be provided with a submerged drop tube that extends the same distance from the bottom of the storage tank as specified in §63.11117(b).
	(f) Liquid fill connections for all systems shall be equipped with vapor-tight caps.
	(g) Pressure/vacuum (PV) vent valves shall be installed on the storage tank vent pipes. The pressure specifications for PV vent valves shall be: a positive pressure setting of 2.5 to 6.0 inches of water and a negative pressure setting of 6.0 to 10.0 inches of water. The total leak rate of all PV vent valves at an affected facility, including connections, shall not exceed 0.17 cubic foot per hour at a pressure of 2.0 inches of water and 0.63 cubic foot per hour at a vacuum of 4 inches of water.
	(h) The vapor balance system shall be capable of meeting the static pressure performance requirement of the following equation:
	$P_f = 2e^{-500.887/v}$
	Where:
	P _f = Minimum allowable final pressure, inches of water.
	v = Total ullage affected by the test, gallons.

If you own or operate	Then you must
	e = Dimensionless constant equal to approximately 2.718.
	2 = The initial pressure, inches water.
2. For new or reconstructed GDF, or new storage tank(s) at an existing affected facility subject to §63.11118	Equip your gasoline storage tanks with a dual-point vapor balance system, as defined in §63.11132, and comply with the requirements of item 1 in this Table.

[73 FR 1945, Jan. 10, 2008, as amended at 73 FR 35944, June 25, 2008]

Table 2 to Subpart CCCCC of Part 63—Applicability Criteria and Management Practices for Gasoline Cargo Tanks Unloading at Gasoline Dispensing Facilities With Monthly Throughput of 100,000 Gallons of Gasoline or More

If you own or operate	Then you must
A gasoline cargo tank	Not unload gasoline into a storage tank at a GDF subject to the control requirements in this subpart unless the following conditions are met:
	(i) All hoses in the vapor balance system are properly connected,
	(ii) The adapters or couplers that attach to the vapor line on the storage tank have closures that seal upon disconnect,
	(iii) All vapor return hoses, couplers, and adapters used in the gasoline delivery are vapor-tight,
	(iv) All tank truck vapor return equipment is compatible in size and forms a vapor-tight connection with the vapor balance equipment on the GDF storage tank, and
	(v) All hatches on the tank truck are closed and securely fastened.
	(vi) The filling of storage tanks at GDF shall be limited to unloading by vapor-tight gasoline cargo tanks. Documentation that the cargo tank has met the specifications of EPA Method 27 shall be carried on the cargo tank.

Table 3 to Subpart CCCCC of Part 63—Applicability of General Provisions

Citation	Subject	Brief description	Applies to subpart CCCCC
§63.1	Applicability	Initial applicability determination; applicability after standard established; permit requirements; extensions, notifications	Yes, specific requirements given in §63.11111.
§63.1(c)(2)	Title V Permit	Requirements for obtaining a title V permit from the applicable permitting authority	Yes, §63.11111(f) of subpart CCCCC exempts identified area sources from the obligation to obtain title V operating permits.
§63.2	Definitions	Definitions for part 63 standards	Yes, additional definitions in §63.11132.
§63.3	Units and Abbreviations	Units and abbreviations for part 63 standards	Yes.
§63.4	Prohibited Activities and Circumvention	Prohibited activities; Circumvention, severability	Yes.
§63.5	Construction/Reconstruction	Applicability; applications; approvals	Yes.
§63.6(a)	Compliance with Standards/Operation & Maintenance—Applicability	General Provisions apply unless compliance extension; General Provisions apply to area sources that become major	Yes.
§63.6(b)(1)–(4)	Compliance Dates for New and Reconstructed Sources	Standards apply at effective date; 3 years after effective date; upon startup; 10 years after construction or reconstruction commences for CAA section 112(f)	Yes.

Citation	Subject	Brief description	Applies to subpart CCCCC
§63.6(b)(5)	Notification	Must notify if commenced construction or reconstruction after proposal	Yes.
§63.6(b)(6)	[Reserved]		
§63.6(b)(7)	Compliance Dates for New and Reconstructed Area Sources That Become Major	Area sources that become major must comply with major source standards immediately upon becoming major, regardless of whether required to comply when they were an area source	No.
§63.6(c)(1)–(2)	Compliance Dates for Existing Sources	Comply according to date in this subpart, which must be no later than 3 years after effective date; for CAA section 112(f) standards, comply within 90 days of effective date unless compliance extension	No, §63.11113 specifies the compliance dates.
§63.6(c)(3)–(4)	[Reserved]		
§63.6(c)(5)	Compliance Dates for Existing Area Sources That Become Major	Area sources That become major must comply with major source standards by date indicated in this subpart or by equivalent time period (e.g., 3 years)	No.
§63.6(d)	[Reserved]		
§63.6(e)(1)	Operation & Maintenance	Operate to minimize emissions at all times; correct malfunctions as soon as practicable; and operation and maintenance requirements independently enforceable; information Administrator will use to determine if operation and maintenance requirements were met	Yes.
§63.6(e)(2)	[Reserved]		
§63.6(e)(3)	Startup, Shutdown, and	Requirement for SSM plan;	No.

Citation	Subject	Brief description	Applies to subpart CCCCC
	Malfunction (SSM) Plan	content of SSM plan; actions during SSM	
§63.6(f)(1)	Compliance Except During SSM	You must comply with emission standards at all times except during SSM	No.
§63.6(f)(2)–(3)	Methods for Determining Compliance	Compliance based on performance test, operation and maintenance plans, records, inspection	Yes.
§63.6(g)(1)–(3)	Alternative Standard	Procedures for getting an alternative standard	Yes.
§63.6(h)(1)	Compliance with Opacity/Visible Emission (VE) Standards	You must comply with opacity/VE standards at all times except during SSM	No.
§63.6(h)(2)(i)	Determining Compliance with Opacity/VE Standards	If standard does not State test method, use EPA Method 9 for opacity in appendix A of part 60 of this chapter and EPA Method 22 for VE in appendix A of part 60 of this chapter	No.
§63.6(h)(2)(ii)	[Reserved]		
§63.6(h)(2)(iii)	Using Previous Tests To Demonstrate Compliance With Opacity/VE Standards	Criteria for when previous opacity/VE testing can be used to show compliance with this subpart	No.
§63.6(h)(3)	[Reserved]		
§63.6(h)(4)	Notification of Opacity/VE Observation Date	Must notify Administrator of anticipated date of observation	No.
§63.6(h)(5)(i), (iii)–(v)	Conducting Opacity/VE Observations	Dates and schedule for conducting opacity/VE observations	No.
§63.6(h)(5)(ii)	Opacity Test Duration and Averaging Times	Must have at least 3 hours of observation with 30 6-minute averages	No.
§63.6(h)(6)	Records of Conditions	Must keep records available and	No.

Citation	Subject	Brief description	Applies to subpart CCCCC
	During Opacity/VE Observations	allow Administrator to inspect	
§63.6(h)(7)(i)	Report Continuous Opacity Monitoring System (COMS) Monitoring Data From Performance Test	Must submit COMS data with other performance test data	No.
§63.6(h)(7)(ii)	Using COMS Instead of EPA Method 9	Can submit COMS data instead of EPA Method 9 results even if rule requires EPA Method 9 in appendix A of part 60 of this chapter, but must notify Administrator before performance test	No.
§63.6(h)(7)(iii)	Averaging Time for COMS During Performance Test	To determine compliance, must reduce COMS data to 6-minute averages	No.
§63.6(h)(7)(iv)	COMS Requirements	Owner/operator must demonstrate that COMS performance evaluations are conducted according to §63.8(e); COMS are properly maintained and operated according to §63.8(c) and data quality as §63.8(d)	No.
§63.6(h)(7)(v)	Determining Compliance with Opacity/VE Standards	COMS is probable but not conclusive evidence of compliance with opacity standard, even if EPA Method 9 observation shows otherwise. Requirements for COMS to be probable evidence-proper maintenance, meeting Performance Specification 1 in appendix B of part 60 of this chapter, and data have not been altered	No.
§63.6(h)(8)	Determining Compliance with Opacity/VE Standards	Administrator will use all COMS, EPA Method 9 (in	No.

Citation	Subject	Brief description	Applies to subpart CCCCC
		appendix A of part 60 of this chapter), and EPA Method 22 (in appendix A of part 60 of this chapter) results, as well as information about operation and maintenance to determine compliance	
§63.6(h)(9)	Adjusted Opacity Standard	Procedures for Administrator to adjust an opacity standard	No.
§63.6(i)(1)–(14)	Compliance Extension	Procedures and criteria for Administrator to grant compliance extension	Yes.
§63.6(j)	Presidential Compliance Exemption	President may exempt any source from requirement to comply with this subpart	Yes.
§63.7(a)(2)	Performance Test Dates	Dates for conducting initial performance testing; must conduct 180 days after compliance date	Yes.
§63.7(a)(3)	CAA Section 114 Authority	Administrator may require a performance test under CAA section 114 at any time	Yes.
§63.7(b)(1)	Notification of Performance Test	Must notify Administrator 60 days before the test	Yes.
§63.7(b)(2)	Notification of Re-scheduling	If have to reschedule performance test, must notify Administrator of rescheduled date as soon as practicable and without delay	Yes.
§63.7(c)	Quality Assurance (QA)/Test Plan	Requirement to submit site-specific test plan 60 days before the test or on date Administrator agrees with; test plan approval procedures; performance audit requirements; internal and external QA procedures for testing	Yes.

Citation	Subject	Brief description	Applies to subpart CCCCC
§63.7(d)	Testing Facilities	Requirements for testing facilities	Yes.
§63.7(e)(1)	Conditions for Conducting Performance Tests	Performance tests must be conducted under representative conditions; cannot conduct performance tests during SSM	Yes.
§63.7(e)(2)	Conditions for Conducting Performance Tests	Must conduct according to this subpart and EPA test methods unless Administrator approves alternative	Yes.
§63.7(e)(3)	Test Run Duration	Must have three test runs of at least 1 hour each; compliance is based on arithmetic mean of three runs; conditions when data from an additional test run can be used	Yes.
§63.7(f)	Alternative Test Method	Procedures by which Administrator can grant approval to use an intermediate or major change, or alternative to a test method	Yes.
§63.7(g)	Performance Test Data Analysis	Must include raw data in performance test report; must submit performance test data 60 days after end of test with the Notification of Compliance Status; keep data for 5 years	Yes.
§63.7(h)	Waiver of Tests	Procedures for Administrator to waive performance test	Yes.
§63.8(a)(1)	Applicability of Monitoring Requirements	Subject to all monitoring requirements in standard	Yes.
§63.8(a)(2)	Performance Specifications	Performance Specifications in appendix B of 40 CFR part 60 apply	Yes.
§63.8(a)(3)	[Reserved]		
§63.8(a)(4)	Monitoring of Flares	Monitoring requirements for	Yes.

