



# 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](http://www.idem.IN.gov)

TO: Interested Parties / Applicant

DATE: June 16, 2011

RE: Under Sea Sensor Systems Inc./ 183-30572-00034

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

## Notice of Decision – Approval

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 326 IAC 2, this approval was effective immediately upon submittal of the application.

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 from 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-AM.dot12/3/07



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Josh Fausnaugh  
UnderSea Sensor Systems, Inc.  
4678 East Park 30 Dr  
Columbia City, Indiana 46725-8869

June 16, 2011

Re: 183-30572-00034  
Second Notice-Only Change to  
R183-18483-00034

Dear Josh Fausnaugh:

UnderSea Sensor Systems, Inc. was issued a Registration No. R183-18483-00034 on April 4, 2004 for a stationary assembly/manufacturing sonobuoys facility, located at 4578 East Park 30 Dr, Columbia City, Indiana 46725-8869. On May 23, 2011, the Office of Air Quality (OAQ) received a letter from the source stating that on April 29, 2011 a Notice-Only Change was issued with some typographical errors, an omitted emission unit and an operational condition error. Pursuant to 326 IAC 2-5.5-6, the registration is hereby revised as follows, with deleted language as ~~strikeouts~~ and new language **bolded**:

1. UnderSea Sensor Systems, Inc. is requesting that the registration be corrected to include a natural gas-fired space heater located in Building B which was omitted in the First Notice-Notice Only Change, issued April 29, 2011. This change to the registration is considered a notice-only change pursuant to 326 IAC 2-5.5-6(d)(2).

### **Building B**

...

- (k) **One (1) natural gas-fired space heater, constructed in 1998, identified as TR-1, with a maximum heat input capacity of 6.05 MMBtu/hr.**

**Notice-Only Change No.: 183-30423-00034, issued April 29, 2011, identified seventeen (17) natural gas-fired units RTU 1 through RTU 18 as subject to the New Source Performance Standards for Small Industrial-Commercial-Institutional Steam Generated Units 40 CFR 60, Subpart Dc (60.4c through 60.48c). The seventeen (17) natural gas-fired space heaters (RTU 1 through RTU 18) located in Building A and the one natural gas-fired space heater (TR-1); located in Building B are not subject to the NSPS 40 CFR 60, Subpart Dc, because this units are not steam generated units**

...

### SECTION D.2

### OPERATION CONDITIONS

Facility Description [326 IAC 2-5.1-2(f)(2)] [326 IAC 2-5.5-4(a)(2)]:

...

### **Building B**

...

**(k) One (1) natural gas-fired space heater, constructed in 1998, identified as TR-1, with a maximum heat input capacity of 6.05 MMBtu/hr.**

...

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

...

2. UnderSea Sensor Systems, Inc. is requesting that a typographical error be corrected in the Emission Units and Pollution Control Equipment Summary. Item (b) 2 should be RTU-8. This change to the registration is considered a notice-only change pursuant to 326 IAC 2-5.5-6(d)(1).

(b) Seventeen (17) natural gas-fired space heaters, constructed in 1999, consisting of the following:

...

(2) One (1) natural gas-fired space heater, identified as ~~TRU~~RTU-8, with a maximum heat input capacity of 0.35 MMBtu/hr.

...

3. UnderSea Sensor Systems, Inc. is requesting that the operational requirement for space heaters be removed. The space heaters are not steam generated units and therefore, are not subject to 40 CFR 60, Subpart Dc.

(b) Seventeen (17) natural gas-fired space heaters, constructed in 1999, consisting of the following:

(1) Six (6) natural gas-fired space heaters, identified as RTU-1, 2, 4, 5, 6 and 7, each with a maximum heat input capacity of 0.4 MMBtu/hr.

(2) One (1) natural gas-fired space heater, identified as ~~TRU~~RTU-8, with a maximum heat input capacity of 0.35 MMBtu/hr.

(3) Three (3) natural gas-fired space heaters, identified as RTU-9, 10 and 11, each with a maximum heat input capacity of 0.25 MMBtu/hr

(4) Six (6) natural gas-fired space heaters, identified as RTU-12, 13, 14, 15, 16, and 17, each with a maximum heat input capacity of 0.205 MMBtu/hr.

