



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: January 8, 2010

RE: NSWC Crane / 101-288151-00002

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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Jim Hunsicker
NSWC Crane
Code 5092, Building 3260, 300 Highway 361
Crane, IN 47522

January 8, 2010

Re: Interim Minor Source Modification Petition Approval
101-288151-00005

Dear Mr. Hunsicker:

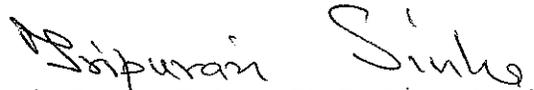
On December 28, 2009, the Office of Air Quality (OAQ) received an interim Minor Source Modification petition from NSWC Crane, located at 300 Highway 361 in Crane, Indiana. Based on the data and information submitted in the petition and the provisions in 326 IAC 2-13-1, this interim Minor Source Modification petition is hereby approved for:

The construction of a new HVLP spray paint booth.

Detailed conditions will be specified in the final Minor Source Modification 101-28815-00005. This interim Minor Source Modification expires on the effective date of the final Minor Source Modification. This interim Minor Source Modification may be revoked after its effective date upon a written finding by the OAQ that any of the reasons for denial in 326 IAC 2-13-1(h) exist or if the final Minor Source Modification is denied.

If you have any questions regarding this interim Minor Source Modification petition, please contact Jillian Bertram, OAQ, 100 North Senate Avenue, MC 61-53, Indianapolis, Indiana, 46204-2251, or call at (800) 451-6027, and ask for Jillian Bertram or extension 3-1782, or dial (317-233-1782).

Sincerely,


Tripurari P. Sinha, Ph. D., Section Chief
Permits Branch
Office of Air Quality

Enclosure: Interim Permit Evaluation (3 pages), emission calculations

JLB

cc: File - Martin County
Martin County Health Department
U.S. EPA, Region V
Compliance and Enforcement Branch
Mallory Sparks - SAIC

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

Company Name: Crane NSWC
Address City IN Zip: 300 Highway 361, Crane, IN 47522
Permit Number: 101-28815-00005
Reviewer: Jillian Bertram
Date: 12/29/2009

Material	Density (Lb/Gal)	Weight % Volatile (H2O & Organics)	Gal of Mat. (gal/unit)**	Maximum (unit/hour)**	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)	Transfer Efficiency
Primer										
N1673/74	11.8	0.00%	0.01111	45.000	5.15	2.58	61.80	11.28	0.03	99.9%
S3641	12.2	0.00%	0.01111	45.000	3.04	1.52	36.48	6.66	0.03	99.9%
S3651/52	7.5	0.00%	0.01111	45.000	5.59	2.79	67.08	12.24	0.02	99.9%
Top Coat										
S3608/09	8.9	63.00%	0.00889	45.000	2.22	0.89	21.31	3.89	0.01	99.9%
Marker										
S3628	11.9	0.00%	0.00222	45.000	2.99	0.30	7.17	1.31	0.01	99.9%
Solvent										
C4754/S3518 *	6.8	0.00%	0.00167	45.000	6.60	0.49	11.88	2.17	0.00	99.9%
N1213	6.2	0.00%	0.00111	45.000	6.22	0.31	7.46	1.36	0.00	99.9%

State Potential Emissions

4.79 114.90 20.97 0.04

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)
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 hr/yr) * (1 ton/2000 lbs)
Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (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 Primer + Top Coat + Marker + Sum of all solvents used

* C4754 an d S3518 are independent solvents, however, the solvent used to mix applied coatings varies, calculations were done using worst-case (S3518) solvent for all
** The source coats both 5 inch and 155 mm parts, these calculations are for worst-case (155mm) parts.