Citation	Subject	Brief description	Applies to subpart CCCCC
		flares in §63.11 apply	
§63.8(b)(1)	Monitoring	Must conduct monitoring according to standard unless Administrator approves alternative	Yes.
§63.8(b)(2)–(3)	Multiple Effluents and Multiple Monitoring Systems	Specific requirements for installing monitoring systems; must install on each affected source or after combined with another affected source before it is released to the atmosphere provided the monitoring is sufficient to demonstrate compliance with the standard; if more than one monitoring system on an emission point, must report all monitoring system results, unless one monitoring system is a backup	No.
§63.8(c)(1)	Monitoring System Operation and Maintenance	Maintain monitoring system in a manner consistent with good air pollution control practices	No.
§63.8(c)(1)(i)–(iii)	Routine and Predictable SSM	Follow the SSM plan for routine repairs; keep parts for routine repairs readily available; reporting requirements for SSM when action is described in SSM plan	No.
§63.8(c)(2)–(8)	Continuous Monitoring System (CMS) Requirements	Must install to get representative emission or parameter measurements; must verify operational status before or at performance test	No.
§63.8(d)	CMS Quality Control	Requirements for CMS quality control, including calibration, etc.; must keep quality control plan on record for 5 years; keep old versions for 5 years after	No.

Citation	Subject	Brief description	Applies to subpart CCCCC
		revisions	
§63.8(e)	CMS Performance Evaluation	Notification, performance evaluation test plan, reports	No.
§63.8(f)(1)–(5)	Alternative Monitoring Method	Procedures for Administrator to approve alternative monitoring	No.
§63.8(f)(6)	Alternative to Relative Accuracy Test	Procedures for Administrator to approve alternative relative accuracy tests for continuous emissions monitoring system (CEMS)	No.
§63.8(g)	Data Reduction	COMS 6-minute averages calculated over at least 36 evenly spaced data points; CEMS 1 hour averages computed over at least 4 equally spaced data points; data that cannot be used in average	No.
§63.9(a)	Notification Requirements	Applicability and State delegation	Yes.
§63.9(b)(1)–(2), (4)–(5)	Initial Notifications	Submit notification within 120 days after effective date; notification of intent to construct/reconstruct, notification of commencement of construction/reconstruction, notification of startup; contents of each	Yes.
§63.9(c)	Request for Compliance Extension	Can request if cannot comply by date or if installed best available control technology or lowest achievable emission rate	Yes.
§63.9(d)	Notification of Special Compliance Requirements for New Sources	For sources that commence construction between proposal and promulgation and want to comply 3 years after effective date	Yes.
§63.9(e)	Notification of Performance	Notify Administrator 60 days	Yes.

Citation	Subject	Brief description	Applies to subpart CCCCCC
	Test	prior	
§63.9(f)	Notification of VE/Opacity Test	Notify Administrator 30 days prior	No.
§63.9(g)	Additional Notifications when Using CMS	Notification of performance evaluation; notification about use of COMS data; notification that exceeded criterion for relative accuracy alternative	Yes, however, there are no opacity standards.
§63.9(h)(1)–(6)	Notification of Compliance Status	Contents due 60 days after end of performance test or other compliance demonstration, except for opacity/VE, which are due 30 days after; when to submit to Federal vs. State authority	Yes, however, there are no opacity standards.
§63.9(i)	Adjustment of Submittal Deadlines	Procedures for Administrator to approve change when notifications must be submitted	Yes.
§63.9(j)	Change in Previous Information	Must submit within 15 days after the change	Yes.
§63.10(a)	Recordkeeping/Reporting	Applies to all, unless compliance extension; when to submit to Federal vs. State authority; procedures for owners of more than one source	Yes.
§63.10(b)(1)	Recordkeeping/Reporting	General requirements; keep all records readily available; keep for 5 years	Yes.
§63.10(b)(2)(i)–(iv)	Records Related to SSM	Occurrence of each for operations (process equipment); occurrence of each malfunction of air pollution control equipment; maintenance on air pollution control equipment; actions during SSM	No.
§63.10(b)(2)(vi)–(xi)	CMS Records	Malfunctions, inoperative, out-of-control periods	No.

Citation	Subject	Brief description	Applies to subpart CCCCC
§63.10(b)(2)(xii)	Records	Records when under waiver	Yes.
§63.10(b)(2)(xiii)	Records	Records when using alternative to relative accuracy test	Yes.
§63.10(b)(2)(xiv)	Records	All documentation supporting Initial Notification and Notification of Compliance Status	Yes.
§63.10(b)(3)	Records	Applicability determinations	Yes.
§63.10(c)	Records	Additional records for CMS	No.
§63.10(d)(1)	General Reporting Requirements	Requirement to report	Yes.
§63.10(d)(2)	Report of Performance Test Results	When to submit to Federal or State authority	Yes.
§63.10(d)(3)	Reporting Opacity or VE Observations	What to report and when	No.
§63.10(d)(4)	Progress Reports	Must submit progress reports on schedule if under compliance extension	Yes.
§63.10(d)(5)	SSM Reports	Contents and submission	Yes.
§63.10(e)(1)–(2)	Additional CMS Reports	Must report results for each CEMS on a unit; written copy of CMS performance evaluation; two-three copies of COMS performance evaluation	No.
§63.10(e)(3)(i)–(iii)	Reports	Schedule for reporting excess emissions	Yes, note that §63.11130(K) specifies excess emission events for this subpart.
§63.10(e)(3)(iv)–(v)	Excess Emissions Reports	Requirement to revert to quarterly submission if there is an excess emissions and parameter monitor exceedances (now defined as deviations); provision to request semiannual	No, §63.11130(K) specifies excess emission events for this subpart.

Citation	Subject	Brief description	Applies to subpart CCCCC
		reporting after compliance for 1 year; submit report by 30th day following end of quarter or calendar half; if there has not been an exceedance or excess emissions (now defined as deviations), report contents in a statement that there have been no deviations; must submit report containing all of the information in §§63.8(c)(7)–(8) and 63.10(c)(5)–(13)	
§63.10(e)(3)(vi)–(viii)	Excess Emissions Report and Summary Report	Requirements for reporting excess emissions for CMS; requires all of the information in §§63.10(c)(5)–(13) and 63.8(c)(7)–(8)	No.
§63.10(e)(4)	Reporting COMS Data	Must submit COMS data with performance test data	No.
§63.10(f)	Waiver for Recordkeeping/Reporting	Procedures for Administrator to waive	Yes.
§63.11(b)	Flares	Requirements for flares	No.
§63.12	Delegation	State authority to enforce standards	Yes.
§63.13	Addresses	Addresses where reports, notifications, and requests are sent	Yes.
§63.14	Incorporations by Reference	Test methods incorporated by reference	Yes.
§63.15	Availability of Information	Public and confidential information	Yes.

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

Addendum to the Technical Support Document (ATSD) for a
New Source Construction and
Federally Enforceable State Operating Permit

Source Background and Description

Source Name:	Corn Island Shipyard
Source Location:	9447 E. SR 66, Grandview, IN 47615
County:	Spencer (Hammond Township)
SIC Code:	3731
Operation Permit No.:	F 147-27989-00047
Permit Reviewer:	Bruce Farrar

On October 22, 2009, the Office of Air Quality (OAQ) had a notice published in The Journal Democrat, Rockport, Indiana, stating that Corn Island Shipyard had applied for a New Source Construction and Federally Enforceable State Operating Permit to the construction and operation of a new shipyard fabrication and repair facility. The notice also stated that the OAQ proposed to issue a New Source Construction and Federally Enforceable State Operating Permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

Comments and Responses

No comments were received during the public notice period.

Additional Changes

IDEM, OAQ has decided to make revisions to the permit:

- (a) All references to 40 CFR Part 63, Subpart II (National Emission Standards for Shipbuilding and Ship Repair (Surface Coating)) have been removed because Corn Island Shipyard does not meet the definition of a major source under the definition of 40 CFR Part 63, Subpart II.
- (b) A requirement for a Preventive Maintenance Plan (PMP) has been added as a condition for Sections D.1 and D.2.
- (c) Section E.1 has been deleted.
- (d) Section E.2 has been renumbered as Section E.1.
- (e) Attachment B (40 CFR Part 63, Subpart II) has been deleted. Attachment C (40 CFR 63, Subpart CCCCCC) has been re-lettered as Attachment B (40 CFR 63, Subpart CCCCCC).

IDEM, OAQ has decided to make additional revisions to the permit as described below, with deleted language as ~~strikeouts~~ and new language **bolded**.

- (a) Section A.2 has been updated as shown:

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

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

- (a) ***
- (b) One (1) outside paint area, identified as 00600, constructed in July 1990, using four (4) high volume low pressure (HVLP) spray guns, with no control device and exhausting outdoors. ~~This is an affected facility under 40 CFR 63, Subpart II.~~
- (b) Section D.1 has been updated as shown:

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (a) One (1) pneumatic blasting unit, identified as 00200, approved for construction in 2009, using black beauty slag as blast media, using a three (3) sided filter fabric barrier to contain blasting residue, exhausting outdoors.

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

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

Compliance Determination Requirements

D.1.34 Particulate Control

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

D.1.45 Record Keeping Requirements

D.1.56 Reporting Requirements

- (c) Section D.2 has been updated as shown:

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (b) One (1) outside paint area, identified as 00600, approved for construction in 2009, using four (4) high volume low pressure (HVLP) spray guns, using no controls, exhausting outdoors. ~~This is an affected facility under 40 CFR 63, Subpart II.~~

(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 2-8-4(1)]

D.2.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

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

Compliance Determination Requirements

D.2.4-5 Volatile Organic Compounds (VOC) [326 IAC 8-1-2] [326 IAC 8-1-4]

D.2.5-6 Volatile Organic Compounds (VOC) [326 IAC 8-1-2]

Compliance Monitoring Requirements

D.2.-6-7 Particulate

D.2.-7-8 Operator Training Requirements

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

D.2.-8-9 Record Keeping Requirements

D.2.-9-10 Reporting Requirements

(d) Section E.1 is deleted:

SECTION E.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(b) One (1) outdoor paint area, identified as 00600, approved for construction in 2009, using four (4) high volume low pressure (HVLP) spray guns. This is an affected facility under 40 CFR 63, Subpart II.

