



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 4, 2009

RE: Tell City Boat Works, Inc. / 123-28654-00026

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

Notice of Decision: Approval - Registration

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 4-21.5-3-4(d) this order is effective when it is served. When served by U.S. mail, the order is effective three (3) calendar days from the mailing of this notice pursuant to IC 4-21.5-3-2(e).

If you wish to challenge this decision, IC 4-21.5-3-7 requires 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
FN-REGIS.dot 1/2/08



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

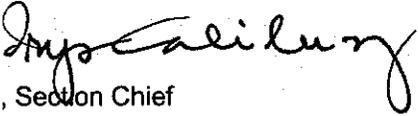
Thomas W. Easterly
Commissioner

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

REGISTRATION OFFICE OF AIR QUALITY

Tell City Boat Works, Inc.
926 South Boundary Street
Tell City, Indiana 47586

Pursuant to 326 IAC 2-5.1 (Construction of New Sources: Registrations) and 326 IAC 2-5.5 (Registrations), (herein known as the Registrant) is hereby authorized to construct and operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this registration.

Registration No. 123-28654-00026	
Issued by:  Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: December 4, 2009

SECTION A

SOURCE SUMMARY

This registration is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 and A.2 is descriptive information and does not constitute enforceable conditions. However, the Registrant 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 Registrant to obtain additional permits pursuant to 326 IAC 2.

A.1 General Information

The Registrant owns and operates a stationary ship building and repair; marine barges and vessels manufacturer.

Source Address:	926 South Boundary Street, Tell City, IN 47586
Mailing Address:	P.O. Box 516, Tell City, IN 47586
General Source Phone Number:	(812) 529-8211
SIC Code:	3731
County Location:	Perry County
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Registration

A.2 Emission Units and Pollution Control Equipment Summary

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

- (a) One (1) outside metal paint area, identified as 05, approved for construction in 2009, using no control devices and exhausting outside, using two (2) High Volume Low Pressure (HVLP) spray guns with a maximum rate of 0.34 gallons per hour.
- (b) Cutting operation, identified as 02, approved for construction in 2009, using no controls, consisting of Four (4) HPG/oxygen torch units (3 manual and 1 cutting machine), with a maximum cutting rate of 0.50 inch steel at six (6) inches per minute.
- (c) Welding operation, identified as 03, approved for construction in 2009, consisting of:
 - (1) Ten (10) SMAW stations, with a maximum consumption of 0.64 pounds of electrode per hour, with no control device and exhausting outdoors.
 - (2) Ten (10) FCAW stations, with a maximum consumption of 6.23 pounds of electrode per hour, with no control device and exhausting outdoors.
- (d) One (1) diesel powered lift crane, rated at 184 horsepower.
- (e) Indoor and outdoor kerosene heaters.
- (f) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]
- (g) Application of oils, greases, lubricants or other nonvolatile materials applied as temporary protective coatings.
- (h) A petroleum fuel, other than gasoline, dispensing facility, having a storage capacity of less than or equal to 10,500 gallons, and dispensing less than 3,500 gallons per day or less.

SECTION B

GENERAL CONDITIONS

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

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

B.2 Effective Date of Registration [IC 13-15-5-3]

Pursuant to IC 13-15-5-3, this registration 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.

B.3 Registration Revocation [326 IAC 2-1.1-9]

Pursuant to 326 IAC 2-1.1-9 (Revocation), this registration to operate may be revoked for any of the following causes:

- (a) Violation of any conditions of this registration.
- (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this registration.
- (c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this registration shall not require revocation of this registration.
- (d) For any cause which establishes in the judgment of IDEM the fact that continuance of this registration is not consistent with purposes of this article.

B.4 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of permits established prior to Registration No. 123-28654-00026 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 registration.

B.5 Annual Notification [326 IAC 2-5.1-2(f)(3)] [326 IAC 2-5.5-4(a)(3)]

Pursuant to 326 IAC 2-5.1-2(f)(3) and 326 IAC 2-5.5-4(a)(3):

- (a) An annual notification shall be submitted by an authorized individual to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this registration.
- (b) The annual notice shall be submitted in the format attached no later than March 1 of each year to:

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

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

B.6 Source Modification Requirement [326 IAC 2-5.5-6(a)]

Pursuant to 326 IAC 2-5.5-6(a), an application or notification shall be submitted in accordance with 326 IAC 2 to the Office of Air Quality (OAQ) if the source proposes to construct new emission units, modify existing emission units, or otherwise modify the source.