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

**Company Name: Crane NSWC
Address City IN Zip: 300 Highway 361, Crane, IN 47522
Permit Number: 101-28815-00005
Permit Reviewer: Jillian Bertram
Date: 12/29/2009**

Material	Density (Lb/Gal)	Gallons of Material (gal/unit) **	Maximum (unit/hour) **	Weight % Toluene	Weight % Xylene	Weight % Chromium	Toluene Emissions (ton/yr)	Xylene Emissions (ton/yr)	Chromium Emissions (ton/yr)
Primer									
N1673/74	11.8	0.01111	45.000	0.00%	8.00%	0.00%	0.00	2.07	0.00
S3641	12.2	0.01111	45.000	0.00%	0.00%	0.00%	0.00	0.00	0.00
S3651/52	7.5	0.01111	45.000	6.00%	0.00%	0.00%	0.99	0.00	0.00
Top Coat									
S3608/09	8.9	0.00889	45.000	0.00%	0.00%	14.00%	0.00	0.00	2.18
Marker									
S3628	11.9	0.00222	45.000	0.00%	0.00%	0.00%	0.00	0.00	0.00
Solvent									
C4754/S3518 *	6.8	0.00167	45.000	0.00%	0.00%	0.00%	0.00	0.00	0.00
N1213	6.2	0.00111	45.000	0.00%	0.00%	0.00%	0.00	0.00	0.00

Total State Potential Emissions **0.99 2.07 2.18**

METHODOLOGY

HAPS emission rate (tons/yr) = Density (lb/gal) * Gal of Material (gal/unit) * Maximum (unit/hr) * Weight % HAP * 8760 hrs/yr * 1 ton/2000 lbs

* C4754 and S3518 are independent solvents, however, the solvent used to mix applied coatings varies, calculations were done using worst-case (S3518) solvent for all

** The source coats both 5inch and 155mm parts, these calculations are for worst-case (155mm) parts.

Indiana Department of Environmental Management Office of Air Management

Interim Minor Permit Revision / Minor Source Modification Evaluation Sheet

Company Name: NSW Crane	
Location: 300 Highway 361	Permit No: 101-28815I-00005
Permit Reviewer: Jillian Bertram Date Receipt of Application: 12/29/09 Date of review: 12/29/09	
Description of the interim construction: One HVLP spray paint booth	
Date the Application was received + 19 days = 1/17/10	

Interim Petition Applicability: 326 IAC 2-13-1

- (a) Existing Source with valid permit;
- (b) Exemptions:
 - (1) construction of a PSD source or PSD modification;
 - (2) construction or modification in nonattainment area that would emit those pollutants for which the nonattainment designation is based.
 - (3) any modification subject to 326 IAC 2-4.1.
- (c) Approve or deny the interim minor permit revision or minor source modification in writing within 19 calendar days, or it becomes the enforceable interim minor permit revision or minor source modification. [326 IAC 2-13-1(d)]

Instructions: Check (✓) appropriate answers and make a recommendation.

1. Did the applicant submit a written petition for an interim minor permit revision or minor source modification?
 - Yes Go to question 2.
 - No Ignore verbal request.

2. Did the applicant pay the applicable interim permit fee? \$625 for TV, FESOP, and SSOA. \$500 for MSOP.
 - Yes Go to question 3.
 - No Deny the application, pursuant to 326 IAC 2-13-1(c)(1).

Comments: _____

3. Did the applicant state acceptance of federal enforceability of an interim minor permit revision or minor source modification?
 - Yes Go to question 4.
 - No Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(D).

4. Did the applicant or its authorized agent sign the application?
 - Yes Go to question 5.
 - No Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(E).

