**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 28, 2010

RE: Crane Div, Naval Surface Warfare Center / 101 - 28815 - 00005

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 13-17-3-4 and 326 IAC 2, this approval is effective immediately, unless a petition for stay of effectiveness is filed and granted, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3-7 and IC 13-15-7-3 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 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-MOD.dot 12/3/07

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January 28, 2010

Mr. Hunsicker
NSWC Crane
Code 0592, Building 3260
300 Highway 361
Crane, IN 47522

Re: 101-28815-00005
Minor Source Modification to:
Part 70 Permit Renewal No.: T101-21308-00005

Dear Mr. Hunsicker.:

NSWC Crane was issued Part 70 operating permit renewal T101-21308-00005 on December 2, 2008, for a source that manufactures, stores, and disposes of military base-ammunition, rockets and other military ordinance. An application to modify the source was received on December 28, 2009. Pursuant to 326 IAC 2-7-10.5 the following emission units are approved for construction at the source:

One (1) paint booth, consisting of:

CRN-0104-03-23-HH16, exhausting to stack CRN-0104-03-23-HH16-F, located in Building 104, approved for construction in 2010, using a dry filter to control particulate matter emissions.

The following construction conditions are applicable to the proposed project:

General Construction Conditions

1. The data and information supplied with the application shall be considered part of this source modification approval. Prior to any proposed change in construction which may affect the potential to emit (PTE) of the proposed project, the change must be approved by the Office of Air Quality (OAQ).

2. This approval to construct does not relieve the permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

3. Effective Date of the Permit
Pursuant to IC 13-15-5-3, this approval becomes effective upon its issuance.

4. Pursuant to 326 IAC 2-1.1-9 and 326 IAC 2-7-10.5(i), the Commissioner may revoke this approval if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.

5. All requirements and conditions of this construction approval shall remain in effect unless modified in a manner consistent with procedures established pursuant to 326 IAC 2.

6. Pursuant to 326 IAC 2-7-10.5(l) the emission units constructed under this approval shall not be placed into operation prior to revision of the source's Part 70 Operating Permit to incorporate the required operation conditions.

The source may begin construction when the minor source modification has been issued. Operating conditions shall be incorporated into the Part 70 operating permit as a minor permit modification in accordance with 326 IAC 2-7-10.5(l)(2) and 326 IAC 2-7-12.

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 call (800) 451-6027, press 0 and ask for Jillian Bertram or extension 3-1782 or dial (317)233-1782.

Sincerely,

Tripurari Sinha

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

Attachments
Updated Permit
Technical Support Document
Calculations
JLB

cc: File - Martin County
Martin County Health Department
IDEM's Southwest Regional Office
Compliance and Enforcement Branch
Interested Parties

Ms. Mallory Sparks
SAIC
14064 WestGate Ct., PO Box 189
Crane, IN 47522

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MC 61-53 IGCN 1003
Indianapolis, Indiana 46204
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# PART 70 OPERATING PERMIT RENEWAL
# OFFICE OF AIR QUALITY

## Crane Division, Naval Surface Warfare Center (NSWC Crane)
## 300 Highway 361
## Crane, Indiana 47522

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

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

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

| Operation Permit No.: T 101-21308-00005 | |
|---|---|
| Issued by/Original Signed By:<br><br>Nisha Sizemore, Chief<br>Permits Branch<br>Office of Air Quality | Issuance Date: December 2, 2008<br><br>Expiration Date: December 2, 2013 |

First Minor Source Modification No: 101-27811-00005

First Significant Permit Modification No: 101-27854-00005

Second Minor Source Modification No: 101-28252-00005

First Minor Permit Modification No: 101-28267-00005

| Third Minor Source Modification No: 101-28815-00005 | |
|---|---|
| Issued by:<br><br>Tripurari Sinha<br><br>Tripurari P. Sinha, Ph. D., Section Chief<br>Permits Branch<br>Office of Air Quality | Issuance Date: January 28, 2010<br><br>Expiration Date: December 2, 2013 |

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**New Source Performance Standards (NSPS) Requirements [326 IAC 12-1]**
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E.3.2 Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units [40 CFR Part 60, Subpart Dc][326 IAC 12-1]
E.3.3 One Time Deadlines Relating to Small Industrial-Commercial-Institutional Steam Generating Units NSPS [40 CFR Part 60, Subpart Dc][326 IAC 12-1]

**E.4. EMISSIONS UNIT OPERATION CONDITIONS - Flare Manufacturing Process**

**National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements [326 IAC 2-7-5(1)]**
E.4.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants (NESHAP) [326 IAC 20-1] [40 CFR Part 63, Subpart A]
E.4.2 Miscellaneous Organic Chemical Manufacturing NESHAP [40 CFR Part 63, Subpart FFF]

**Certification**
**Emergency Occurrence Report**
**Semi-Annual Natural Gas Fired Boiler Certification**
**Part 70 Quarterly Report**
**Part 70 Quarterly Deviation and Compliance Monitoring Report**

## SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in Conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

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

The Permittee owns and operates a stationary military base where ammunition, rockets, and other military ordnance are manufactured, stored, and disposed.

| | |
|---|---|
| Source Address: | 300 Highway 361, Crane, Indiana 47522 |
| Mailing Address: | Code 0592, Building 3260, 300 Highway 361, Crane, Indiana 47522-5001 |
| General Source Phone Number: | (812) 854-1132 |
| SIC Code: | 9711, 3483 |
| County Location: | Martin |
| Source Location Status: | Attainment for all criteria pollutants |
| Source Status: | Part 70 Operating Permit Program<br>Major Source, under PSD Rules<br>Major Source, Section 112 of the Clean Air Act<br>Not 1 of 28 Source Categories |

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

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

(a) Thirteen (13) abrasive blasting units, consisting of:

(1) CRN-0104-03-23-HH16, located in Building 104, replaced with previously-identified CRN-2171-01-17-DD22 in 2007, with a maximum capacity of 1,000 lbs/yr (0.5 TPY) abrasive used, using a filter system with no identification to control particulate matter emissions, and exhausting to stack CRN-0104-03-23-HH16-S.