(5) One (1) natural gas-fired space heater, identified as RTU-18, with a maximum heat input capacity of 0.135 MMBtu/hr

~~Under 40 CFR 60, Subpart Dc, units RTU 1 through 18 are considered affected units.~~

#### SECTION E.1 OPERATION CONDITIONS

~~Facility Description [326 IAC 2-5.1-2(f)(2)] [326 IAC 2-5.5-4(a)(2)]:~~

~~(b) Seventeen (17) natural gas-fired space heaters, constructed in 1999, consisting of the following:~~

~~(1) Six (6) natural gas fired space heaters, identified as RTU 1, 2, 4, 5, 6 and 7, each with a maximum heat input capacity of 0.4 MMBtu/hr.~~

- (2) ~~One (1) natural gas fired space heater, identified as TRU-8, with a maximum heat input capacity of 0.35 MMBtu/hr.~~
- (3) ~~Three (3) natural gas fired space heaters, identified as RTU-9, 10 and 11, each with a maximum heat input capacity of 0.25 MMBtu/hr~~
- (4) ~~Six (6) natural gas fired space heaters, identified as RTU-12, 13, 14, 15, 16, and 17, each with a maximum heat input capacity of 0.205 MMBtu/hr.~~
- (5) ~~One (1) natural gas fired space heater, identified as RTU-18, with a maximum heat input capacity of 0.135 MMBtu/hr~~

~~Under 40 CFR 60, Subpart Dc, units RTU-1 through 18 are considered affected units.~~

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

### National Source Performance Standards (NSPS) Requirements

#### ~~E.1.1 General Provisions Relating to NSPS [326 IAC 12-1][40 CFR Part 60, Subpart A]~~

- (a) ~~Pursuant to 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart A—General Provisions, which are incorporated by reference as 326 IAC 12-1, except as otherwise specified in 40 CFR 60, Subpart Dc.~~
- (b) ~~Pursuant to 40 CFR 60.10, 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~~

#### ~~E.1.2 New Source Performance Standard for Small Industrial Commercial Institutional Steam Generating Units, 40 CFR 60, Subpart Dc [(60.40c through 60.48c)] [326 IAC 12]~~

~~The Permittee which operates space heaters, identified as RTU-1 through 18 shall comply with the following provisions of 40 CFR 60, Subpart Dc (included as Attachment A of this permit):~~

~~Applicable portions of the NSPS are the following:~~

- ~~40 CFR 60.40c(a), (b), (c), and (e)~~
- ~~40 CFR 60.41c~~
- ~~40 CFR 60.48c(a), (a)(1), (a)(3), (g), and (i)~~

~~...~~

~~The source shall continue to operate according to 326 IAC 2-5.5. Please find enclosed the revised registration. A copy of the registration is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>. 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](http://www.idem.in.gov)~~

~~This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Marcia Earl, at (800) 451-6027, press 0 and ask for Marcia Earl or extension 3-0863, or dial (317) 233-0863.~~

UnderSea Sensor Systems, Inc.  
Columbia City, Indiana  
Permit Reviewer: Marcia Earl

Page 4 of 4  
Registration Notice-Only Change No. R183-30572-00034

Sincerely,



Alfred C. Dumaul, Ph. D., Section Chief  
Permits Branch  
Office of Air Quality

ACD/me

Attachment: Revised Registration

cc: File - Whitley County  
Whitley County Health Department  
Compliance and Enforcement Branch  
Billing, Licensing and Training Section



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## REGISTRATION OFFICE OF AIR QUALITY

**UnderSea Sensor Systems, Inc.**  
**4568 East Park 30 Dr**  
**Columbia City, Indiana 46725-8869**

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. R183-18483-00034	
Original signed/Issued by: Paul Dubenetzky, Chief Permits Branch Office of Air Quality	Issuance Date: April 8, 2004

First Notice-Only Change No. 183-30423-00034, Issued April 29, 2011

Second Notice-Only Change No. 183-30572-00034	
Issued by:  Alfred C. Dumauval, Ph. D., Section Chief Permits Branch Office of Air Quality	Issuance Date: June 16, 2011

## 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

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The Registrant owns and operates stationary assembly/manufacturing sonobuoys.