B.7 Registrations [326 IAC 2-5.1-2(i)]

Pursuant to 326 IAC 2-5.1-2(i), this registration does not limit the source's potential to emit.

SECTION C

SOURCE OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards [326 IAC 2-5.1-2(g)] [326 IAC 2-5.5-4(b)]

C.1 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 registration:

- (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.2 Fugitive Dust Emissions [326 IAC 6-4]

The Registrant 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).

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (a) One (1) outside metal paint area, identified as 05, approved for construction in 2009, using no control devices and exhausting outside, using two (2) High Volume Low Pressure (HVLP) spray guns with a maximum rate of 0.34 gallons per hour.

(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.1.1 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.1.2 Particulate [326 IAC 6-3-2(d)]

Pursuant to 326 IAC 6-3-2(d), particulate from the outside paint area, identified as 05, 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.

Compliance Determination Requirements

D.1.3 Volatile Organic Compounds (VOC) [326 IAC 8-1-2] [326 IAC 8-1-4]

Compliance with the VOC limitations contained in Condition D.1.1 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by preparing or obtaining from the manufacturer the copies of the "as supplied" and "as applied" VOC data sheets. IDEM, OAQ, reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

D.1.4 Volatile Organic Compounds (VOC) [326 IAC 8-1-2]

Compliance with the VOC content limit in Condition D.1.1 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.1.5 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.1.6 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.1.2. 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.1.7 Record Keeping Requirements

- (a) To document compliance with Condition D.1.1 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.1.1.
 - (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.1.6 the Permittee shall maintain a copy of the operator-training program and training records.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

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

**REGISTRATION
ANNUAL NOTIFICATION**

This form should be used to comply with the notification requirements under 326 IAC 2-5.1-2(f)(3) and 326 IAC 2-5.5-4(a)(3).

Company Name:	Tell City Boat Works, Inc.
Address:	926 South Boundary Street
City:	Tell City, Indiana 47586
Phone Number:	(812) 529-8211
Registration No.:	123-28654-00026

I hereby certify that Tell City Boat Works, Inc. is :

still in operation.

I hereby certify that Tell City Boat Works, Inc. is :

no longer in operation.

in compliance with the requirements of Registration No. 123-28654-00026.

not in compliance with the requirements of Registration No. 123-28654-00026.

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

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

Noncompliance:

Indiana Department of Environmental Management Office of Air Quality

Technical Support Document (TSD) for a Registration

Source Description and Location

Source Name:	Tell City Boat Works, Inc.
Source Location:	926 South Boundary Street
County:	Perry
SIC Code:	3731
Registration No.:	123-28654-00026
Permit Reviewer:	Bruce Farrar

On November 9, 2009, the Office of Air Quality (OAQ) received an application from Tell City Boat Works, Inc. related to the construction and operation of a new a stationary ship building and repair; marine barges and vessels manufacturer.

Existing Approvals

There have been no previous approvals issued to this source.

County Attainment Status

The source is located in Perry 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.
¹ Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005. Unclassifiable or attainment effective April 5, 2005, for PM2.5.	

(a) Ozone Standards

Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to ozone. Perry County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(b) PM2.5

Perry County has been classified as attainment for PM2.5. On May 8, 2008 U.S. EPA promulgated the requirements for Prevention of Significant Deterioration (PSD) for PM2.5 emissions, and the effective date of these rules was July 15, 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
Perry County has been classified as attainment or unclassifiable in Indiana for pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Fugitive Emissions

The fugitive emissions of criteria pollutants and hazardous air pollutants are counted toward the determination of 326 IAC 2-5.1-2 (Registrations) applicability.

Background and Description of Emission Units and Pollution Control Equipment

The Office of Air Quality (OAQ) has reviewed an application, submitted by Tell City Boat Works, Inc. on November 9, 2009, relating to construction and operation of a stationary ship building and repair, marine barges and vessels manufacturer. The source has the potential to emit pollutants greater than five (5) tons per year, therefore requires a registration.