(2) CRN-0106-02-23-HH13, located in Building 106, constructed in 1988, with a maximum capacity of 3,000 lbs/yr (1.5 TPY) abrasive used, using a baghouse with no identification to control particulate matter emissions, and exhausting to stacks CRN-0106-02-23-HH13-S1, S2.

(3) CRN-2521-07-02-J17, located in Building 2521, constructed after 1987, with a maximum capacity of 36,036 lbs/yr (18.0 TPY) abrasive used, using a filter system with no identification to control particulate matter emissions, and exhausting to stack CRN-2521-07-02-J17-S.

(4) CRN-2521-08-02-J17, located in Building 2521, constructed after 1987, with a maximum capacity of 36,036 lbs/yr (18.0 TPY) abrasive used, using a filter system with no identification to control particulate matter emission, and exhausting to stack CRN-2521-08-02-J17-S.

(5) CRN-2521-09-2-J17, located in Building 2521, constructed after 1987, with a maximum capacity of 36,036 lbs/yr (18.0 TPY) abrasive used, using a filter system with no identification to control particulate matter emissions, and exhausting to stack CRN-2521-09-2-J17-S.

(6) CRN-3234-14-17-U26, located in Building 3234, constructed in 1993, with a maximum capacity of 36,036 lbs/yr (18.0 TPY) abrasive used, using a filter

system with no identification to control particulate matter emissions, and exhausting to stack CRN-3234-14-17-U26-S.

(7) CRN-0227-03-23-HH12, located in Building 227, constructed before 1991, with a maximum capacity of 3,000 lbs/yr (1.5 TPY) abrasive used, using baghouse with no identification to control particulate matter emissions, and exhausting to stack CRN-0227-03-23-HH12-S.

(8) CRN-3168-03-17-V28, located in Building 3168, constructed in 1988, with a maximum capacity of 1,000 lbs/yr (0.5 TPY) abrasive used, using a filter system with no identification to control particulate matter emissions, and exhausting to stack CRN-3168-03-17-V28-S.

(9) CRN-0041-06-17-V25, located in Building 41, originally constructed in 1993 and modified in 2006, with a maximum capacity of 1,000 lbs/yr (0.5 TPY) abrasive used, using a filter system with no identification to control particulate matter emissions, and exhausting to stack CRN-0041-06,07,08-17-V25-S.

(10) CRN-0041-07-17-V25, located in Building 41, originally constructed in 1993 and modified in 2006, with a maximum capacity of 1,000 lbs/yr (0.5 TPY) abrasive used, using a filter system with no identification to control particulate matter emissions, and exhausting to stack CRN-0041-06,07,08-17-V25-S.

(11) CRN-0041-08-17-V25, located in Building 41, originally constructed in 1993 and modified in 2006, with a maximum capacity of 1,000 lbs/yr (0.5 TPY) abrasive used, using a filter system to control particulate matter emissions, and exhausting to stack CRN-0041-06,07,08-17-V25-S.

(12) One (1) barrel blast system, located in Building 107, identified as CRN-0107-06-23-HH13, constructed in 2005, with a maximum throughput rate of 960 pounds of steel parts per hour and a maximum abrasive usage of 17,875 pounds of steel shots per hour, controlled by a baghouse with no identification, and exhausting through stack ABS1.

(13) One (1) vertical descaling machine, located in Building 107, identified as CRN-0107-07-23-HH13, constructed in 2005, with a maximum throughput rate of 2,500 pounds of steel parts per hour and a maximum abrasive usage of 143,000 pounds of steel shots per hour, controlled by a baghouse with no identification, and exhausting through stack ABS2.

(b) Thirty-three (33) boilers, consisting of:

(1) Cleaver Brooks natural gas fired boiler, identified as CRN-0115-01-23-GG12, located in Building 115, constructed in 1997, with a maximum capacity of 16.75 MMBtu/hr, and exhausting to stack CRN-0115-01-23-GG12-S.

Under NSPS, Subpart Dc, Boiler CRN-0115-01-23-GG12 is considered an affected facility.

(2) Cleaver Brooks natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-0115-03-23-GG12, located in Building 115, constructed in 1985, with a maximum capacity of 6.2 MMBtu/hr, and exhausting to stack CRN-0115-03-23-GG12-S.

(3) Cleaver Brooks natural gas-fired boiler, identified as CRN-0128-01-17-W25, located in Building 128, constructed in 1997, with a maximum capacity of 16.75 MMBtu/hr, and exhausting to stack CRN-0128-01-17-W25-S.

Under NSPS, Subpart Dc, Boiler CRN-0128-01-17-W25 is considered an affected facility.

(4) Cleaver Brooks natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-0128-03-17-W25, located in Building 128, constructed in 1997, with a maximum capacity of 16.75 MMBtu/hr, and exhausting to stack CRN-0128-03-17-W25-S.

Under NSPS, Subpart Dc, Boiler CRN-0128-03-17-W25 is considered an affected facility.

(5) Cleaver Brooks natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-0140-01-17-Y25, located in Building 140, constructed in 1982, with a maximum capacity of 6.2 MMBtu/hr, and exhausting to stack CRN-0140-01-17-Y25-S.

(6) Cleaver Brooks natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-0140-02-17-Y25, located in Building 140, constructed in 1982, with a maximum capacity of 6.2 MMBtu/hr, and exhausting to stack CRN-0140-02-17-Y25-S.

(7) Cleaver Brooks natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-0150-01-17-CC23, located in Building 150, constructed in April 1989, with a maximum capacity of 25.2 MMBtu/hr, and exhausting to stack CRN-0150-01-17-CC23-S.