(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)]

E.1.1 General Provisions Relating to NESHAP II [326 IAC 20-1] [40 CFR Part 63, Subpart A]

(a) Pursuant to 40 CFR 63.780, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A—General Provisions, which are incorporated by reference as 326 IAC 20-1-1, as specified in Table 1 of 40 CFR Part 63, Subpart II.

- (b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports 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

~~E.1.2 Shipbuilding and Ship Repair (Surface Coating) NESHAP [40 CFR Part 63, Subpart II]~~

The Permittee which engages in shipbuilding and ship repair operations that is a major source, shall comply with the following provisions of 40 CFR 63, Subpart II (included as Attachment B of this permit), with a compliance date of one year after issuance of this permit:

- (a) 40 CFR 63.780
- (b) 40 CFR 63.781(a)
- (c) 40 CFR 63.782
- (d) 40 CFR 63.783
- (e) 40 CFR 63.784
- (f) 40 CFR 63.785
- (g) 40 CFR 63.786
- (h) 40 CFR 63.787
- (i) 40 CFR 63.788
- (j) 40 CFR 63.789

- (e) Section E.2 has been updated to reflect renumbering of section:

SECTION E.21 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (g) Gasoline fuel transfer dispensing operation handling less than 1,300 gallons per day, identified as T-1, with a capacity of 550 gallons. [326 IAC 2-7-1(21)(g)(ii)]. This is an affected facility under 40 CFR 63, Subpart CCCCCC.

(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)]

~~E.21.1 General Provisions Relating to NESHAP CCCCCC [326 IAC 20-1-1] [40 CFR Part 63, Subpart A]~~

Pursuant to 40 CFR 63.780, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1-1, as specified in Table 3 of 40 CFR Part 63, Subpart CCCCCC.

~~E.-21.2 Source Category: Gasoline Dispensing Facilities NESHAP [40 CFR Part 63, Subpart CCCCCC]~~

The Permittee is an area source with gasoline storage tanks at a gasoline dispensing facility, shall comply with the following provisions of 40 CFR 63, Subpart CCCCCC (included as Attachment C of this permit), with a compliance date of January 10, 2011:

- (e) Attachment B, 40 CFR 63, Subpart II, has been deleted.
- (f) Attachment C, 40 CFR 63, Subpart CCCCCC, has been re-lettered as Attachment B.
- (g) The Table of Contents has been updated to reflect the above changes.

IDEM Contact

- (a) Questions regarding this proposed FESOP can be directed to Bruce Farrar 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) 234-5401 or toll free at 1-800-451-6027 extension 4-5401.
- (b) A copy of the permit 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

Indiana Department of Environmental Management Office of Air Quality

Technical Support Document (TSD) for a New Source Construction and New Source Review and Federally Enforceable State Operating Permit (FESOP)

Source Description and Location

Source Name: Corn Island Shipyard
Source Location: 9447 E. SR 66, Grandview, IN 47615
County: Spencer (Hammond Township)
SIC Code: 3731
Operation Permit No.: F 147-27989-00047
Permit Reviewer: Bruce Farrar

On May 27, 2009, the Office of Air Quality (OAQ) received an application from Corn Island Shipyard related to the construction and operation of a new shipyard fabrication and repair facility.

Existing Approvals

There have been no previous approvals issued to this source.

County Attainment Status

The source is located in Spencer County.

Pollutant	Designation
SO ₂	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O ₃	Unclassifiable or attainment effective June 15, 2004, for the 8-hour ozone standard. ¹
PM ₁₀	Unclassifiable effective November 15, 1990.
NO ₂	Cannot be classified or better than national standards.
Pb	Not designated.

¹Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005.

Basic nonattainment designation effective federally April 5, 2005, for the Ohio Twp for PM_{2.5}. The remainder of Spencer County is unclassifiable or attainment effective 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. Spencer 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}

Spencer County (except for Ohio Township) has been classified as attainment for PM_{2.5}. On May 8, 2008 U.S. EPA promulgated the requirements for Prevention of Significant Deterioration (PSD) for PM_{2.5} emissions, and the effective date of these rules was July 15th, 2008. Indiana has

three years from the publication of these rules to revise its PSD rules, 326 IAC 2-2, to include those requirements. The May 8, 2008 rule revisions require IDEM to regulate PM10 emissions as a surrogate for PM2.5 emissions until 326 IAC 2-2 is revised.

- (c) **Other Criteria Pollutants**
Spencer County has been classified as attainment or unclassifiable in Indiana for all 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.

Background and Description of New Source Construction

The Office of Air Quality (OAQ) has reviewed an application, submitted by Corn Island Shipyard on May 27, 2009, relating to construction and operation of a river and ocean going barges, dump scows dry docks repair and construction.

Unpermitted Emission Units and Pollution Control Equipment

The source consists of the following unpermitted emission units:

- (a) One (1) pneumatic blasting unit, identified as 00200, constructed in July 1990, using black beauty slag as blast media, using a filter fabric barrier to contain blasting residue, and exhausting outdoors.
- (b) One (1) outdoor paint area, identified as 00600, constructed in July 1990, using four (4) high volume low pressure (HVLP) spray guns, with no control device, and exhausting outdoors. This is an affected facility under 40 CFR 63, Subpart II.
- (c) Insignificant activities consisting of the following:
- (1) The following internal combustion engines with compression ignition:
- (A) Two (2) Manitowoc Lift Cranes rated at 610 horsepower each (unit number 2200 and 2205).
- (B) Equipment rated at less than 600 horsepower:
- (i) OVH Crane Generator rated at 225 horsepower (unit number 1050).
- (ii) 110 Ton Crane - Truck rated at 275 horsepower (unit number 2010).
- (iii) 110 Ton Crane - Lift rated at 275 horsepower (unit number 2015).
- (iv) 61 B 125 Ton Crawler Crane rated at 300 horsepower (unit number 2025).
- (v) Gantry #1 and #2 generators rated at 425 horsepower each (unit number 2220 and 2240).
- (vi) American Lift Crane rated at 275 horsepower (unit number 2400).

- (vii) Petibone Lift Crane rated at 105 horsepower (unit number 2500).
- (2) Three (3) electric cranes with electric powered generated by diesel engines for a combined maximum of 1075 horsepower.
- (3) Portable grinding operations, identified as 00500, constructed in July 1990, capable of removing 1.7 lbs of mild steel per 4.5 inch wheel and 4.2 lbs of mild steel per seven inch wheel, with no control device and exhausting internally.
- (4) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]
- (5) Flame cutting operation, identified as 00300, constructed in July 1990, and consisting of:
 - (A) One (1) Plasma Arc Flame Cutting, constructed in July 1990, with a maximum capacity of 78.97 inches per minute of 0.5 inch thick plate steel, with no control device, and exhausting to stack 00301.
 - (B) One (1) HPG/Oxygen Flame Cutting, constructed in July 1990, with a maximum capacity of twelve (12) inches per minute of 0.5 inch thick plate steel, with no control device, and exhausting indoors.
- (6) Welding operation, identified as 00400, constructed in July 1990, and consisting of:
 - (A) Forty-five (45) SMAW stations, with a maximum consumption of 3.95 pounds of electrode per hour, with no control device, and exhausting indoors and outdoors.
 - (B) Ninety-five (95) FCAW stations, with a maximum consumption of 38.28 pounds of electrode per hour, with no control device, and exhausting indoors and outdoors.
 - (C) Two (2) SAW stations, with a maximum consumption of 3.09 pounds of electrode per hour, with no control device, and exhausting indoors and outdoors.
- (7) Gasoline fuel transfer dispensing operation handling less than 1,300 gallons per day, identified as T-1, with a capacity of 550 gallons. [326 IAC 2-7-1(21)(g)(ii)] This is an affected facility under 40 CFR 63, Subpart CCCCCC.
- (8) Diesel #2 fuel transfer dispensing operation having a storage tank capacity of 2,000 gallons handling less than 1,300 gallons per day, identified as T-5, and dispensing 10,500 gallons a day or less. [326 IAC 2-7-1(21)(g)(ii)]
- (9) Storage tanks with a capacity less than or equal to 1,000 gallons or less and annual throughput less than 12,000 gallons, consisting of:
 - (A) Anti-freeze storage tank, identified as T-2, with a capacity of 300 gallons.
 - (B) Hydraulic oil storage tank, identified as T-3, with a capacity of 300 gallons.
 - (C) Motor oil storage tank, identified as T-4, with a capacity of 300 gallons.
 - (D) Used oil storage tank, identified as T-6
 - (E) Kerosene storage tank, identified as T-6, with a capacity of 300 gallons.
 - (F) Kerosene storage tank, identified as T-7, with a capacity of 300 gallons.

- (10) One (1) slow RPM metal cutoff saw using oil mist to control for particulate and using less than 25 gallons of oil per year.

Enforcement Issues

IDEM is aware that equipment has been constructed and operated prior to receipt of the proper permit. IDEM is reviewing this matter and will take the appropriate action. This proposed approval is intended to satisfy the requirements of the construction permit rules.

Emission Calculations

See Appendix A of this TSD for detailed emission calculations.

Permit Level Determination – FESOP

The following table reflects the unlimited potential to emit (PTE) of the entire source before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Pollutant	Potential To Emit (tons/year)
PM	188.74
PM10 ⁽¹⁾	95.16
PM2.5	95.16
SO ₂	128.77
NO _x	441.22
VOC	88.72
CO	29.39

- (1) 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".

HAPs	Potential To Emit (tons/year)
Toluene	9.63
Xylene	9.42
Benzene	1.6
MIBK	3.44
MEK	1.16
Methanol	0.17
Naphthlene	0.08
Epichlorohydrin	10.54
Magnesium	0.75
Formaldehyde	0.08
TOTAL HAPs	37.12

- (a) The potential to emit (PTE) (as defined in 326 IAC 2-7-1(29)) of NO_x and SO₂ is greater than one hundred (100) tons per year each. The PTE of all other regulated criteria pollutants are less than one hundred (100) tons per year. The source would have been subject to the provisions of 326 IAC 2-7. However, the source will be issued a New Source Construction Permit (326 IAC 2-5.1-3) and a Federally Enforceable State Operating Permit (FESOP) (326 IAC 2-8), because the source will limit emissions to less than the Title V major source threshold levels.