The following is a list of the new emission units:

- (a) One (1) outside metal paint area, identified as 05, approved for construction in 2009, using no control devices and exhausting outside, using two (2) High Volume Low Pressure (HVLP) spray guns with a maximum rate of 0.34 gallons per hour.
- (b) Cutting operation, identified as 02, approved for construction in 2009, using no controls, consisting of Four (4) HPG/oxygen torch units (3 manual and 1 cutting machine), with a maximum cutting rate of 0.50 inch steel at six (6) inches per minute.
- (c) Welding operation, identified as 03, approved for construction in 2009, consisting of:
- (1) Ten (10) SMAW stations, with a maximum consumption of 0.64 pounds of electrode per hour, with no control device and exhausting indoors.
- (2) Ten (10) FCAW stations, with a maximum consumption of 6.23 pounds of electrode per hour, with no control device and exhausting indoors.
- (d) One (1) diesel powered lift crane, rated at 184 horsepower.
- (e) Indoor and outdoor kerosene heaters.
- (f) Paved and unpaved roads and parking lots with public access.[326 IAC 6-4]
- (g) Application of oils, greases, lubricants or other nonvolatile materials applied as temporary protective coatings.
- (h) A petroleum fuel, other than gasoline, dispensing facility, having a storage capacity of less than or equal to 10,500 gallons, and dispensing less than 3,500 gallons per day or less.

Enforcement Issues

There are no pending enforcement actions related to this source.

Emission Calculations

See Appendix A of this TSD for detailed emission calculations.

Permit Level Determination – Registration

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.

Process/ Emission Unit	Potential To Emit of the Entire Source (tons/year)								
	PM	PM10 *	PM2.5	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP
Cutting Operation	0.18	0.18	0.18	0	0	0	0	1.01E-06	negl.
Welding Operation	1.33	1.33	1.33	0	0	0	0	0.75	0.73 Magnesium
Grinding	0.80	0.80	0.80	0	0	0	0	0	0
Surface Coating	15.07	15.07	15.07	0	0	16.28	0	16.18	6.68 Epichlorhydrin
Fuel Use	1.77	1.77	1.77	1.65	24.98	2.03	5.38	0.02	negl.
Fugitive Emissions	0.51	0.13	0.13	0	0	0	0	0	0
Total PTE of Entire Source	19.67	19.28	19.28	1.65	24.98	18.31	5.38	16.95	6.68
Registration Levels	25	25	25	25	25	25	100	25	10

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".

- (a) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1(16)) of pollutants are within the ranges listed in 326 IAC 2-5.1-2(a)(1). The PTE of all other regulated criteria pollutants are less than the ranges listed in 326 IAC 2-5.1-2(a)(1). Therefore, the source is subject to the provisions of 326 IAC 2-5.1-2 (Registrations). A Registration will be issued.
- (b) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1(16)) of any single HAP is less than ten (10) tons per year and the PTE of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-7.

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 compression ignition ICE meets the definition of a nonroad engine as defined by 40 CFR 1068.30.
- (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) The requirements of the National Emission Standards for Hazardous Air Pollutants for Shipbuilding and Ship Repair (40 CFR 63, Subpart II) (326 IAC 20-26), are not included in the permit because the source is not a major source for HAPS.
- (d) 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 the source is not a major source of HAPS.
- (e) 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.
- (f) The requirements of the National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities (40 CFR 63, Subpart CCCCCC), are not included in the permit, because the source does not have any gasoline storage tanks.
- (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)

- (g) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is not included in the permit, because the unlimited potential to emit of the source is 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 2-5.1-2 (Registrations)
Registration applicability is discussed under the Permit Level Determination – Registration section above.
- (b) 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))
The potential to emit of any single HAP is less than ten (10) tons per year and the potential to emit of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-4.1.
- (c) 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.
- (d) 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.
- (e) 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.
- (f) 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)
The source is not subject to the requirements of 326 IAC 6-5, because the source does not have potential fugitive particulate emissions greater than 25 tons per year. Therefore, 326 IAC 6-5 does not apply.
- (h) 326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)
Each of the emission units at this source is not subject to the requirements of 326 IAC 8-1-6, since the unlimited VOC potential emissions from each emission unit is less than twenty-five (25) tons per year.
- (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 Perry County.

HPG/Oxygen Cutting Operations

- (j) 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

- (k) (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

- (l) (326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
 - (1) The outside metal paint area, identified as 05, does not use dip, roll, flow or brush coating exclusively and uses more than five (5) gallons of paint per day, therefore, 326 IAC 6-3-2 applies.
 - (2) Pursuant to 326 IAC 6-3-2(d), particulate from the outside paint area, identified as 05, shall be controlled by a dry particulate filter, waterwash, or an equivalent control device. IDEM has made a determination that Tell City Boat Work's work practice standards are an equivalent control device. Therefore, the following work practice standards shall be followed when the outside metal paint area is in operation:
 - (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.