(8) Cleaver Brooks natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-0150-03-17-CC23, located in Building 150, constructed in April 1989, with a maximum capacity of 25.2 MMBtu/hr, and exhausting to stack CRN-0150-03-17-CC23-S.

(9) Cleaver Brooks natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-0199-01-23-JJ14, located in Building 199, constructed in 1978, with a maximum capacity of 17.5 MMBtu/hr, and exhausting to stack CRN-0199-01-23-JJ14-S.

(10) Cleaver Brooks natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-0199-02-23-JJ14, located in Building 199, constructed in 1978, with a maximum capacity of 17.5 MMBtu/hr, and exhausting to stack CRN-0199-02-23-JJ14-S.

(11) Kewanee natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-1819-01-17-Y23, located in Building 1819, constructed in 1981, with a maximum capacity of 3.35 MMBtu/hr, and exhausting to stack CRN-1819-01-17-Y23-S.

(12) Kewanee natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-1819-02-17-Y23, located in Building 1819, constructed in 1981, with a maximum capacity of 3.35 MMBtu/hr, and exhausting to stack CRN-1819-02-17-Y23-S.

(13) Iron Fireman natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-2692-01-17-W27, located in Building 2692, constructed in 1983, with a maximum capacity of 3.01 MMBtu/hr, and exhausting to stack CRN-2692-01-17-W27-S.

(14) Cleaver Brooks natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-2737-01-12-M41, located in Building 2737, constructed in 1987, with a maximum capacity of 12.5 MMBtu/hr, and exhausting to stack CRN-2737-01-12-M41-S.

(15) Cleaver Brooks natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-2737-02-12-M41, located in Building 2737, constructed in 1987, with a maximum capacity of 12.5 MMBtu/hr, and exhausting to stack CRN-2737-02-12-M41-S.

(16) Cleaver Brooks natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-2737-03-12-M41, located in Building 2737, constructed in 1987, with a maximum capacity of 12.5 MMBtu/hr, and exhausting to stack CRN-2737-03-12-M41-S.

(17) Superior natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-3234-02-17-U26, located in Building 3234, constructed in 1992, with a maximum capacity of 8.4 MMBtu/hr, and exhausting to stack CRN-3234-02-17-U26-S.

(18) Superior natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-3234-03-17-U26, located in Building 3234, constructed in 1992, with a maximum capacity of 8.4 MMBtu/hr, and exhausting to stack CRN-3234-03-17-U26-S.

(19) Johnston natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-0041-02-17-U26, located in Building 41, constructed in 1983, with a maximum capacity of 6.9 MMBtu/hr, and exhausting to stack CRN-0041-02-17-U26-S.

(20) Hurst natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-0041-03-17-U26, located in Building 41, constructed in 2008, with a maximum capacity of 6.9 MMBtu/hr, and exhausting to stack CRN-0041-02-17-U26-S.

(21) Cleaver Brooks natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-0064-01-10-T27, located in Building 64, constructed in 1976, with a maximum capacity of 10.0 MMBtu/hr, and exhausting to stack CRN-0064-01-10-T27-S.

(22) Cleaver Brooks natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-0115-02-23-GG12, located in Building 115, constructed in 1997, with a maximum capacity of 16.75 MMBtu/hr, and exhausting to stack CRN-0115-02-23-GG12-S.

Under NSPS, Subpart Dc, Boiler CRN-0115-02-23-GG12 is considered an affected facility.

(23) Cleaver Brooks natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-0128-02-17-W25, located in Building 128, constructed in 1984, with a maximum capacity of 6.2 MMBtu/hr, and exhausting to stack CRN-0128-02-17-W25-S.

(24) Cleaver Brooks natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-0149-01-10-S30, located in Building 149, constructed in 1980, with a maximum capacity of 6.7 MMBtu/hr, and exhausting to stack CRN-0149-01-10-S30-S.

(25) Cleaver Brooks natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-0149-02-10-S30, located in Building 149, constructed in 1980, with a maximum capacity of 6.7 MMBtu/hr, and exhausting to stack CRN-0149-02-10-S30-S.

(26) Cleaver Brooks natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-0180-01-17-W22, located in Building 180, constructed in 1999, with a maximum capacity of 4.2 MMBtu/hr, and exhausting to stack CRN-0180-01-17-W22-S.

(27) Cleaver Brooks natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-0180-02-17-W22, located in Building 180, constructed in 1999, with a maximum capacity of 4.2 MMBtu/hr, and exhausting to stack CRN-0180-02-17-W22-S.

(28) Kewanee natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-2517-01-10-T21, located in Building 2517, constructed in 1981, with a maximum capacity of 4.85 MMBtu/hr, and exhausting to stack CRN-2517-01-10-T21-S.

(29) Kewanee natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-2517-02-10-T21, located in Building 2517, constructed in 1981, with a maximum capacity of 4.85 MMBtu/hr, and exhausting to stack CRN-2517-02-10-T21-S.

(30) Johnston natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-2523-01-9-K18, located in Building 2523, constructed in 1983, with a maximum capacity of 17.4 MMBtu/hr, and exhausting to stack CRN-2523-01-9-K18-S.

(31) Johnston natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-2523-02-9-K18, located in Building 2523, constructed in 1983, with a maximum capacity of 17.4 MMBtu/hr, and exhausting to stack CRN-2523-02-9-K18-S.

(32) Superior natural gas and/or distillate fuel No. 2-fired boiler, identified as CRN-2674-01-00-0001, located in Building 2674, constructed in 1985, with a maximum capacity of 8.4 MMBtu/hr, and exhausting to stack CRN-2674-01-00-0001-S.

(33) Superior natural gas and/or distillate fuel No. 2-fired boiler, identified as CRN-2674-02-00-0001, located in Building 2674, constructed in 1985, with a maximum capacity of 8.4 MMBtu/hr, and exhausting to stack CRN-2674-02-00-0001-S.