5. Did the applicant submit a notarized affidavit stating that the applicant will proceed at its own risk (if the interim minor permit revision or minor source modification is issued), including, but not limited to:
- (a) Financial risk,
 - (b) Risk that additional emission controls may be required,
 - (c) Risk that the final minor permit revision or minor source modification may be denied.
- Yes Go to question 6.
 No Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(F).
6. Did the applicant begin construction prior to submitting the interim minor permit revision or minor source modification application?
- Yes Deny the application, pursuant to 326 IAC 2-13-1(h)(6).
 No Go to question 7.
7. What is the type of the interim construction?
- New Source Deny the application, pursuant to 326 IAC 2-13-1(a)
 Modification to an existing source Go to question 8.
8. Did the applicant present data in the interim minor permit revision or minor source modification that is sufficient to determine PSD, NSPS, NESHAP, and state rule compliance?
- Yes Go to question 9.
 No Deny the application pursuant to:
326 IAC 2-13-1(c)(2)(B), for PSD;
326 IAC 2-13-1(c)(2)(C), for NSPS or NESHAP;
326 IAC 2-13-1(c)(2)(C), for state rules.
9. Is the proposed modification to be located in a nonattainment area?
- Yes Go to question 10.
 No Go to question 11.
- County: _____ County
- Comments: _____
10. Will the proposed modification emit the pollutant for which the area is nonattainment in quantities greater than the significant levels?
- Yes Deny the application, pursuant to 326 IAC 2-13-1(a)(2).
 No Go to question 11.
11. Did the petition include a complete description of the process?
- Yes Go to question 12.
 No Deny the petition, pursuant to 326 IAC 2-13-1(c)(2).
12. Did the interim minor permit revision or minor source modification petition contain conditions accepting either emission controls (baghouse, afterburners, scrubbers, etc.) or enforceable limits or other suitable restriction to avoid PSD applicability; as well as control parameters (incinerator operating temperature, baghouse pressure drop, etc.)? The specific limits must be explicitly spelled out (i.e.: The gas consumption of the boiler shall not exceed 29 million cubic feet per month.) A statement such as that the company agrees to conditions such that PSD rules are not applicable is not acceptable.
- Yes Go to question 13.
 No Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(B).

13. Do the emission controls and/or throughput limits prevent PSD applicability?
 Yes Go to question 14.
 No Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(B).
14. Will the modification, after application of all emission controls and/or throughput limitations comply with all applicable New Source Performance Standards (NSPS) (40 CFR 60)?
 Yes Go to question 15.
 No Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(C).
15. Will the modification, after application of all emission controls and/or throughput limitations comply with all applicable National Emission Standards for Hazardous Air Pollutants (NESHAP)?
 Yes Go to question 16.
 No Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(C).
16. Will the modification, after application of all emission controls and/or throughput limitations, comply with all applicable state rules?
 Yes Go to question 17.
 No Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(C).
17. Does the applicant dispute applicability of any applicable state or federal rule?
 Yes Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(C).
 No Go to question 18.
18. Is there good reason to believe that the applicant does not intend to construct in accordance with the interim minor permit revision or minor source modification petition?
 Yes Deny the application, pursuant to 326 IAC 2-13-1(h)(1).
 No Go to question 19.
19. Is there good reason to believe that information in the petition has been falsified?
 Yes Deny the application, pursuant to 326 IAC 2-13-1(h)(7).
 No Approve the interim minor permit revision or minor source modification petition.

Recommendation: _____

Date the approval was drafted: _____

Method of informing the applicant: _____

Comments: _____



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Indianapolis, Indiana 46204
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www.idem.IN.gov

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

TO: Jim Hunsicker
Crane Div, Naval Surface Warfare Ctr (NSWC Crane)
Code 0592, Bldg 3260, 300 Hwy 361
Crane, IN 47522-5001

DATE: January 8, 2010

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

SUBJECT: Final Decision
Interim Permit
101-28815I-00005

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:
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	CDENNY 1/8/2010 Crane Div. Naval Surface Warfare Ctr (NSWC Crane) 101-288151-00005 (final)			AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender	▶	Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204	Type of Mail: CERTIFICATE OF MAILING ONLY	

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee	Remarks
1		Jim Hunsicker Crane Div, Naval Surface Warfare Ctr (NSWC Crane) Code 0592, Bldg 3260, 300 Hwy 361 Crane IN 47522-5001 (Source CAATS)										
2		Mr. Randy Brown Plumbers & Steam Fitters Union, Local 136 2300 St. Joe Industrial Park Dr Evansville IN 47720 (Affected Party)										
3		Martin County Commissioners PO Box 600 129 S Main Street Courthouse Shoals IN 47581 (Local Official)										
4		Martin County Health Department P.O. Box 368 Shoals IN 47581-0368 (Health Department)										
5		Crane Town Council P.O. Box 114, 181 Larrimer Street Crane IN 47522 (Local Official)										
6		Mr. John Blair 800 Adams Ave Evansville IN 47713 (Affected Party)										
7		Kimberly Paurazas RR#6, Box 28 Bloomfield IN 47424 (Consultant)										
8		Mallory Sparks SAIC 14064 E. WestGate Court, P.O. Box 189 Crane IN 47522 (Consultant)										
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