- (b) The potential to emit (PTE) (as defined in 326 IAC 2-7-1(29)) of any single HAP is greater than ten (10) tons per year and the PTE of a combination of HAPs is greater than twenty-five (25) tons per year. Therefore, the source would have been subject to the provisions of 326 IAC 2-7. However, the source will be issued a New Source Construction Permit (326 IAC 2-5.1-3) and a FESOP (326 IAC 2-8), because the source will limit emissions of HAPs to less than the Title V major source threshold levels.

PTE of the Entire Source After Issuance of the FESOP

The table below summarizes the potential to emit of the entire source after issuance of this FESOP, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of this FESOP, 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 FESOP (tons/year)								
	PM	PM10	PM2.5	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP
Pneumatic Blasting CIS-002	120.45	7.8	0.78	0	0	0	0	0	0
Cutting/CIS-003	1.59	1.59	1.59	0	0	0	0	3.02E-06	negl.
Welding/CIS-004	1.33	1.33	1.33	0	0	0	0	0.43	0.41
Grinding/CIS-005	5.62	5.62	5.62	0	0	0	0	0	0
Surface Coating/CIS-006	33.81	33.81	33.81	0	0	59.06	0	24.00	6.01
Fuel Use/CIS-007	25.95	1.45	1.45	4.22	22.53	29.66	4.85	3.33E-01	negl.
Total PTE of Entire Source	188.75	51.60	44.58	4.22	22.53	88.72	4.85	<25	<10
Title V Major Source Thresholds	NA	100	100	100	100	100	100	25	10
PSD Major Source Thresholds	250	250	250	250	250	250	250	NA	NA
Emission Offset/ Nonattainment NSR Major Source Thresholds	NA	NA	NA	NA	NA	NA	NA	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".

Assume PM2.5 = PM 10

Source requested to limit abrasive blasting to 600 tons of Black Beauty Slag per year.

Source requested to limit fuel use to: 75,000 gallons of Diesel Fuel and 20,000 gallons of Kerosene per year.

- (a) **FESOP Status**
 This new source is not a Title V major stationary source, because the potential to emit criteria pollutants from the entire source will be limited to less than the Title V major source threshold levels. In addition, this new source is not a major source of HAPs, as defined in 40 CFR 63.41, because the potential to emit HAPs is limited to less than ten (10) tons per year for a single HAP

and twenty-five (25) tons per year of total HAPs. Therefore, this source is an area source under Section 112 of the Clean Air Act and is subject to the provisions of 326 IAC 2-8 (FESOP).

In order to comply with the requirements of 326 IAC 2-8-4 (FESOP), the source shall comply with the following:

- (1) The total black beauty slag for the pneumatic blasting unit, identified as 00200, shall not exceed 600 tons of black beauty slag per twelve (12) consecutive month period with compliance determined at the end of each month.
- (2) The PM10 and PM2.5 emissions from the pneumatic blasting unit, identified as 00200, shall not exceed the emission limits listed in the table below:

Particulate	Emission Limits (lbs per 1,000 lbs abrasive)
PM ¹⁰	13
PM ^{2.5}	1.3

- (3) The total input of any single HAP to the outdoor paint area, shall not exceed 9.0 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (4) The total input of any combination of HAPs to the outdoor paint area, shall not exceed 24.0 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (5) No. 2 diesel fuel usage in the two (2) Manitowoc Lift Cranes shall not exceed 15,000 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (6) No. 2 diesel fuel usage in the OVH Crane Generator, 110 ton Crane - Truck, 110 ton Crane - Lift, 61 B 125 ton Crawler Crane, Gantry #1 and #2 generators, American Lift Crane, and Petibone Lift Crane shall not exceed 60,000 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (7) Kerosene usage in the forty (40) space heaters shall not exceed 20,000 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month

Compliance with these limits, combined with the potential to emit from all other emission units at this source, shall limit the source-wide total potential to emit of PM10, PM2.5, NOx and SOx to less than 100 tons per 12 consecutive month period, each single HAP to less than ten (10) tons per 12 consecutive month period, and total HAPs to less than twenty-five (25) tons per 12 consecutive month period and shall render 326 IAC 2-7 (Part 70 Permits), 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)), and 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP) not applicable.

(b) PSD Minor Source

This new source is not a major stationary source, under PSD (326 IAC 2-2), because the potential the potential to emit all attainment regulated pollutants are less than 250 tons per year, and this source is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1). Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

Federal Rule Applicability Determination

New Source Performance Standards (NSPS)

- (a) The requirements of the New Source Performance Standard for Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, 40 CFR 60, Subpart IIII (326 IAC 12), are not included in the permit, since the generators were installed prior to July 2007.
- (b) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the permit.

National Emission Standards for Hazardous Air Pollutants (NESHAP)

- (c) This source is subject to the National Emission Standards for Hazardous Air Pollutants for Shipbuilding and Ship Repair (40 CFR 63, Subpart II), which is incorporated by reference as 326 IAC 20-26, because the source has surface coating operations with a minimum 1,000 liters (L) (264 gallons (gal)) annual marine coating usage.

The existing affected source associated with ship building and repair is subject to the following sections of 40 CFR 63, Subpart II. Non-applicable sections of the NESHAP are not included in the permit.

- (1) 40 CFR 63.780
- (2) 40 CFR 63.781(a)
- (3) 40 CFR 63.782
- (4) 40 CFR 63.783
- (5) 40 CFR 63.784 (c)
- (6) 40 CFR 63.785
- (7) 40 CFR 63.786
- (8) 40 CFR 63.787
- (9) 40 CFR 63.788
- (10) 40 CFR 63.789

The provisions of 40 CFR 63, Subpart A – General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the facility described in this section except when otherwise specified in 40 CFR Part 63 Subpart II.

- (d) This source is subject to the National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities (40 CFR 63, Subpart CCCCCC), because the source is an area source with gasoline storage tanks at a gasoline dispensing facility.

The existing affected source associated with gasoline storage tanks at a gasoline dispensing facility is subject to the following sections of 40 CFR 63, Subpart CCCCCC. Non-applicable sections of the NESHAP are not included in the permit.

- (1) 40 CFR 63.11110
- (2) 40 CFR 63.11111 (a) and (b)
- (3) 40 CFR 63.11112 (a) and (d)
- (4) 40 CFR 63.11113 (b)
- (5) 40 CFR 63.11116
- (6) 40 CFR 63.11130
- (7) 40 CFR 63.11131
- (8) 40 CFR 63.11132

The provisions of 40 CFR 63, Subpart A – General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the facility described in this section except when otherwise specified in 40 CFR Part 63 Subpart CCCCCC.

- (e) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Surface Coating of Miscellaneous Metal Parts and Products, 40 CFR 63.5880, Subpart MMMM (326 IAC 20-80), are not included in the permit, because this subpart does not apply to surface coating of metal components of ships that meet the applicability criteria for shipbuilding and ship repair of subpart II (40 CFR 63.3881(c)(12)).
- (f) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Boat Manufacturing, 40 CFR 63.5680, Subpart VVVV (326 IAC 20-48), are not included in the permit, since the source does not build fiberglass boats or aluminum recreational boats.
- (g) There are no other National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included in the permit.

Compliance Assurance Monitoring (CAM)

- (h) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is not included in the permit, because the potential to emit of the source is limited to less than the Title V major source thresholds and the source is not required to obtain a Part 70 or Part 71 permit.

State Rule Applicability Determination

The following state rules are applicable to the source:

- (a) 326 IAC 2-8-4 (FESOP)
FESOP applicability is discussed under the PTE of the Entire Source After Issuance of the FESOP section above.
- (b) 326 IAC 2-2 (Prevention of Significant Deterioration (PSD))
PSD applicability is discussed under the PTE of the Entire Source After Issuance of the FESOP section above.
- (c) 326 IAC 2-3 (Emission Offset)
Emission Offset applicability is discussed under the PTE of the Entire Source After Issuance of the FESOP section above.
- (d) 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))
This source is not subject to the requirements of 326 IAC 2-4.1, since the unlimited potential to emit of HAPs from the new units is less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs.
- (e) 326 IAC 2-6 (Emission Reporting)
Pursuant to 326 IAC 2-6-1, this source is not subject to this rule, because it is not required to have an operating permit under 326 IAC 2-7 (Part 70), it is not located in Lake, Porter, or LaPorte County, and it does not emit lead into the ambient air at levels equal to or greater than 5 tons per year. Therefore, 326 IAC 2-6 does not apply.
- (f) 326 IAC 5-1 (Opacity Limitations)
Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (1) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
 - (2) 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.
- (g) 326 IAC 6-4 (Fugitive Dust Emissions Limitations)
Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions Limitations), the source 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.
- (h) 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)
The source is subject to the requirements of 326 IAC 6-5, because the fugitive dust on unpaved roads has potential fugitive particulate emissions greater than 25 tons per year. Pursuant to 326 IAC 6-5, fugitive particulate matter emissions shall be controlled according to the Fugitive Dust Control Plan, submitted on May 27, 2009, which is included as Attachment A to the permit.
- (i) 326 IAC 8-12 (Shipbuilding or Ship Repair Operations in Clark/Floyd/Lake/Porter Counties)
The source is not subject to 326 IAC 8-12 because the source is located in Spencer County.

Abrasive Blasting

- (j) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the pneumatic abrasive blasting operation shall not exceed 7.58 pounds per hour when operating at a process weight rate of 5000 pounds per hour.

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

The controls shall be in operation at all times the abrasive blasting operation is in operation, in order to comply with this limit.

Plasma Arc and HPG/Oxygen Cutting Operations

- (k) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-1(b)(14), the cutting operations are exempt from the requirements of 326 IAC 6-3-2 because they each have potential particulate emissions less than five hundred fifty one thousandths (0.551) pound per hour.

Welding Operations

- (l) (326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-1(b)(14), the welding operations are exempt from the requirements of 326 IAC 6-3-2 because they each have potential particulate emissions less than five hundred fifty one thousandths (0.551) pound per hour.

Surface Coating Operations

- (m) 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations)
The surface coating operations at this source, identified as 00600, perform the coating of metal

parts under the SIC classification code 3731, which makes this source subject to this rule under 326 IAC 8-2-9(a)(5).

Pursuant to 326 IAC 8-2-9, the owner or operator shall not allow the discharge into the atmosphere volatile organic compound (VOC) from application equipment of the outdoor paint area in excess of 3.5 pounds of VOC per gallon of coating less water delivered to a coating applicator that applies extreme performance coatings.

Pursuant to 326 IAC 8-2-9(f), all solvents sprayed from application equipment of the outdoor paint area during cleanup or color changes shall be directed into containers. Said containers shall be closed as soon as the solvent spraying is complete. In addition, all waste solvent shall be disposed of in such a manner that evaporation is minimized.