(c) Three (3) carpentry shops, identified as:

(1) CRN-0056-04-10-T21, located in Building 56, with a maximum wood usage of 74,880 board feet per year and a maximum process weight rate of 0.14 tons per hour, equipped with a cyclone for particulate control and exhausting to stack CRN-0056-04-10-T21-S. [40 CFR Part 64]

(2) CRN-0224-02-23-HH12, located in Building 224, with a maximum wood usage of 1,000,000 board feet per year and a maximum process weight rate of 0.69 tons per hour, equipped with a cyclone for particulate control and exhausting to stack CRN-0224-02-23-HH12-S. [40 CFR Part 64]

(3) CRN-2720-04-23-GG12, located in Building 2720, with a maximum wood usage of 14,000 board feet per year and a maximum process weight rate of 0.25 tons per hour, equipped with a cyclone for particulate control and exhausting to stack CRN-2720-04-23-GG12-S.

(d) Twenty-seven (27) paint booths, consisting of:

(1) CRN-0104-01-23-HH16, exhausting to stack CRN-0104-01-23-HH16-S, located in Building 104, constructed in 1983, using a dry filter to control particulate matter emissions.

(2) CRN-0104-02-23-HH16, exhausting to stack CRN-0104-02-23-HH16-S, located in Building 104, constructed in 1983, using a dry filter to control particulate matter emissions.

(3) CRN-0104-03-23-HH16, exhausting to stack CRN-0104-03-23-HH16-F, located in Building 104, approved for construction in 2010, using a dry filter to control particulate matter emissions.

(4) CRN-0107-01-23-HH13, exhausting to stack CRN-0107-01-23-HH13-S, located in Building 107, constructed in 1980, using a dry filter to control particulate matter emissions.

(5) CRN-0107-02-23-HH13, exhausting to stack CRN-0107-02-23-HH13-S, located in Building 107, constructed in 1980, using a dry filter to control particulate matter emissions.

(6) CRN-0107-03-23-HH13, exhausting to stack CRN-0107-03-23-HH13-S, located in Building 107, constructed in 1980, using a dry filter to control particulate matter emissions.

(7) CRN-0107-04-23-HH13, exhausting to stack CRN-0107-04-23-HH13-S, located in Building 107, constructed in 1980, using a water wall to control particulate matter emissions.

(8) CRN-0136-01-17-Z26, exhausting to stack CRN-0136-01-17-Z26-S, located in Building 136, constructed in 1963, using a dry filter to control particulate matter emissions.

(9) CRN-0155-02-17-BB25, exhausting to stack CRN-0155-02-17-BB25-S, located in Building 155, constructed in 1986, using a dry filter to control particulate matter emissions.

(10) CRN-0155-03-17-BB25, exhausting to stack CRN-0155-03-17-BB25-S, located in Building 155, constructed in 1986, using a dry filter to control particulate matter emissions.

(11) CRN-0169-01-24-EE22, exhausting to stack CRN-0169-01-24-EE22-S, located in Building 169, constructed in 1950, using a dry filter to control particulate matter emissions.

(12) CRN-2520-01-17-Y26, exhausting to stack CRN-2520-01-17-Y26-S, located in Building 2520, constructed in 1968, using a dry filter to control particulate matter emissions.

(13) Bomb Finishing Line, with a maximum capacity of thirteen (13) units per hour and Projectile Renovation Operations with a maximum capacity of 120 units per hour, consisting of the following units:

(i) CRN-2728-01-12-N42, exhausting to stack CRN-2728-01-12-N42-S, located in Building 2728, constructed in 1999, using a dry filter to control particulate matter emissions.

(ii) CRN-2728-02-12-N42, exhausting to stack CRN-2728-02-12-N42-S, located in Building 2728, constructed in 1999, using a dry filter to control particulate matter emissions.

(iii) CRN-2728-03-12-N42, exhausting to stack CRN-2728-03-12-N42-S, located in Building 2728, constructed in 1999, using a dry filter to control particulate matter emissions.

(14) CRN-3234-09-17-U26, exhausting to stack CRN-3234-09-17-U26-S, located in Building 3234, constructed in 1994, using a dry filter to control particulate matter emissions.

(15) CRN-3234-10-17-U26, exhausting to stack CRN-3234-10-17-U26-S, located in Building 3234, constructed in 1994, using a dry filter to control particulate matter emissions.

(16) CRN-3234-15-17-U26, exhausting to stack CRN-3234-15-17-U26-S, located in Building 3234, constructed in 1994, using a dry filter to control particulate matter emissions.

(17) CRN-0198-01-23-II15, exhausting to stack CRN-0198-01-23-II15-S, located in Building 198, constructed in 1975, using a dry filter to control particulate matter emissions.

(18) CRN-0227-01-23-HH12, exhausting to stack CRN-0227-01-23-HH12-S, located in Building 227, constructed prior to 1991, using a dry filter to control particulate matter emissions.

(19) CRN-0227-02-23-HH12, exhausting to stack CRN-0227-02-23-HH12-S, located in Building 227, constructed prior to 1991, using a dry filter to control particulate matter emissions.

(20) CRN-2697-01-17-W24, exhausting to stack CRN-2697-01-17-W24-S, located in Building 2697, constructed in 1983, using a dry filter to control particulate matter emissions.

(21) CRN-2805-02-23-GG19, exhausting to stack CRN-2805-02-23-GG19-S, located in Building 2805, constructed in 1995, using a dry filter to control particulate matter emissions.

(22) CRN-2805-03-23-GG19, exhausting to stack CRN-2805-03-23-GG19-S, located in Building 2805, constructed in 2006, using a dry filter to control particulate matter emissions.

(23) CRN-3168-02-17-V28, exhausting to stack CRN-3168-02-17-V28-S, located in Building 3168, constructed in 1988, using a dry filter to control particulate matter emissions.