- (m) 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations)
The surface coating operations at this source, identified as 05, perform the coating of metal parts under the SIC classification code 3731 and have actual VOC emissions greater than fifteen (15) pounds per day before add on controls. Therefore, 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 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.

- (n) There are no other 326 IAC 8 Rules that are applicable to the outdoor paint area.

Fuel Use Operations

- (o) 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 does not have gasoline storage tanks.
- (p) 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

- (q) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-1(b)(14), the grinding 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.

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 November 9, 2009.

The construction and operation of this source shall be subject to the conditions of the attached proposed Registration No. 123-28654-00026. The staff recommends to the Commissioner that this Registration 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: Tell City Boat Works, Inc.
Address City IN Zip: 926 South Boundary St., Tell City, IN 47586
Permit Number: 123-28654-00026
Plt ID: 123-00026
Reviewer: Bruce Farrar
Date: November 9, 2009

Uncontrolled Potential to Emit (tons/year)							
	Cutting 02	Welding 03	Grinding 04	Surface Coating 05	Fuel Comsumption 06	Fugitives	Totals
PM	0.18	1.33	0.80	15.07	1.77	1.55	20.71
PM10	0.18	1.33	0.80	15.07	1.77	0.40	19.55
PM2.5	0.18	1.33	0.80	15.07	1.77	0.40	19.55
SO2	0	0	0	0	1.65		1.65
NOX	0	0	0	0	24.98		24.98
VOC	0	0	0	16.28	2.03		18.31
CO			0	0	5.38		5.38
total HAPs	1.01E-06	0.75	0	16.18	2.19E-02		16.95
Worst Case HAP	3.68E-07	0.73		6.68			
HAP name	Chromium	Magnesium		Epichlorhydrin			

Limited Potential to Emit (tons/year)								
	Cutting 02	Welding 03	Grinding 04	Surface Coating 05	Fuel Comsumption 06	Fugitives	Totals	
PM	0.18	1.33	0.80	15.07	1.77	0.51	19.67	
PM10	0.18	1.33	0.80	15.07	1.77	0.13	19.28	
PM2.5	0.18	1.33	0.80	15.07	1.77	0.13	19.28	
SO2					1.65		1.65	
NOX					24.98		24.98	
VOC				16.28	2.03		18.31	
CO					5.38		5.38	
total HAPs	<25							<25
Worst Case HAP		5.52E-07	0.10	6.68			<10	
HAP name		Magnesium	Magnesium	Epichlorhydrin				

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

Company Name: Tell City Boat Works, Inc.
Address City IN Zip: 926 South Boundary St., Tell City, IN 47586
Permit Number: 123-28654-00026
Plt ID: 123-00026
Reviewer: Bruce Farrar
Date: November 9, 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)	0.25	2.0	0.5	24.0	12.0	1400.0	0.265	0.1	48.4
Straight Truck (10 wheels) (misc supplies) (one way trip)	1.0	0.5	0.5	20.0	10.0	1400.0	0.265	0.1	48.4
Service Truck (6 wheel)	1.0	2.5	2.5	12.0	30.0	1400	0.265	0.7	242.0
Automobiles (employees & visitors)	2.0	2.5	5.0	1.5	7.5	1400	0.265	1.3	483.9
Total			8.5		59.5			2.3	822.6

Average Vehicle Weight Per Trip =

7.0

 tons/trip
 Average Miles Per Trip =

0.27

 miles/trip

Unmitigated Emission Factor, $E_f = k * [(s/12)^a] * [(W/3)^b]$ (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 P)
a =	0.7	0.9	= constant (AP-42 Table 13.2.2-2)
W =	7.0	7.0	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, $E_{ext} = E * [(365 - P)/365]$
 Mitigated Emission Factor, $E_{ext} = E * [(365 - P)/365]$
 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, $E_f =$	3.78	0.96	lb/mile
Mitigated Emission Factor, $E_{ext} =$	2.48	0.63	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) (one-way trip)	0.09	0.02	0.06	0.02	0.03	0.01
Straight Truck (10 wheels) (misc supplies) (one way trip)	0.09	0.02	0.06	0.02	0.03	0.01
Service Truck (6 wheel)	0.46	0.12	0.30	0.08	0.15	0.04
Automobiles (employees & visitors)	0.91	0.23	0.60	0.15	0.30	0.08
	1.55	0.40	1.02	0.26	0.51	0.13