Compliance with the VOC content limit in condition D.2.1 shall be determined pursuant to 326 IAC 8-1-2(a)(7), using a volume weighted average of coatings on a daily basis. This volume weighted average shall be determined by the following equation:

$$A = [\Sigma (C \times U) / \Sigma U]$$

Where: A is the volume weighted average in pounds VOC per gallon less water as applied;

C is the VOC content of the coating in pounds VOC per gallon less water as applied;

and U is the usage rate of the coating in gallons per day.

- (n) There are no other 326 IAC 8 Rules that are applicable to the outdoor paint area.
- (o) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-2(d), particulate from the outside paint area, identified as 00600, shall be controlled by the following work practice standards:
 - (1) Surface coating operations are to be completed in such a manner that all particulate matter (drift or over spray) remains on the source's property.
 - (2) Surface coating with high volume low pressure (HVL) spray guns will be limited to times when the wind velocity is less than 10 mph.
 - (3) Surface coating of flat horizontal surfaces of vessels will be accomplished by rolling or brushing when practical.
 - (4) Coatings of inter compartments will be completed within enclosed spaces.
 - (5) Surface coating of small parts/fixtures to be attached to vessels will be coated in open areas that are shrouded if needed and is practical.
- (p) 326 IAC 20 (Hazardous Air Pollutants)
See Federal Rule Applicability Section of this TSD.

Fuel Use Operations

- (q) 326 IAC 8-4-6 (Gasoline Dispensing Facilities)
The source is not subject to the requirements of 326 IAC 8-4-6, because the source's gasoline storage tank is less than 575 gallons.

- (r) 326 IAC 10-5-1 (Nitrogen Oxide Program)
This source is not subject to the requirements of 326 IAC 10-5-1, since the source does not operate any large NOx SIP Call engines.

Grinding Operations

- (s) 326 IAC 6-3-2, 326 IAC 2-7-1 (40)(F)(vi) (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 7-2-1(a)(21)(B), the grinding operations are a trivial activity. Therefore, pursuant to 326 IAC 6-3-1(b)(13) the grinding operations are exempt from the requirement of 326-IAC 6-3-2.

Compliance Determination, Monitoring and Testing Requirements

There are no compliance determination or testing requirements.

Conclusion and Recommendation

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 May 27, 2009.

The construction and operation of this source shall be subject to the conditions of the attached proposed New Source Construction and New Source Review and FESOP No. 147-27989-00047. The staff recommends to the Commissioner that this New Source Construction and New Source Review and FESOP be approved.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Bruce Farrar 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) 234-5401 or toll free at 1-800-451-6027 extension 4-5401.
- (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: Emission Calculations

Company Name: Corn Island Shipyard
 Address City IN Zip: 9447 E. SR 66, Grandview, IN 47615
 Permit Number: 147-27989-00047
 Pit ID: 147-00047
 Reviewer: Bruce Farrar
 Date: May 27, 2009

Uncontrolled Potential to Emit (tons/year)							
	Abrasive Blasting 00200	Cutting 00300	Welding 00400	Grinding 00500	Surface Coating 00600	Fuel Consumption	Totals
PM	120.45	1.59	1.33	5.62	33.81	25.95	188.75
PM10	28.47	1.59	1.33	5.62	33.81	24.35	95.17
PM2.5	28.47	1.59	1.33	5.62	33.81	24.35	95.17
SO2	0	0	0	0	0	128.77	128.77
NOX		0	0	0	0	441.22	441.22
VOC	0	0	0	0	59.06	29.66	88.72
CO	0				0	29.39	29.39
total HAPs	0	5.29E-06	0.75	0	36.04	3.33E-01	37.12
Worst Case HAP HAP name		3.18E-06 Chromium	0.73 Magnesium		10.54 Epichlorhydrin		

Limited Potential to Emit (tons/year)							
	Abrasive Blasting 00200	Cutting 00300	Welding 00400	Grinding 00500	Surface Coating 00600	Fuel Consumption	Totals
PM	33.00	1.59	1.33	5.62	33.81	1.45	76.80
PM10	7.80	1.59	1.33	5.62	33.81	1.45	51.60
PM2.5	0.78	1.59	1.33	5.62	33.81	1.45	44.58
SO2						4.22	4.22
NOX						22.53	22.53
VOC					59.06	29.66	88.72
CO						4.85	4.85
total HAPs				<25			<25
Worst Case HAP HAP name		3.18E-06 Chromium	0.75 Magnesium		<10 Epichlorhydrin		

**Appendix A: Emission Calculations
Fugitive Dust Emissions - Unpaved Roads**

Company Name: Corn Island Shipyard
 Address City IN Zip: 9447 E. SR 66, Grandview, IN 47615
 Permit Number: 147-27989-00047
 Pit ID: 147-00047
 Reviewer: Bruce Farrar
 Date: May 27, 2009

Unpaved Roads at Industrial Site

The following calculations determine the amount of emissions created by unpaved roads, based on 8,760 hours of use and AP-42, Ch 13.2.2 (12/2003).

Vehicle Information (provided by source)

Type	Maximum number of vehicles	Number of one-way trips per day per vehicle	Maximum trips per day (trip/day)	Maximum Weight Loaded (tons/trip)	Total Weight driven per day (ton/day)	Maximum one way distance (feet/trip)	Maximum one way distance (mi/trip)	Maximum one-way miles (miles/day)	Maximum one-way miles (miles/yr)
Tractor Trailer (plant steel delivery) (one-way trip)	1.3	0.0	0.0	0.0	0.0	0.0	0.000	0.0	0.0
Tractor Trailer (structural steel delivery) (one-way trip)	0.4	2.0	0.0	0.0	0.0	0.0	0.000	0.0	0.0
Straight Truck (10 wheels) (pipes and hardware) (one-way trip)	0.2	0.0	0.0	0.0	0.0	1300	0.246	0.0	0.0
Straight Truck (10 wheels) (misc. supplies) (one-way trip)	0.8	0.0	0.0	20.0	0.0	0.0	0.000	0.0	0.0
Service Truck (6 wheel)	3.0	0.0	0.0	12.0	0.0	216	0.041	0.0	0.0
Automobiles (employees & visitors)	250.0	2.2	550.0	2.0	1100.0	1000	0.189	104.2	38020.8
Forklifts	3.0	14.0	42.0	15.0	630.0	1500	0.284	11.9	4355.1
Components Truck	3.0	0.1	0.3	150.0	45.0	63	0.012	0.0	1.3
Total			592.3		1775.0			116.1	42377.3

Average Vehicle Weight Per Trip = 3.0 tons/trip
 Average Miles Per Trip = 0.20 miles/trip

Unmitigated Emission Factor, $E_f = k \cdot [(s/12)^a] \cdot [(W/3)^b]$ (Equation 1a from AP-42 13.2.2) 59.83
47.23

	PM	PM10	
where k =	4.9	1.5	lb/mi = particle size multiplier (AP-42 Table 13.2.2-2 for Industrial Roads)
s =	4.8	4.8	% = mean % silt content of unpaved roads (AP-42 Table 13.2.2-3 Sand/Gravel Processing Pla
a =	0.7	0.9	= constant (AP-42 Table 13.2.2-2)
W =	3.0	3.0	tons = average vehicle weight (provided by source)
b =	0.45	0.45	= constant (AP-42 Table 13.2.2-2)

Taking natural mitigation due to precipitation into consideration, Mitigated Emission Factor, $E_{ext} = E \cdot [(365 - P)/365]$

Mitigated Emission Factor, $E_{ext} = E \cdot [(365 - P)/365]$
 where P = 125 days of rain greater than or equal to 0.01 inches (see Fig. 13.2.2-1)

	PM	PM10	
Unmitigated Emission Factor, $E_f =$	2.58	0.66	lb/mile
Mitigated Emission Factor, $E_{ext} =$	1.70	0.43	lb/mile
Dust Control Efficiency =	50%	50%	(pursuant to control measures outlined in fugitive dust control plan)

Process	Unmitigated PTE of PM (tons/yr)	Unmitigated PTE of PM10 (tons/yr)	Mitigated PTE of PM (tons/yr)	Mitigated PTE of PM10 (tons/yr)	Controlled PTE of PM (tons/yr)	Controlled PTE of PM10 (tons/yr)
Tractor trailer (plant steel delivery)	0.00	0.00	0.00	0.00	0.00	0.00
Tractor Trailer (structural steel)	0.00	0.00	0.00	0.00	0.00	0.00
Straight truck (10 wheels) (pipes)	0.00	0.00	0.00	0.00	0.00	0.00
Straight Truck (10 wheels) (misc.)	0.00	0.00	0.00	0.00	0.00	0.00
Service Truck (6 wheel)	0.00	0.00	0.00	0.00	0.00	0.00
Automobiles (employees & visitors)	49.03	12.49	32.24	8.22	16.12	4.11
Forklifts	5.62	1.43	3.69	0.94	1.85	0.47
Components Truck	0.00	0.00	0.00	0.00	0.00	0.00
Total	54.64	13.93	35.93	9.16	17.96	4.58

Methodology
 Total Weight driven per day (ton/day) = [Maximum Weight Loaded (tons/trip)] * [Maximum trips per day (trip/day)]
 Maximum one-way distance (mi/trip) = [Maximum one-way distance (feet/trip)] / [5280 ft/mile]
 Maximum one-way miles (miles/day) = [Maximum trips per year (trip/day)] * [Maximum one-way distance (mi/trip)]
 Average Vehicle Weight Per Trip (ton/trip) = SUM[Total Weight driven per day (ton/day)] / SUM[Maximum trips per day (trip/day)]
 Average Miles Per Trip (miles/trip) = SUM[Maximum one-way miles (miles/day)] / SUM[Maximum trips per year (trip/day)]
 Unmitigated PTE (tons/yr) = (Maximum one-way miles (miles/yr)) * (Unmitigated Emission Factor (lb/mile)) * (ton/2000 lbs)
 Mitigated PTE (tons/yr) = (Maximum one-way miles (miles/yr)) * (Mitigated Emission Factor (lb/mile)) * (ton/2000 lbs)
 Controlled PTE (tons/yr) = (Mitigated PTE (tons/yr)) * (1 - Dust Control Efficiency)

Abbreviations
 PM = Particulate Matter
 PM10 = Particulate Matter (<10 um)
 PTE = Potential to Emit