(24) CRN-0106-03-23-HH13, located in Building 106, constructed in 2005, equipped with four (4) HVLP guns to paint metal vehicles components, with a maximum primer usage of 5.82 lbs/hr and a maximum topcoat usage of 4.8 lbs/hr, using dry filters to control particulate matter emissions, and exhausting through stack PBS2. This paint booth is also equipped with one (1) 1.5 MMBtu/hr natural gas burner for paint curing.

(25) One (1) surface coating booth, identified as CRN-0106-04-23-PBS1, constructed in 2007 and located in Building 106, equipped with four (4) high volume low pressure (HVLP) spray applicators used to coat metal military kits, with a maximum primer usage rate of 0.8 gallons per hour and a maximum topcoat

usage rate of 0.6 gallons per hour, using dry filters to control particulate matter emissions and exhausting to stack PBS1.

None of the paint booth control devices have unit identification numbers.

(e) Open burning/open detonation, constructed/installed before 1950, consisting of:

(1) Open Burning of Ordnance at the Ammunition Burning Ground, identified as CRN-ABG-01-19-DD43, with a maximum usage of 2.3 MMlb/yr (1,150 tons/yr) of Dunnage; 0.64 MMlb/yr (320 tons/yr) of Explosive; 4.7 MMlb/yr (2,350 tons/yr) of Propellant.

(2) Open Detonation of Ordnance at the Demolition Range and the Surveillance Function Test Range, identified as CRN-DR/SFTR-01-24-KK21, with a combined maximum usage of 0.13 MMlb/yr (65 tons/yr) of Dunnage; 1.6 MMlb/yr (800 tons/yr) of Explosive; 0.52 MMlb/yr (260 tons/yr) of Propellant.

(3) Open Burning of Ordnance at the Old Rifle Range, identified as CRN-ORR-01-24-JJ24, with a maximum usage of 0.15 MMlb/yr (75 tons/yr) of Dunnage; 0.032 MMlb/yr (16 tons/yr) of Explosive; 0.012 MMlb/yr (6 tons/yr) of Propellant.

(4) Fast and Slow Cookoff at the Ordnance Test Area, identified as CRN-OTA-01-29-WW18, with a maximum usage of 10,000 units of various ordnances per year.

(f) Mixing and pouring equipment in Building 200 used as a plastic bonded explosive line, constructed in 1984, consisting of mixing and pouring operations, with a maximum process weight rate of 214 pounds per hour, using a carbon adsorption system with a wet scrubber to control particulate matter emissions.

(g) Explosive bomb loading operations consisting of:

(1) screening and weighing aluminum powder in Building 2714, constructed in 1987, using a baghouse for particulate control, with a maximum process weight rate of 161.5 pounds per hour;

(2) screening and weighing TNT in Building 153, constructed in 1987, using a wet scrubber for particulate control, with a maximum process weight rate of 641.8 pounds per hour; and

(3) melting and mixing aluminum powder and TNT in Building 152, constructed in 1987, using a wet scrubber for particulate control, with a maximum process weight rate of 8,032.5 pounds per hour.

(4) One (1) aluminum powder sieve, approved for construction in 2009, identified as CRN-0155-05-A1 and located in Building 155, with a total throughput of 20 lbs aluminum powder per hour using a baghouse, identified as CRN -155-05A1-BH1 to control particulate emissions exhausting through stack CRN 0155-05A1-BHI.

(h) One natural gas-fired rotary kiln furnace in Building 69, used for white phosphorous conversion to phosphoric acid, constructed in 1983, with a maximum process weight rate of 480 pounds per hour, and equipped with an integral variable throat venturi scrubber for particulate control.

(i) Service Station (Gasoline/Diesel Dispensing), identified as CRN-3280-04-17-X23, located in Building 3280, with a maximum usage of 350,000 gallons of unleaded gasoline per year, and 350,000 gallons of diesel per year.

(1) Two (2) above ground vertical fixed-roof cone tanks, storing unleaded gasoline, constructed in 1995, identified as:

(A) CRN-3280-01-17-X23, located in Building 3280, with a maximum capacity of 11,600 gallons (43.9 m3), and equipped with a vapor recovery system of 99.9+% removal efficiency;

(B) CRN-3280-02-17-X23, located in Building 3280, with a maximum capacity of 11,600 gallons (43.9 m3), and equipped with a vapor recovery system of 99.9+% removal efficiency.

(j) Testing of fuses, boosters, other explosive devices and dissection of batteries, consisting of:

(1) One (1) containment chamber in Building 2167, constructed in 1986, used to test burn pyrotechnic items, with a maximum process weight rate of 0.66 pounds per hour.

(2) Ten (10) test cells in Building 3235, constructed in 1991, used to test lithium batteries, with a maximum throughput of 149 batteries per year, using a vertical packed-bed tower to control particulate matter emissions.

(3) One (1) battery dissection fume hood in Building 3235, permitted to construct in 2007, used to dissect batteries, using no control, with a maximum throughput of 730 batteries per year.

(4) One (1) containment chamber in Building 142, constructed in 1995, used to test detonation of fuses, boosters and other explosive devices, with a maximum process weight rate of 0.05 pounds per hour, using a baghouse to control particulate matter emissions.

(5) One (1) flare testing operation in Building 2869, constructed in 1977, identified as CRN-2869-01-02-V01; using a baghouse for control and having a combined maximum process weight rate less than 100 pounds per hour.

(5) One (1) flare testing operation in Building 366, constructed in 1988, identified as CRN-0366-01-02-V01;both using a baghouse for control and having a combined maximum process weight rate less than 100 pounds per hour.

(k) One (1) contained detonation chamber, identified as P01, constructed 2001, located in Building 3339, with a maximum capacity of 7,500 pounds per hour gross weight of munitions, 750 pounds per hour net explosive weight (NEW), equipped with one (1) baghouse for particulate control, and exhausting to stack S01.