Source Address:	Building A - 4678 E Park 30 Dr, Columbia City, Indiana 46725-8869 Building B - 4568 E Park 30 Dr, Columbia City, Indiana 46725-8869
General Source Phone Number:	(260) 248-3674
SIC Code:	3812
County Location:	Whitley County
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Registration

### A.2 Source Definition

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This stationary assembly/manufacturing sonobuoys facility consists of two (2) buildings:

- (a) Building A is located at 4678 E Park 30 Dr, Columbia City, Indiana 46725-8869; and
- (b) Building B is located at 4568 E Park 30 Dr, Columbia City, Indiana 46725-8869.

Since the two (2) plants are located on contiguous or adjacent properties belong to the same industrial grouping and under common control of the same entity, they will be considered one (1) source, effective from the date of issuance of this registration.

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

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

- (a) Degreasing operations that do not exceed 145 gallons per 12 months and do not use halogenated solvents, including the following:
  - (1) One (1) cleaning operations, identified as C-1, constructed in 2004, and exhausting through stack S9.
  - (2) One (1) depotting operation, identified as DH-1, constructed in 2001, and exhausting through stack S10
- (b) Seventeen (17) natural gas-fired space heaters, constructed in 1999, consisting of the following:
  - (1) Six (6) natural gas-fired space heaters, identified as RTU-1, 2, 4, 5, 6 and 7, each with a maximum heat input capacity of 0.4 MMBtu/hr.
  - (2) One (1) natural gas-fired space heater, identified as RTU-8, with a maximum heat input capacity of 0.35 MMBtu/hr.
  - (3) Three (3) natural gas-fired space heaters, identified as RTU-9, 10 and 11, each

with a maximum heat input capacity of 0.25 MMBtu/hr

- (4) Six (6) natural gas-fired space heaters, identified as RTU-12, 13, 14, 15, 16, and 17, each with a maximum heat input capacity of 0.205 MMBtu/hr.
  - (5) One (1) natural gas-fired space heater, identified as RTU-18, with a maximum heat input capacity of 0.135 MMBtu/hr
- (c) Six (6) soldering areas, constructed in 1999, each consuming less than 625 lbs/day of wire and using aerosol cans for plastic coating operations, consisting of the following:
- (1) Two (2) soldering areas, identified as SA-2 and 4, and exhausting through stacks S2 and S4.
  - (2) Three (3) soldering areas, identified as SA-1, 3, and 5, and exhausting inside the building.
  - (3) One (1) soldering area, identified as SA-6, and exhausting through stack S9.
- (d) Two (2) primer applications, identified as P-53 and P-QRS, constructed in 1990, using brush or flow coating method, and exhausting through stacks S1 and S6, respectively.
- (e) Two (2) electric adhesive curing ovens, identified as oven #4 and #5, constructed in 1999, and exhausting through stack S5.
- (f) Three (3) potting ovens, constructed in 1999, consisting of the following:
- (1) Two (2) potting ovens identified as ovens #1 and #3, and exhausting through stacks S1 and S7, respectively.
  - (2) One (1) potting oven identified as oven #7, and exhausting through Stack S8.
- (g) Two (2) adhesive applications, identified as AH1 and Ah2, constructed in 2000, using brush coating method, and exhausting through stack S6.
- (h) One (1) winding operation, identified as W-1, constructed in 2000, using aerosol cans to apply coatings, and exhausting through stack S7.
- (i) One (1) assembly area, constructed in 1999, using aerosol cans, brushing coating , and roller coating methods and exhausting inside the building.
- (j) Two (2) packing hoods, identified as PH1 and PH2, constructed in 2001, using wipe coating method, and exhausting through stack S6.

#### Building B

- (k) One (1) natural gas-fired space heater, constructed in 1998, identified as TR-1, with a maximum heat input capacity of 6.05 MMBtu/hr.

## SECTION B

## GENERAL CONDITIONS

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

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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]

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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]

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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 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]

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- (a) All terms and conditions of permits established prior to Registration No. R183-18483-00034 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)]

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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)]**

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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)]**

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

**B.8 Preventive Maintenance Plan [326 IAC 1-6-3]**

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- (a) If required by specific condition(s) in Section D of this registration, the Registrant shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this registration 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 Registrant's control, the PMPs cannot be prepared and maintained within the above time frame, the Registrant may extend the date an additional ninety (90) days provided the Registrant 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 Registrant shall implement the PMPs.