**Appendix A: Emission Calculations
Abrasive Blasting - Unlimited**

Company Name: Corn Island Shipyard
 Address City IN Zip: 9447 E. SR 66, Grandview, IN 47615
 Permit Number: 147-27989-00047
 Pit ID: 147-00047
 Reviewer: Bruce Farrar
 Date: May 27, 2009

Table 1 - Emission Factors for Abrasives

Abrasive	Emission Factor (EF)	
	lb PM / lb abrasive	lb PM10 / lb PM
Sand	0.041	0.70
Grit	0.010	0.70
Steel Shot	0.004	0.86
Black Beauty Slag	0.055	0.01

Table 2 - Density of Abrasives (lb/ft3)

Abrasive	Density (lb/ft3)
Al oxides	160
Sand	99
Black Beauty Slag	85

Table 3 - Sand Flow Rate (FR1) Through Nozzle (lb/hr)

Flow rate (FR1) of sand through a blasting nozzle as a function of nozzle pressure and internal diameter (ID1)

Nozzle Type (diameter)	Internal diameter, in	Nozzle Pressure (psig)							
		30	40	50	60	70	80	90	100
No. 2 (1/8 inch)	0.125	28	35	42	49	55	63	70	77
No. 3 (3/16 inch)	0.1875	65	80	94	107	122	135	149	165
No. 4 (1/4 inch)	0.25	109	138	168	195	221	255	280	309
No. 5 (5/16 inch)	0.3125	205	247	292	354	377	420	462	507
No. 6 (3/8 inch)	0.375	285	355	417	477	540	600	657	720
No. 7 (7/16 inch)	0.4375	385	472	560	645	755	820	905	940
No. 8 (1/2 inch)	0.5	503	615	725	835	945	1050	1160	1265
No. 10 (5/8 inch)	0.625	820	990	1170	1336	1510	1680	1850	2030
No. 12 (3/4 inch)	0.75	1140	1420	1670	1915	2160	2400	2630	2880
No. 16 (1 inch)	1	2030	2460	2900	3340	3780	4200	4640	5060

CALCULATIONS

Potential to Emit Before Control													
FR = Flow rate of actual abrasive (lb/hr) =	500.0 lb/hr (per nozzle)												
w = fraction of time of wet blasting =	0 %												
N = number of nozzles =	1												
EF = PM emission factor for actual abrasive from Table 1 =	0.055 lb PM / lb abrasive												
PM10 emission factor ratio for actual abrasive from Table 1 =	0.01 lb PM10 / lb PM												
Potential to Emit (before control) =	<table border="1"> <tr> <td>PM</td> <td>PM10</td> <td></td> </tr> <tr> <td>27.500</td> <td>6.500</td> <td>lb/hr</td> </tr> <tr> <td>660.00</td> <td>156.00</td> <td>lb/day</td> </tr> <tr> <td>120.45</td> <td>28.47</td> <td>ton/yr</td> </tr> </table>	PM	PM10		27.500	6.500	lb/hr	660.00	156.00	lb/day	120.45	28.47	ton/yr
PM	PM10												
27.500	6.500	lb/hr											
660.00	156.00	lb/day											
120.45	28.47	ton/yr											

METHODOLOGY

Emission Factors from STAPPA/ALAPCO "Air Quality Permits", Vol. I, Section 3 "Abrasive Blasting" (1991 edition)

Flow rate of actual abrasive (FR) (lb/hr) provided by source

Potential to Emit (before control) = EF x FR x (1 - w/200) x N (where w should be entered in as a whole number (if w is 50%, enter 50))

Potential to Emit (tons/year) = [Potential to Emit (lbs/hour)] x [8760 hours/year] x [ton/2000 lbs]

**Appendix A: Emission Calculations
Abrasive Blasting - Limited**

Company Name: Corn Island Shipyard
Address City IN Zip: 9447 E. SR 66, Grandview, IN 47615
Permit Number: 147-27989-00047

Plt ID: 147-00047
Reviewer: Bruce Farrar
Date: May 27, 2009

Tons of Abrasive	Max. Wind Speed	Emission Factors* lb/1000 lbs			PM PTE (tons/yr)	PM 10 PTE (tons/yr)	PM 2.5 PTE (tons/yr)
		PM	PM10	PM2.5			
600	10	55	13	1.3	33.00	7.80	0.78

*Emission Factors are from AP-42 table 13.2.6-1
 Assume 10 mph wind speed (AP-42 table 13.2.6-1)

METHODOLOGY

PM emissions tons/year =(tons of abrasive *2000lb/ton)*(PM emission factor/1000 lbs of abrasive)*(1/2000 lbs per ton)
 PM10 emissions tons/year =(tons of abrasive *2000lb/ton)*(PM10 emission factor/1000 lbs of abrasive)*(1/2000 lbs per ton)

Appendix A: Emissions Calculations
Thermal Cutting - Unlimited

Company Name: Corn Island Shipyard
Address City IN Zip: 9447 E. SR 66, Grandview, IN 47615
Permit Number: 147-27989-00047

Plt ID: 147-00047
Reviewer: Bruce Farrar
Date: May 27, 2009

FLAME CUTTING	Number of Stations	Max. Metal Thickness Cut (in.)	Max. Metal Cutting Rate (in./minute)	EMISSION FACTORS (lb. pollutant/1,000 inches cut, 0.5 inches thick)*				EMISSIONS (lbs/hr)				HAPS (lbs/hr)
				PM = PM10	Mn	Ni	Cr	PM = PM10	Mn	Ni	Cr	
HPG/Oxygen		0.5	0.57	0.0028	8.40E-06	1.40E-06	5.60E-06	0.048	1.44E-07	2.39E-08	9.58E-08	2.63E-07
Plasma**		0.5	3.75	0.0028	8.40E-06	1.40E-06	5.60E-06	0.315	1.58E-07	1.58E-07	6.30E-07	9.45E-07
EMISSION TOTALS												
Potential Emissions lbs/hr								0.36	3.01E-07	4.31E-07	7.28E-07	1.21E-06
Potential Emissions lbs/day								8.71	7.23E-06	4.35E-06	1.74E-06	2.90E-05
Potential Emissions tons/year								1.59	1.32E-06	1.95E-07	3.18E-06	5.29E-06

METHODOLOGY

* Based on source calculation of an average of 0.5 inch steel plate thickness
 Plasma cutting emissions, lb/hr: (# of stations)(max. cutting rate, in./min.)(60 min./hr.)(emission factor, lb. pollutant/1,000 in. cut, 0.5 in thick)
 Cutting emissions, lb/hr: (# of stations)(max. metal thickness, in.)(max. cutting rate, in./min.)(60 min./hr.)(emission factor, lb. pollutant/1,000 in. cut, 1" th
 Welding emissions, lb/hr: (# of stations)(max. lbs of electrode used/hr/station)(emission factor, lb. pollutant/lb. of electrode used)
 Emissions, lbs/day = emissions, lbs/hr x 24 hrs/day
 Emissions, tons/yr = emissions, lb/hr x 8,760 hrs/year x 1 ton/2,000 lb

Appendix A: Emissions Calculations
Welding - Unlimited

Company Name: Corn Island Shipyard
Address City IN Zip: 9447 E. SR 66, Grandview, IN 47615
Permit Number: 147-27989-00047
Pit ID: 147-00047
Reviewer: Bruce Farrar
Date: May 27, 2009

PROCESS	Electrode used (lbs/year)	EMISSION FACTORS* 1.0 lb/1000lbs				EMISSIONS (tons/year)							Total HAPS (tons/year)		
		PM = PM10	Mn	Ni	Cr	Co	PM = PM10	Mn	Ni	Cr	Co				
WELDING SMAW Procedure	30905108	16.4	1.38				0.000288	2.42E-05							2.42E-05
	30905128	25.6	9.91	0.04	0.03		0.033896	1.304E-02	5.27E-05	3.95E-05					1.31E-02
	30905132	38.4	9.86	0.05	0.05	0.01	0.003370	8.767E-04	4.39E-06	4.39E-06	8.78E-07				8.85E-04
	30905144	18.4	10.3	0.02	0.06		0.041172	2.305E-02	4.48E-05	1.34E-04					2.32E-02
	30905148	9.2	6.29		0.01		0.056915	3.891E-02	0.00E+00	6.19E-05					3.90E-02
	30905156	17.1	0.3	0.51	0.17		0.000300	5.285E-06	8.95E-06	2.98E-06					1.72E-05
GMWA Procedure	30905164	16.9	7.83	0.13	2.12		1.48E-04	6.871E-05	1.14E-06	1.86E-05					8.85E-05
	30905220	3.2	2.45	2.26	5.28		0.000118	9.029E-05	8.33E-05	1.95E-04					3.68E-04
FCAW Procedures	30905254	5.2	3.18	0.01	0.01	0.01	0.000210	1.284E-04	4.04E-07	4.04E-07	4.04E-07				1.30E-04
	30905300	12.2	6.62	0.04	0.02	0.01	0.018735	1.017E-02	6.14E-05	3.07E-05	1.54E-05				1.03E-02
	30905308	57	7.04	1.02	9.69		5.00E-04	6.18E-05	8.95E-06	8.60E-06	0.00E+00				1.56E-04
	30905312	9.1					0.006								
	30905320	8.5	5.9	0.93	9.7		0.010	6.60E-03	1.04E-03	1.08E-02	0.00E+00				1.85E-02
	30905354	15.1	8.91	0.05	0.04		0.156	9.20E-02	5.16E-04	4.13E-04	0.00E+00				9.30E-02
SAW Procedure	30905355	12.2	6.62	0.04	0.02	0.01	0.999	0.542	0.003	1.64E-03	8.19E-04				5.48E-01
	30905410	0.05					3.87E-04								0.00E+00
Potential Emissions tons/year							1.33	0.7	5.10E-03	1.35E-02	8.35E-04				0.75

*Emission Factors are from AP-42 table 12.19-1 (PM) and 12.19-2 (HAPS) by electrode type

METHODOLOGY

Welding emissions tons/year = Annual Usage (lbs) * emission factor (lbs pollutant/1000 lbs electrode) * (1/2000lbs)

**Appendix A: Emissions Calculations
Grinding Operations**

Company Name: Corn Island Shipyard
Address City IN Zip: 9447 E. SR 66, Grandview, IN 47615
Permit Number: 147-27989-00047
Pit ID: 147-00047
Reviewer: Bruce Farrar
Date: May 27, 2009

Grinding wheels used: 2530 4 1/2" Wheels
500 7" Wheels

No. of 4 1/2" Wheels 2530 x 1.7 lbs/wheel = 4301 lbs

No. of 7" Wheels 500 x 4.2 lbs/wheel = 2100 lbs

TOTAL 6401 lbs/2000 3.20 tons

6401 lbs/yr x 1/(96 hrs/week x 52 wks/yr) = 1.282 lbs/hr

Potential metal removal by grinding = 1.282 lbs/hr x 8760 hr/yr x 1 ton/2000 lbs = 5.62 ton/yr

Emission Factor based on manufacturer of 1.7 lbs of mild steel per 4.5 inch wheel and 4.2 lbs mild steel per 7 inch wheel.
Worse case emissions would be if all metal removed by grinding was PM 10.