(l) One (1) mobile plasma treatment system (MPTS), identified as P02, constructed in 2002, located in Building 3345, with a maximum capacity of 3,600 pounds per hour gross weight of explosives, 500 pounds per hour net explosive weight (NEW), equipped with one (1) afterburner for VOC and CO control, one (1) semi-dry scrubber for HCl and PM control, and one (1) Selective Catalytic Reduction (SCR) unit for $NO_x$ control and exhausting at stack S02. The semi-dry scrubber is composed of an evaporative cooler, sodium bicarbonate injection, and a pulse-jet baghouse.

Under NESHAP, Subpart EEE, the mobile plasma treatment system (MPTS) (P02) is considered a new affected facility under 40 CFR 63.1206 (a) (1) (i) (B) and an existing affected facility under 40 CFR 63.1206 (a) (1) (ii) (B).

(m) One (1) diesel-fueled 4160-volt, 1000 kW generator which powers the MPTS, constructed in 2002, exhausting at stack S03.

(n) One (1) APE 1236 rotary kiln incinerator, identified as P03, constructed in 2003, located in Building 3343, used to deactivate (combust) the munitions and associated components, with a maximum feed rate of 240 pounds of net explosive weight (NEW) per hour and a maximum heat input rate of 3.0 MMBtu/hr. The waste stream vents through one (1) cyclone (identified as C05, for PM control), one (1) 8.0 MMBtu/hr natural gas-fired afterburner (identified as C06, for VOC and CO control), and one (1) baghouse (identified as C07, for PM control) and exhausts through stack S03.

Under NESHAP, Subpart EEE, the APE 1236 rotary kiln incinerator (P03) is considered a new affected facility under 40 CFR 63.1206 (a) (1) (i) (B) and an existing affected facility under 40 CFR 63.1206 (a) (1) (ii) (B).

(o) One (1) flare manufacturing process located in Buildings 2504 and 145, constructed in 2002, with a maximum manufacturing capacity of 180 pounds of magnesium teflon viton (MTV) compound per day.

(p) One (1) flare manufacturing process, located in Building 198, constructed in 2002, with a maximum manufacturing capacity of 150 pounds of magnesium teflon viton (MTV) compound per day, discharging to Stacks 1 through 11.

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

This stationary source also includes the following insignificant activities:

(a) Fuel oil-fired combustion sources with heat inputs less than two million (2,000,000) Btu per hour and firing fuel containing less than five-tenths (0.5) percent sulfur by weight:

(1) Two (2) 1.3 MMBtu/hr natural gas/fuel oil-fired boilers, identified as Cleaver Brooks CRN-0180-01-17-W22 and CRN-0180-02-17-W22, constructed in 1999, located in Building 180 [326 IAC 6-2-4]

(2) One (1) 3.75 MMBtu/hr natural gas/#2 fuel oil boiler, identified as CRN-0199-03-23-JJ14, constructed in 2008 and located in Building 199 [326 IAC 6-2-4].

(b) Natural gas-fired combustion sources with inputs less than ten million (10,000,000) Btu per hour, identified as:

(1) Natural gas-fired boilers, existing and in operation before September 21, 1983, located in the following buildings:

(i) one boiler in each of the following buildings: 1, 2, 4, 7,14, 18, 38, 45, 181, 224, 252, 300, 479, 1817, 1909, 2037, 2038, 2044, 2059, 2074, 2167, 2506, 2516, 2517, 2693, 2720, 2721, 2748, 2749, 2889, 2931, 2987, 2993, 3006 [326 IAC 6-2-3]

(ii) two boilers in each of the following buildings: 2521 [326 IAC 6-2-3]

(iii) One (1) 1.63 MMBtu natural gas-fired boiler, constructed in July 1983, located in Building 74 [326 IAC 6-2-3]

(2) Natural gas-fired boilers, constructed after September 21, 1983, located in the following buildings:

(i) one boiler in each of the following buildings: 1, 5, 7, 8, 10, 34, 36, 40, 47, 66, 74, 77, 105, 128, 180, 363, 365, 366, 966, 1141, 1149, 2036, 2045, 2084, 2518, 2521,2692, 2694, 2807, 2902, 2963, 2995, 3149, 3173, 3188, 3233, 3234, 3235, 3239, 3243, 3250, 3284, 3319, 3324, 3325, 3333, 3334, 3339, 3348, 3422 [326 IAC 6-2-4]

(ii) two boilers in each of the following buildings: 39, 180, 364, 2035, 2674, 2906, 3168, 3285, 3330C, 3373, 3395 [326 IAC 6-2-4]

(iii) three boilers in each of the following buildings: 3287 and 3291 [326 IAC 6-2-4]

(iv) four boilers in each of the following buildings: 3241, 3251, 3330N, 3330S [326 IAC 6-2-4]

(c) One (1) diesel-fired emergency generator, located at Building 10, with a maximum capacity of 268 horsepower, installed in 2007 with a manufacturer's date of after April 1, 2006, and a displacement of less than 10 liters per cylinder.

Under NSPS, Subpart IIII, the 268 horsepower diesel-fired emergency generator is considered an affected facility.

(d) Degreasing operations that do not exceed one hundred forty-five (145) gallons per twelve (12) months, except if subject to 326 IAC 20-6 [326 IAC 8-3-3, 326 IAC 8-3-5].

(e) The following equipment related to manufacturing activities not resulting in the emission of HAP's: brazing, cutting torches, soldering, and welding.

(f) Activities related to routine fabrication, maintenance, and repair of buildings, structures, equipment, or vehicles at the source where air emissions from those activities would not be associated with any commercial production process, including the following: brazing, soldering, or welding operations and associated equipment.