- (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 Registrant to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions.
- (c) To the extent the Registrant is required by 40 CFR Part 60 or 40 CFR Part 63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such OMM Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

## 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

## OPERATION CONDITIONS

Facility Description [326 IAC 2-5.1-2(f)(2)] [326 IAC 2-5.5-4(a)(2)]:

- (a) Degreasing operations that do not exceed 145 gallons per 12 months and do not use halogenated solvents, including the following:
  - (1) One (1) cleaning operations, identified as C-1, constructed in 2004, and exhausting through stack S9.
  - (2) One (1) depotting operation, identified as DH-1, constructed in 2001, and exhausting through stack S10

(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 2-5.1-2(f)(1)] [326 IAC 2-5.5-4(a)(1)]

#### D.1.1 Organic Solvent Degreasing Operations [326 IAC 8-3]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), for cold cleaning operations constructed after January 1, 1980, the Permittee shall:

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

#### D.1.2 Cold Cleaner Operation [326 IAC 8-3-5]

(a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaner degreaser without remote solvent reservoirs constructed after July 1, 1990, shall ensure that the following requirements are met:

- (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
  - (A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38<sup>o</sup>C) (one hundred degrees Fahrenheit (100<sup>o</sup>F));
  - (B) The solvent is agitated; or
  - (C) The solvent is heated.

- (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38<sup>o</sup>C) (one hundred degrees Fahrenheit (100<sup>o</sup>F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.
  - (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).
  - (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
  - (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38<sup>o</sup>C) (one hundred degrees Fahrenheit (100<sup>o</sup>F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9<sup>o</sup>C) (one hundred twenty degrees Fahrenheit (120<sup>o</sup>F)):
    - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
    - (B) A water cover when the solvent is used is insoluble in, and heavier than, water.
    - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility, construction of which commenced after July 1, 1990, shall ensure that the following operating requirements are met:
- (1) Close the cover whenever articles are not being handled in the degreaser.
  - (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
  - (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

## SECTION D.2

## OPERATION CONDITIONS

Facility Description [326 IAC 2-5.1-2(f)(2)] [326 IAC 2-5.5-4(a)(2)]:

- (b) Seventeen (17) natural gas-fired space heaters, constructed in 1999, consisting of the following:
- (1) Six (6) natural gas-fired space heaters, identified as RTU-1, 2, 4, 5, 6 and 7, each with a maximum heat input capacity of 0.4 MMBtu/hr.
  - (2) One (1) natural gas-fired space heater, identified as TRU-8, with a maximum heat input capacity of 0.35 MMBtu/hr.
  - (3) Three (3) natural gas-fired space heaters, identified as RTU-9, 10 and 11, each with a maximum heat input capacity of 0.25 MMBtu/hr
  - (4) Six (6) natural gas-fired space heaters, identified as RTU-12, 13, 14, 15, 16, and 17, each with a maximum heat input capacity of 0.205 MMBtu/hr.
  - (5) One (1) natural gas-fired space heater, identified as RTU-18, with a maximum heat input capacity of 0.135 MMBtu/hr

Building B

- (k) One (1) natural gas-fired space heater, constructed in 1998, identified as TR-1, with a maximum heat input capacity of 6.05 MMBtu/hr.

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

### Emission Limitations and Standards [326 IAC 2-5.1-2(f)(1)] [326 IAC 2-5.5-4(a)(1)]

#### D.1.1 Particulate Emission Limitations [326 IAC 6-2]

Pursuant to 326 IAC 6-2-4, particulate emissions from indirect heating facilities constructed after September 21, 1983, shall be limited by the following equation:

$$Pt = 1.09/Q^{0.26} \quad \text{where } Pt = \text{Pounds of particulate matter emitted per million Btu (lb/MMBtu) heat input; and}$$
$$Q = \text{Total source maximum operating capacity rating in million Btu per hour (MMBtu/hr) heat input.}$$

For a total source maximum operating capacity rating (Q) less than 10 MMBtu/hr, particulate emissions (Pt) shall not exceed 0.6 pound per MMBtu of heat input. For Q greater than or equal to 10,000 MMBtu/hr, Pt shall not exceed 0.1 pound per MMBtu of heat input.