METHODOLOGY

Particulate Emissions = (grinding wheel emission factor) * (annual wheel usage) * (1/2000 lbs)

Appendix A: Emissions Calculations
 VOC and Particulate
 From Uncontrolled Surface Coating Operations

Company Name: Corn Island Shipyard
 Address City IN Zip: 9447 E. SR 86, Grandview, IN 47615
 Permit Number: 147-27989-00047
 Pit ID: 147-00047
 Reviewer: Bruce Ferrar
 Date: May 27, 2009

Material	Density (lb/gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Hourly Usage	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC pounds per hour	Potential VOC pounds per day	Potential VOC tons per year	Particulate Potential (ton/yr)	lb VOC/gal solids	Transfer Efficiency
Epoxy - Universal HVS															
Amercoat 240 Epoxy Resin	8.57	97.9%	0.0%	9.78%	0.0%	90.2%	1.00	1.36	1.36	2.17	52.15	9.52	4.38	1.50	95%
Cure	8.57	97.9%	0.0%	9.10%	0.0%	90.9%	1.00	0.74	0.74	0.30	7.09	1.29	0.65	0.81	95%
Amercoat 10 Thinner	8.57	100.0%	100.0%	100.00%	100.0%	0.0%	1.00	7.01	7.01	1.69	40.44	7.38	0.00		95%
Epoxy - Acrylic															
Amercoat 229 Epoxy Resin	8.57	97.9%	0.0%	29.21%	0.0%	70.7%	1.00	2.97	2.97	0.48	11.44	2.09	1.77	4.20	85%
Cure	8.57	97.9%	0.0%	55.89%	0.0%	44.1%	1.00	4.29	4.29	0.17	4.13	0.75	0.21	9.73	85%
Amercoat 65 Thinner	8.57	100.0%	100.0%	100.00%	100.0%	0.0%	1.00	7.26	7.26	0.22	5.24	0.96	0.00		85%
Epoxy - Multipurpose Finish															
Amercoat 235 Resin	8.57	97.9%	0.0%	20.41%	0.0%	79.5%	1.00	2.38	2.38	0.38	9.17	1.67	2.28	3.00	85%
Cure	8.57	97.9%	0.0%	12.00%	0.0%	88.0%	1.00	0.95	0.95	0.04	0.92	0.17	0.43	1.08	85%
Amercoat 65 Thinner	8.57	100.0%	100.0%	100.00%	100.0%	0.0%	1.00	7.26	7.26	0.22	5.24	0.96	0.00		85%
Alkyd - Top Coat															
Amercoat 6450	8.57	98.82%	0.0%	38.82%	0.0%	61.1%	1.00	3.44	3.44	0.69	16.55	3.02	1.81	5.45	85%
Amercoat 15 Thinner	8.57	100.0%	100.0%	100.00%	100.0%	0.0%	1.00	6.43	6.43	0.13	3.09	0.56	0.00		85%
Acrylic - Top Coat															
PSX 1001	8.57	98.69%	0.0%	30.69%	0.0%	69.3%	1.00	3.00	3.00	1.20	28.80	5.26	11.87	4.32	85%
Amercoat 8 Thinner	8.57	100.0%	100.0%	100.00%	100.0%	0.0%	1.00	7.34	7.34	0.29	7.06	1.29	0.00		85%
Primer - Inorganic Zinc															
Dimescote 9	8.57	90.64%	0.0%	60.64%	0.0%	39.3%	1.00	5.16	5.16	2.07	49.62	9.06	0.29	13.11	95%
Primer - Relinf. Inorganic Zinc															
Dimescote 302H Resin	8.57	97.98%	0.0%	12.89%	0.0%	87.1%	1.00	2.62	2.62	0.95	22.69	4.14	9.80	3.01	85%
Cure	8.57	97.98%	0.0%	34.89%	0.0%	65.1%	1.00	2.61	2.61	0.10	2.51	0.46	0.30	3.99	85%
Amercoat 10 Thinner	8.57	100.0%	100.0%	100.00%	100.0%	0.0%	1.00	7.01	7.01	0.28	6.74	1.23	0.00		95%
Cleaner/Thinner															
Amercoat 12	8.57	100.0%	100.0%	100.00%	100.0%	0.0%	1.00	6.93	6.93	1.39	33.32	6.08	0.00		85%
Amercoat 85 Thinner	8.57	100.0%	100.0%	100.00%	100.0%	0.0%	1.00	7.26	7.26	0.73	17.45	3.18	0.00		85%

Add worst case coating to all solvents

13.48 59.06 323.63 33.81

State Potential Emissions

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1 - Volume % water)
 Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)
 Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)
 Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)
 Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hrs/yr) * (1 ton/2000 lbs)
 Particulate Potential Tons per Year = (units/hr) * (lbs/gal) * (1 - Weight % Volatiles) * (1 - Transfer efficiency) * (8760 hrs/yr) * (1 ton/2000 lbs)
 Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solids)
 Total = Worst Coating + Sum of all solvents used

Appendix A: Emission Calculations
Uncontrolled HAP Emission Calculations

Company Name: Corn Island Shipyard
Address City IN Zip: 9447 E. SR 66, Grandview, IN 47615
Permit Number: 147-27989-00047
Pit ID: 147-00047

Reviewer: Bruce Farrar
Date: May 27, 2009

Material	Density (Lb/Gal)	Gallons of Material total	Weight % Toluene	Weight % Xylene	Weight % Benzene	Weight % MEK	Weight % Methanol	Weight % Naphthalene	Weight % Epichlorohydrin	Toluene Emissions (ton/yr)	Xylene Emissions (ton/yr)	Benzene Emissions (ton/yr)	MIBK Emissions (ton/yr)	MEK Emissions (ton/yr)	Methanol Emissions (ton/yr)	Naphthalene Emissions (ton/yr)	Epichlorohydrin Emissions (ton/yr)
Epoxy - Universal HVS																	
Amercoat 240 Epoxy Resin		160	0.00%	1.00%	0.00%	0.00%	0.00%	0.00%	10.00%	0.00	0.97	0.00	0.00	0.00	0.00	0.00	9.72
Cure		140	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Amercoat 10 Thinner		175	60.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	4.43	0.00	0.00	2.95	0.00	0.00	0.00	0.00
Epoxy - Acrylic										0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Amercoat 229 Epoxy Resin		116	0.00%	1.00%	0.00%	0.00%	0.00%	1.00%	0.00%	0.00	0.07	0.00	0.00	0.00	0.00	0.07	0.00
Cure		104	1.00%	40.00%	0.00%	0.00%	0.00%	1.00%	0.00%	0.01	0.54	0.13	0.00	0.00	0.00	0.01	0.00
Amercoat 65 Thinner		103	1.00%	89.00%	10.00%	0.00%	0.00%	0.00%	0.00%	0.01	0.85	0.10	0.00	0.00	0.00	0.00	0.00
Epoxy - Multipurpose Finish										0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Amercoat 235 Resin		115	0.00%	1.00%	0.00%	0.00%	0.00%	0.00%	10.00%	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.82
Cure		134	0.00%	1.00%	1.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00
Amercoat 65 Thinner		103	1.00%	89.00%	10.00%	0.00%	0.00%	0.00%	0.00%	0.01	0.85	0.10	0.00	0.00	0.00	0.00	0.00
Alkyd - Top Coat										0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Amercoat 5450		120	0.00%	1.50%	1.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.12	0.08	0.00	0.00	0.00	0.00	0.00
Amercoat 15 Thinner		102	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Acrylic - Top Coat										0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PSX 1001		140	0.00%	18.00%	5.00%	0.00%	1.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Amercoat 8 Thinner		104	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	3.08	0.86	0.00	0.00	0.17	0.00	0.00
Primer - Inorganic Zinc										0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00
Dimecote 9 Primer - Reinf. Inorganic Zinc Resin		140	5.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cure		136	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Amercoat 10 Thinner		103	60.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.74	0.00	0.00	0.49	0.00	0.00	0.00	0.00
Cleaner/Thinner										0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Amercoat 12 Thinner		120	60.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Amercoat 65 Thinner		110	1.00%	89.00%	10.00%	0.00%	0.00%	0.00%	0.00%	0.03	2.83	0.32	0.00	0.00	0.00	0.00	0.00

Total State Potential Emissions: 9.63 9.42 1.60 3.44 1.16 0.17 0.08 10.54

METHODOLOGY: HAPS emission rate (tons/yr) = Density (lb/gal) * Max Gal use per year * Weight % HAP * 1 ton/2000 lbs

Total HAPS: 36.04

**Appendix A: Emissions Calculations
Fuel Storage Operations**

Company Name: Corn Island Shipyard
 Address City IN Zip: 9447 E. SR 66, Grandview, IN 47615
 Permit Number: 147-27989-00047
 Pit ID: 147-00047
 Reviewer: Bruce Farrar
 Date: May 27, 2009

Gasoline (RVP - 7)

LOSS	Emission Factor lbs/ 1000gal*	Gal/Year Through Put	PTE (VOC) Tons/yr
Storage loss	16.5		
Through Put Loss	5.7		
Fill Tank Loss	5.4		
Vehicle Fill Loss	11.0		
Spill Loss	0.7		
Total Loss	39.3	25,000	0.49

0.49

2 Diesel & Kerosene

LOSS	Emission Factor lbs/ 1000gal*	Gal/Year Through Put	PTE (VOC) Tons/yr
Breathing Loss	0.40		
Working Loss	0.02		
Filling Loss	0.022		
Total Loss	0.442	95,000	0.02

0.02

TOTAL PTE VOC FROM FUELS**0.51 Tons/Year**

* Emission Factors for Gasoline from AP-42 5.2-7

1. Emission Factors for #2 Diesel and Kerosene from EPA's Factor Information Retrieval (FIRE) Data System 6.2

METHODOLOGY

$$\text{VOC emissions tons/year} = (\text{gal/year throughput}) * (\text{emissionfactor lbs/1000 gal}) * (1 \text{ ton}/2000 \text{ lbs})$$

Appendix A: Emission Calculations
Large Reciprocating Internal Combustion Engines - Diesel Fuel
Output Rating (>600 HP)
Maximum Input Rate (>4.2 MMBtu/hr)

Company Name: Corn Island Shipyard
Address City IN Zip: 9447 E. SR 66, Grandview, IN 47615
Permit Number: 147-27989-00047
Plt ID: 147-00047
Reviewer: Bruce Farrar
Date: May 27, 2009

Emissions calculated based on output rating (hp)

Output Horsepower Rating (hp)	1220.0
Maximum Hours Operated per Year	8760
Potential Throughput (hp-hr/yr)	10,687,200
Sulfur Content (S) of Fuel (% by weight)	2.500

	Pollutant						
	PM*	PM10*	PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/hp-hr	7.00E-04	4.01E-04	4.01E-04	2.02E-02 (.00809S)	2.40E-02 **see below	7.05E-04	5.50E-03
Potential Emission in tons/yr	3.74	2.14	2.14	108.07	128.25	3.77	29.39

*PM10 emission factor in lb/hp-hr was calculated using the emission factor in lb/MMBtu and a brake specific fuel consumption of 7,000 Btu / hp-hr (AP-42 Table 3.3-1).