(g) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors, and electrostatic precipitators with a design grain loading of less than or equal to three one-hundredths (0.03) grains per actual cubic foot and a gas flow rate less than or equal to four thousand (4,000) actual cubic feet per minute, including the following: deburring, buffing, polishing, pneumatic conveying, and woodworking operations.

(h) Propane or liquefied petroleum gas, or butane-fired combustion sources with heat inputs less than six million (6,000,000) Btu per hour.

(i) Equipment powered by internal combustion engines of less than 500,000 Btu/hour capacity, except where total capacity of equipment operated by one stationary source exceeds 2,000,000 Btu/hour. Each internal combustion engine was installed prior to July 11, 2005 and has not been modified since installation.

(j) A gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day, such as filling of tanks, locomotives, automobiles, having a storage tank of less than 10,500 gallon capacity.

(k) A petroleum fuel, other than gasoline, dispensing facility, having a storage tank of less than 10,500 gallon capacity, and dispensing less than 230,000 gallons per month.

(l) Storage tanks less than one thousand (1,000) gallons in capacity with annual throughputs less than twelve thousand (12,000) gallons.

(m) Application of oils, greases, lubricants or other nonvolatile materials applied as temporary protective coatings.

(n) Machining where an aqueous cutting coolant continuously floods the machine interface.

(o) Solvent recycling systems with less than 100 gallon batch capacity.

(p) Activities associated with the treatment of wastewater streams with an oil and grease content less than 1% by volume.

(q) Activities associated with the transportation and treatment of sanitary sewage, provided discharge to the treatment plant is under the control of the owner/operator, that is, an on site sewage treatment facility.

(r) Natural draft cooling towers circulating less than or equal to 340,000 gallons per day.

(s) Quenching operations used with heat treating processes.

(t) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.

(u) Paved and unpaved roads and parking lots with public access [326 IAC 6-4].

(v) Asbestos abatement projects regulated by 326 IAC 14-10.

(w) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks and fluid handling equipment.

(x) Blowdown for any of the following: sight glass, boiler, compressors, pumps and cooling tower.

(y) On-site fire and emergency response training approved by the department.

(z) Gasoline generators not exceeding 110 hp.

(aa) Diesel generators not exceeding 1800 hp.

(bb) Natural gas turbines not exceeding 16,000 hp.

(cc) Stationary fire pumps.

(dd) Filter or coalescer media changeout.

(ee) A laboratory as defined in 326 IAC 2-7-1(21)(D).

(ff) Activities with emissions equal to or less than thresholds:

Lead (Pb) = 0.6 ton/year or 3.29 lbs/day
Carbon Monoxide (CO) = 25 lbs/day
Sulfur Dioxide ($SO_2$) = 5 lbs/hour or 25 lbs/day
Particulate matter (PM) = 5 lbs/hour or 25 lbs/day
Nitrogen Oxides (NOx) = 5 lbs/hour or 25 lbs/day
Volatile Organic Compounds (VOC) = 3 lbs/hour or 15 lbs/day

(1) Alphos tank, located in Building 2521;

(2) Brown oxide line, located in Building 38;

(3) Bubble tester. Located in Building 2931;

(4) Coating, phosphorous, located in Building 1884;

(5) Curing room, located in Building 3148;

(6) Four (4) detonations cells, located in Building 142;

(7) Electrical discharge, located in Building 198;

(8) Environmental chamber, located in Building 2167;

(9) Explosives chamber, located in Building 142;

(10) Explosives mixing, located in Building 200;

(11) Explosives molding, located in Building 126;

(12) Heating oil bath, located in Building 39;

(13) Two (2) hood, fumes, located in 2940;

(14) Hood, vent, located in Building 38;

(15) Infrared dry, located in Building 2036;

(16) Three (3) injection molders, located in Building 198;

(17) IR Heater, located in Building 38;

(18) Oven, located in Building 2940;

(19) Three (3) drying ovens, located in Building 3234;

(20) Laboratory oven, located in Building 109;

(21) Fugitive emissions from painting;

(22) Passivation process, located in Building 1884;

(23) Plating lines A, B, and C, located in Building 3234;

(24) Rust inhibitor, located in Building 1884;

(25) Solvent hand wiping, located in Building 155;

(26) Miscellaneous solvent usage in Building 2728;

(27) Fifty (50) above ground storage tanks;

(28) Twenty-nine (29) underground storage tanks;

(29) One (1) fuel storage tank, located at Building 2760;

(30) Paint stripper, resistant, located in Building 38;

(31) Tank, brighteners, located at Building 1884;

(32) Washer, roller, located in Building 18;

(33) Washout unit, located in Building 18;

(34) Six (6) Underground Storage Tanks, identified as:

(i) CRN-0003-02-17-U21;

(ii) CRN-2737-06-12-M41;

(iii) CRN-2737-07-12-M41;

(iv) CRN-2984-02-17-W22;

(v) CRN-2984-03-17-W22; and

(vi) CRN-3149-02-16-DD12.

(35) One hundred and fifty-eight electric or steam powered air compressors:

(36) One (1) Dispo Spray Booth, Model L130, with a maximum capacity of nine (9) twelve (12) ounce paint cans per month, with no overspray and used for repairing small microwave warfare components consisting of aluminum and glass.

(37) One (1) closed loop conversion process, used to convert ammonium picrate to picric acid with a maximum production capacity of 7 tons of picric acid per day, and exhausting to stacks S2 and V1.

(38) One (1) strand burner, located in Building 142, used for a maximum of 25 tests of differing materials per day, with no pollution control.

(39) One (1) touch up paint booth, identified as CRN-0155-04-17-BB25, located in Building 155 and using a dry filter to control particulate emissions.

(41) One (1) steam kettle for the refinement of trinitrotoluene (TNT), approved for construction in 2009, identified as CRN-0160-01-A, with a maximum batch throughput of 120 lb TNT per hour and a total throughput of 2,400 lb TNT per day, controlled by a wet scrubber, identified as Scrubber 1, exhausting to stack S-1.