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: Emissions Calculations
Thermal Cutting - Unlimited

Company Name: Tell City Boat Works, Inc.
Address City IN Zip: 926 South Boundary St., Tell City, IN 47586
Permit Number: 123-28654-00026
Pit ID: 123-00026
Reviewer: Bruce Farrar
Date: November 9, 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	1	0.5	0.5	0.0028	8.40E-06	1.40E-06	5.60E-06	0.042	1.26E-07	2.10E-08	8.40E-08	2.31E-07
EMISSION TOTALS												
Potential Emissions lbs/hr								0.04	1.26E-07	2.10E-08	8.40E-08	2.31E-07
Potential Emissions lbs/day								1.01	3.02E-06	5.04E-07	2.02E-06	5.54E-06
Potential Emissions tons/year								0.18	5.52E-07	9.20E-08	3.68E-07	1.01E-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" thick)

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 lbs

Appendix A: Emissions Calculations
Welding - Unlimited

Company Name: Tell City Boat Works, Inc.
Address City IN Zip: 926 South Boundary St., Tell City, IN 47586
Permit Number: 123-28654-00026
Pit ID: 123-00026
Reviewer: Bruce Farrar
Date: November 9, 2009

PROCESS	Electrode used (lbs/year)	EMISSION FACTORS*					EMISSIONS					Total HAPS (tons/year)
		1.0 lb/1000lbs	1.0 lb/1000lbs				(tons/year)					
		PM = PM10	Mn	Ni	Cr	Co	PM = PM10	Mn	Ni	Cr	Co	
WELDING												
SMAW Procedure												
30905108	35	16.4	1.38				0.000288	2.42E-05				2.42E-05
30905128	2,633	25.6	9.91	0.04	0.03		0.033696	1.304E-02	5.27E-05	3.95E-05		1.31E-02
30905132	176	38.4	9.98	0.05	0.05	0.01	0.003370	8.757E-04	4.39E-06	4.39E-06	8.78E-07	8.85E-04
30905144	4,475	18.4	10.3	0.02	0.06		0.041172	2.305E-02	4.48E-05	1.34E-04		2.32E-02
30905148	12,373	9.2	6.29		0.01		0.056915	3.891E-02	0.00E+00	6.19E-05		3.90E-02
30905156	35	17.1	0.3	0.51	0.17		0.000300	5.265E-06	8.95E-06	2.98E-06		1.72E-05
30905164	18	16.9	7.83	0.13	2.12		1.48E-04	6.871E-05	1.14E-06	1.86E-05		8.85E-05
GMWA Procedure												
30905220	74	3.2	2.45	2.26	5.28		0.000118	9.029E-05	8.33E-05	1.95E-04		3.68E-04
30905254	81	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
FCAW Procedures												
30905300	3,071	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	18	57	7.04	1.02	9.69		5.00E-04	6.18E-05	8.95E-06	8.50E-05	0.00E+00	1.56E-04
30905312	1,376	9.1					0.006					
30905320	2,236	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	20,656	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
30905355	163,742	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
SAW Procedure												
30905410	15479.1	0.05					3.87E-04					0.00E+00
Potential Emissions tons/year (CIS)							1.33	0.7	5.10E-03	1.35E-02	8.35E-04	0.75
PTE of TCBW (tons/year)^a							0.19	0.10	7.2812E-04	1.9238E-03	1.1933E-04	0.11

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

a. PTE is based on Corn Island Shipyard (CIS) with a potential steel throughput of 14,000 tons per year, TCBW has a potential steel throughput of 2,000 tons per year.

METHODOLOGY

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

PTE of TCBW = (PTE CIS) * (2,000/14,000)

**Appendix A: Emissions Calculations
Grinding Operations**

Company Name: Tell City Boat Works, Inc.
Address City IN Zip: 926 South Boundary St., Tell City, IN 47586
Permit Number: 123-28654-00026
Plt ID: 123-00026
Reviewer: Bruce Farrar
Date: November 9, 2009

Grinding wheels used:

2530
500

 4 1/2" Wheels
 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
 TCBW PTE^a

0.8

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 PM₁₀.

a. PTE is based on a similar operation (at Corn Island Shipyard (CIS) (Permit #147-27989-00047)) with a potential steel throughput of 14,000 tons per year, TCBW has a potential steel throughput of 2,000 tons per year.