**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).

<b>Company Name:</b>	<b>UnderSea Sensor Systems</b>
<b>Address:</b>	<b>4568 East Park 30 Drive</b>
<b>City:</b>	<b>Columbia City, Indiana 46725-8869</b>
<b>Phone Number:</b>	<b>(260) 248-3674</b>
<b>Registration No.:</b>	<b>R183-18483-00034</b>

I hereby certify that UnderSea Sensor Systems is :

still in operation.

I hereby certify that UnderSea Sensor Systems is :

no longer in operation.

in compliance with the requirements of Registration No. R183-18483-00034.

not in compliance with the requirements of Registration No. R183-18483-00034.

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

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

<b>Noncompliance:</b>



# 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](http://www.idem.IN.gov)

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

**TO:** Josh Fausnaugh  
UnderSea Sensor Systems  
4678 East Park 30  
Columbia City, IN 46725

**DATE:** June 16, 2011

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

**SUBJECT:** Final Decision  
Notice Only  
183-30572-00034

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:  
Douglas A. Randol, Responsible Official  
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](mailto:jbrush@idem.IN.gov).

Final Applicant Cover letter.dot 11/30/07

# Mail Code 61-53

IDEM Staff	DPABST 6/16/2011 UnderSea Sensor Systems, Inc. 183-30572-00034 (final)		AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING	
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204	Type of Mail:  <b>CERTIFICATE OF MAILING ONLY</b>	

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		Josh Fausnaugh UnderSea Sensor Systems, Inc. 4678 East Park 30 Dr Columbia City IN 46725-8869 (Source CAATS) (CONFIRM DELIVERY)										
2		Douglas A. Randol VP - Finance UnderSea Sensor Systems, Inc. 4678 East Park 30 Dr Columbia City IN 46725-8869 (RO CAATS)										
3		Mr. Janel Rogers 2050 E Linker Rd Columbia City IN 46725 (Affected Party)										
4		Mr. Nondus Carr 1760 South 500 East Columbia City IN 46725 (Affected Party)										
5		Mr. Thomas E. Delaney 2640 East 400 Columbia City IN 46725 (Affected Party)										
6		Mr. William Overdeer 3285 Cider Mill Road Columbia City IN 46725 (Affected Party)										
7		Mr. Robert F. Taylor 7856 S 800 E-92 Fort Wayne IN 46814 (Affected Party)										
8		Daniel & Sandy Trimmer 15021 Yellow River Road Columbia City IN 46725 (Affected Party)										
9		Whitley County Commissioners 220 West Van Buren Street Suite 207 Columbia City IN 46725 (Local Official)										
10		Duane & Deborah Clark Clark Farms 6973 E. 500 S. Columbia City IN 46725 (Affected Party)										
11		William Riley PO Box 837 Columbia City IN 46725 (Affected Party)										
12		Gene Donaghy Northeastern REMC 4901 E. Park 30 Drive Columbia City IN 46725-8790 (Affected Party)										
13		Mr. Lynn Weirick 3954 E Old Trail Rd Columbia City IN 46725 (Affected Party)										
14		Whitley County Health Department 220 West Van Buren Steetr Suite 111 Columbia City IN 46725-2056 (Health Department)										
15		Ms. Camille Amiri News Channel 15 2915 W State Blvd Fort Wayne IN 46808 (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 <b>Domestic Mail Manual R900, S913, and S921</b> for limitations of coverage on inured and COD mail. See <b>International Mail Manual</b> 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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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		Charles 4655 S. 700 East Columbia City IN 46725 (Affected Party)									
2		Michael Gayle 1315 S. 500 East Columbia City IN 46725 (Affected Party)									
3		Mr. Columbia City Council and Mayors Office 112 South Chauncey Street Columbia City IN 46725 (Local Official)									
4		Mark Zeltwanger 26545 CR 52 Nappanee IN 46550 (Affected Party)									
5											
6											
7											
8											
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 <b>Domestic Mail Manual R900, S913, and S921</b> for limitations of coverage on inured and COD mail. See <b>International Mail Manual</b> 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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