**NOx emission factor: uncontrolled = 0.024 lb/hp-hr, controlled by ignition timing retard = 0.013 lb/hp-hr

Hazardous Air Pollutants (HAPs)

	Pollutant						
	Benzene	Toluene	Xylene	Formaldehyde	Acetaldehyde	Acrolein	Total PAH HAPs***
Emission Factor in lb/hp-hr****	5.43E-06	1.97E-06	1.35E-06	5.52E-07	1.76E-07	5.52E-08	1.48E-06
Potential Emission in tons/yr	2.90E-02	1.05E-02	7.22E-03	2.95E-03	9.43E-04	2.95E-04	7.93E-03

***PAH = Polyaromatic Hydrocarbon (PAHs are considered HAPs, since they are considered Polycyclic Organic Matter)

****Emission factors in lb/hp-hr were calculated using emission factors in lb/MMBtu and a brake specific fuel consumption of 7,000 Btu / hp-hr (AP-42 Table 3.3-1).

Potential Emission of Total HAPs (tons/yr)	5.89E-02
---	-----------------

Methodology

Emission Factors are from AP 42 (Supplement B 10/96) Tables 3.4-1, 3.4-2, 3.4-3, and 3.4-4

Potential Throughput (hp-hr/yr) = [Output Horsepower Rating (hp)] * [Maximum Hours Operated per Year]

Potential Emission (tons/yr) = [Potential Throughput (hp-hr/yr)] * [Emission Factor (lb/hp-hr)] / [2,000 lb/ton]

Appendix A: Emission Calculations
Reciprocating Internal Combustion Engines - Diesel Fuel
Output Rating (<=600 HP)
Maximum Input Rate (<=4.2 MMBtu/hr)

Company Name: Corn Island Shipyard
Address City IN Zip: 9447 E. SR 66, Grandview, IN 47615
Permit Number: 147-27989-00047
Pit ID: 147-00047
Reviewer: Bruce Farrar
Date: May 27, 2009

Emissions calculated based on output rating (hp)

Output Horsepower Rating (hp)	2305.0
Maximum Hours Operated per Year	8760
Potential Throughput (hp-hr/yr)	20,191,800

	Pollutant						
	PM*	PM10*	PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/hp-hr	0.0022	0.0022	0.0022	0.0021	0.0310	0.0025	0.0067
Potential Emission in tons/yr	22.21	22.21	22.21	20.70	312.97	25.38	67.44

*PM and PM2.5 emission factors are assumed to be equivalent to PM10 emission factors. No information was given regarding which method was used to determine the factor or the fraction of PM10 which is condensable.

Hazardous Air Pollutants (HAPs)

	Pollutant							Total PAH HAPs***
	Benzene	Toluene	Xylene	1,3-Butadiene	Formaldehyde	Acetaldehyde	Acrolein	
Emission Factor in lb/hp-hr****	6.53E-06	2.86E-06	2.00E-06	2.74E-07	8.26E-06	5.37E-06	6.48E-07	1.18E-06
Potential Emission in tons/yr	6.59E-02	2.89E-02	2.01E-02	2.76E-03	8.34E-02	5.42E-02	6.54E-03	1.19E-02

***PAH = Polyaromatic Hydrocarbon (PAHs are considered HAPs, since they are considered Polycyclic Organic Matter)

****Emission factors in lb/hp-hr were calculated using emission factors in lb/MMBtu and a brake specific fuel consumption of 7,000 Btu / hp-hr (AP-42 Table 3.3-1).

Potential Emission of Total HAPs (tons/yr)	2.74E-01
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Methodology

Emission Factors are from AP42 (Supplement B 10/96), Tables 3.3-1 and 3.3-2

Potential Throughput (hp-hr/yr) = [Output Horsepower Rating (hp)] * [Maximum Hours Operated per Year]

Potential Emission (tons/yr) = [Potential Throughput (hp-hr/yr)] * [Emission Factor (lb/hp-hr)] / [2,000 lb/ton]

**Appendix A: Emission Calculations
Limited Annual Fuel Consumption**

Company Name: Corn Island Shipyard
Address City IN Zip: 9447 E. SR 66, Grandview, IN 47615
Permit Number: 147-27989-00047
PK ID: 147-00047
Reviewer: Bruce Farrar
Date: May 27, 2009

Product	HP Type	Annual Usage (Gal)	BTU/Gal	NOX Emission Factor ¹ lb/MMBtu	NOX Tons/Yr	CO Emission Factor ¹ lb/MMBtu	CO Tons/Yr	SOX Emission Factor ¹ lb/MMBtu	SOX Tons/Yr	PM-10 Emission Factor ¹ lb/MMBtu	PM-10 Tons/Yr	VOC Emission Factor ¹ lb/MMBtu	VOC Tons/Yr
#2 DIESEL	>600 HP	15,000	139,000	3.2	3.34	0.85	0.886	1.51	1.574	0.01	0.010	0.09	0.094

Product	HP Type	Annual Usage (Gal)	BTU/Gal	NOX Emission Factor ² lb/MMBtu	NOX Tons/Yr	CO Emission Factor ² lb/MMBtu	CO Tons/Yr	SOX Emission Factor ² lb/MMBtu	SOX Tons/Yr	PM-10 Emission Factor ² lb/MMBtu	PM-10 Tons/Yr	VOC Emission Factor ² lb/MMBtu	VOC Tons/Yr
#2 DIESEL	<600 HP	60,000	139,000	4.41	18.39	0.95	3.962	0.29	1.209	0.31	1.293	0.35	1.460

Product	HP Type	Annual Usage (Gal)	BTU/Gal	NOX Emission Factor ³ lb/MGal	NOX Tons/Yr	CO Emission Factor ³ lb/MGal	CO Tons/Yr	SOX Emission Factor ³ lb/MGal	SOX Tons/Yr	PM-10 Emission Factor ³ lb/MGal	PM-10 Tons/Yr	VOC Emission Factor ³ lb/MGal	VOC Tons/Yr
KEROSENE		20,000	135,000	80	0.80	0.2	0.002	144	1.440	15	0.150	3	0.030

TOTALS												
				22.53	4.85	4.22	1.45	1.58				

1 Emission Factors from AP-42, table 3.4-1
 2 Emission Factors from AP-42, table 3.3-1
 3 Emission Factors from Source
 Source requested to limit Diesel Fuel to 75,000 gallons and Kerosene to 20,000 gallons per year
METHODOLOGY
 Emissions tons/yr = (gallons/yr * BTU/gal) * (emission factor (lbs)/MMBtu) * (1ton/2000 lbs)



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: Fontain (Bud) Johnson
Corn Island Shipyard
POB 125
Lamar, IN 47550

DATE: December 1, 2009

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

SUBJECT: Final Decision
FESOP
147-27989-00047

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:
Don Foertsch, Responsible Official
Charles Bates, Consultant PABCO Corp.
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

Mail Code 61-53

IDEM Staff	DPABST 12/1/2009 Corn Island Shipyard 147-27989-00047 (Final)		CERTIFICATE OF MAILING ONLY	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		

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		Fontain (Bud) Johnson Corn Island Shipyard PO Box 125 Lamar IN 47550 (Source CAATS) (CONFIRM DELIVERY)									
2		Don Foertsch President Corn Island Shipyard PO Box 125 Lamar IN 47550 (RO CAATS)									
3		Mr. Randy Brown Plumbers & Steam Fitters Union, Local 136 2300 St. Joe Industrial Park Dr Evansville IN 47720 (Affected Party)									
4		Ms. Francis Lueken 223 W. 10th Street, P.O. Box 206 Ferdinand IN 47532 (Affected Party)									
5		Grandview Town Council P.O. Box 638 Grandview IN 47615 (Local Official)									
6		Spencer Co Public Library 210 N Walnut St Rockport IN 47635-1398 (Library)									
7		Ms. Kathy Tretter Dubois-Spencer Counties Publishing Co, Inc P.O. Box 38 Ferdinand IN 47532-0038 (Affected Party)									
8		Spencer County Commissioner/Health Dept. 200 Main Street, Courthouse Rockport IN 47635 (Affected Party)									
9		Spencer County Commissioners 200 Main St., Courthouse Rockport IN 47635 (Local Official)									
10		Spencer County Health Department Main Street Courthouse, 1st Floor, Room 1 Roackport IN 47635-1492 (Health Department)									
11		Mr. Charles Bates PABCO Corp. PO Box 115 Santa Claus IN 47579 (Consultant)									
12		Mr. John Blair 800 Adams Ave Evansville IN 47713 (Affected Party)									
13		Donald & Beverly Masterson 8450 State Road 66 Grandview IN 47615 (Affected Party)									
14		William & Mary Emmick 230 Emmick Road Lewisport IN 42351 (Affected Party)									
15		Donlin Corporation P.O. Box 16 Lamar IN 47550 (Affected Party)									

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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Mail Code 61-53

IDEM Staff	DPABST 12/1/2009 Corn Island Shipyard 147-27989-00047 (Final)		Type of Mail: CERTIFICATE OF MAILING ONLY	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		

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		Foertsch Construction Company P.O. Box 16 Lamar IN 47550 (Affected Party)										
2		Mason & Don Foertsch P.O. Box 16 Lamar IN 47500 (Affected Party)										
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10												
11												
12												
13												
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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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