METHODOLOGY

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

**Appendix A: Emission Calculations
Uncontrolled HAP Emission Calculations**

**Company Name: Tell City Boat Works, Inc.
Address City IN Zip: 926 South Boundary St., Tell City, IN 47586
Permit Number: 123-28654-00026
Pit ID: 123-00026
Reviewer: Bruce Farrar
Date: November 9, 2009**

Material	Density (Lb/Gal)	Gallons of Material Hourly	Weight % Toluene	Weight % Xylene	Weight % Benzenes	Weight % MIBK	Weight % MEK	Weight % Methanol	Weight % Naphthalene	Weight % Epichlorhydrin	Toluene Emissions (ton/yr)	Xylene Emissions (ton/yr)	Benzenes Emissions (ton/yr)	MIBK Emissions (ton/yr)	MEK Emissions (ton/yr)	Methanol Emissions (ton/yr)	Naphthalene Emissions (ton/yr)	Epichlorhydrin Emissions (ton/yr)
Epoxy - Universal HVS																		
Amercoat 240 Epoxy Resin/Cure	12.70	1.20	0.00%	1.00%	0.00%	0.00%	0.00%	0.00%	0.00%	10.00%	0.00	0.67	0.00	0.00	0.00	0.00	0.00	6.68
Amercoat 10 Thinner	7.01	0.24	60.00%	0.00%	0.00%	40.00%	0.00%	0.00%	0.00%	0.00%	4.43	0.00	0.00	2.95	0.00	0.00	0.00	0.00
Cleaner/Thinner											0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Amercoat12	6.93	0.08	60.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total State Potential Emissions **5.89 0.67 0.00 2.95 0.00 0.00 0.00 6.68**

METHODOLOGY **Total HAPS: 16.18**

HAPS emission rate (tons/yr) = Density (lb/gal) * Gal per hour * Weight % HAP * 8760 hours * 1 ton/2000 lbs

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

Company Name: Tell City Boat Works, Inc.
Address City IN Zip: 926 South Boundary St., Tell City, IN 47586
Permit Number: 123-28654-00026
Plt ID: 123-00026
Reviewer: Bruce Farrar
Date: November 9, 2009

Emissions calculated based on output rating (hp)

Output Horsepower Rating (hp)	184.0
Maximum Hours Operated per Year	8760
Potential Throughput (hp-hr/yr)	1,611,840

	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	1.77	1.77	1.77	1.65	24.98	2.03	5.38

*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							
	Benzene	Toluene	Xylene	1,3-Butadiene	Formaldehyde	Acetaldehyde	Acrolein	Total PAH HAPs***
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	5.26E-03	2.31E-03	1.61E-03	2.21E-04	6.66E-03	4.33E-03	5.22E-04	9.48E-04

***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)	2.19E-02
---------------------------------------------------	-----------------

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]



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: Don Foertsch
Tell City Boat Works, Inc.
PO Box 516
Tell City, IN 47586

DATE: December 4, 2009

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

SUBJECT: Final Decision
Registration
123-28654-00026

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:
Charles Bates - 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	GHOTOPP 12/4/2009 Tell City Boat Works 123-28654-00026 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		Don Foertsch Tell City Boat Works PO Box 516 Tell City IN 47586 (Source CAATS) via confirmed delivery										
2		Perry County Health Department Perry County Health Department Courthouse Annex Cannelton IN 47520-1251 (Health Department)										
3		Mr. Randy Brown Plumbers & Steam Fitters Union, Local 136 2300 St. Joe Industrial Park Dr Evansville IN 47720 (Affected Party)										
4		Mr. Ron Hendrich Schwab Corporation 4630 E St Rd 66 Cannelton IN 47520 (Affected Party)										
5		Tell City - City Council and Mayors Office PO Box 515 Tell City IN 47586 (Local Official)										
6		Perry County Commissioners Court House, 2219 Payne Street Tell City IN 47586 (Local Official)										
7		Mr. Charles Bates PABCO Corp. PO Box 115 Santa Claus IN 47579 (Consultant)										
8		Mr. John Blair 800 Adams Ave Evansville IN 47713 (Affected Party)										
9												
10												
11												
12												
13												
14												
15												

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.
7			