(42) One (1) steam kettle for the refinement of trinitrotoluene (TNT), approved for construction in 2009, identified as CRN-0160-02-B, with a maximum batch throughput of 120 lb TNT per hour and a total throughput of 2,400 lb TNT per day, controlled by a wet scrubber, identified as Scrubber 2, exhausting to stack S-2.

(gg) Emissions from research and development activities as defined in 326 IAC 2-7-1(21)(E): One (1) experimental catalytic converter equipped diesel-fired generator, located at the test platform at Building 3235.

(hh) One (1) C-4 extruder process line, located in Building 2172, with a maximum manufacturing capacity of forty (40) 1.2 pound C-4 blocks per minute.

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

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

(a) It is a major source, as defined in 326 IAC 2-7-1(22);

(b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

## SECTION B GENERAL CONDITIONS

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

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-7) shall prevail.

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

(a) This permit, T101-21308-00005, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.

(b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

### B.3 Term of Conditions [326 IAC 2-1.1-9.5]

Notwithstanding the permit term of a permit to construct, a permit to operate, or a permit modification, any condition established in a permit issued pursuant to a permitting program approved in the state implementation plan shall remain in effect until:

(a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or

(b) the emission unit to which the condition pertains permanently ceases operation.

### B.4 Enforceability [326 IAC 2-7-7][IC 13-17-12]

Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

### B.5 Severability [326 IAC 2-7-5(5)]

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

### B.6 Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]

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

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

(a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34). Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.

(b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.8 Certification [326 IAC 2-7-4(f)][326 IAC 2-7-6(1)][326 IAC 2-7-5(3)(C)]

(a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by the "responsible official" of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

(b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.

(c) A "responsible official" is defined at 326 IAC 2-7-1(34).

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

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

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

and

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

(b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

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

(1) The appropriate identification of each term or condition of this permit that is the basis of the certification;

(2) The compliance status;

(3) Whether compliance was continuous or intermittent;

(4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); and

(5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ may require to determine the compliance status of the source.

The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

(a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs) 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.

(b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

B.11 Emergency Provisions [326 IAC 2-7-16]

(a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation.

(b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:

(1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;

(2) The permitted facility was at the time being properly operated;

(3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;

(4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, and Southwest Regional Office within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance and Enforcement Branch), or
Telephone Number: 317-233-0178 (ask for Compliance and Enforcement Branch)
Facsimile Number: 317-233-6865
Southwest Regional Office Telephone Number: (812) 380-2305
Southwest Regional Office Facsimile Number: (812) 380-2304

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

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

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

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

(A) A description of the emergency;

(B) Any steps taken to mitigate the emissions; and

(C) Corrective actions taken.

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

(6) The Permittee immediately took all reasonable steps to correct the emergency.

(c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.

(d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.

(e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(9) be revised in response to an emergency.

(f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.

(g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

(h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report. Any emergencies that have been previously reported pursuant to paragraph (b)(5) of this condition and certified by the “Responsible Official” need only be referenced by the date of the original report.

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

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

defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7 or for applicable requirements for which a permit shield has been granted.

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

(b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.

(c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.

(d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:

(1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;

(2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;

(3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and

(4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.

(e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).

(f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]

(g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(8)]

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

(a) All terms and conditions of permits established prior to T101-21308-00005 and issued pursuant to permitting programs approved into the state implementation plan have been either:

(1) incorporated as originally stated,

(2) revised under 326 IAC 2-7-10.5, or

(3) deleted under 326 IAC 2-7-10.5.

(b) Provided that all terms and conditions are accurately reflected in this permit, all previous registrations and permits are superseded by this Part 70 operating permit.

B.14 Termination of Right to Operate [326 IAC 2-7-10][326 IAC 2-7-4(a)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-7-3 and 326 IAC 2-7-4(a).

B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]

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

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

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)][326 IAC 2-7-8(a)][326 IAC 2-7-9]

(a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:

(1) That this permit contains a material mistake.

(2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.

(3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]

(c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]

(d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

B.17 Permit Renewal [326 IAC 2-7-3][326 IAC 2-7-4][326 IAC 2-7-8(e)]

(a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Request for renewal shall be submitted to:

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

(b) A timely renewal application is one that is:

(1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and

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

(c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.18 Permit Amendment or Modification [326 IAC 2-7-11][326 IAC 2-7-12]

(a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.

(b) Any application requesting an amendment or modification of this permit shall be submitted to:

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

Any such application shall be certified by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

B.19 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)] [326 IAC 2-7-12(b)(2)]

(a) No Part 70 permit revision shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.

(b) Notwithstanding 326 IAC 2-7-12(b)(1) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

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

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

(1) The changes are not modifications under any provision of Title I of the Clean Air Act;

(2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;

(3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);

(4) The Permittee notifies the:

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

and

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

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

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

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

(b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:

(1) A brief description of the change within the source;

(2) The date on which the change will occur;

(3) Any change in emissions; and

(4) Any permit term or condition that is no longer applicable as a result of the change.

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

(c) Emission Trades [326 IAC 2-7-20(c)]
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).

(d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAQ, or U.S. EPA is required.

(e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.21 Source Modification Requirement [326 IAC 2-7-10.5]

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

B.22 Inspection and Entry [326 IAC 2-7-6][IC 13-14-2-2][IC 13-30-3-1][IC 13-17-3-2]

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

(a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

(b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy any records that must be kept under the conditions of this permit;

(c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

(d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and

(e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.23 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

(a) The Permittee must comply with the requirements of 326 IAC 2-7-11 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.

(b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

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

The application which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

B.24 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)][326 IAC 2-1.1-7]

(a) The Permittee shall pay annual fees to IDEM, OAQ within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.

(b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.

(c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.25 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314] [326 IAC 1-1-6]

For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether the Permittee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.

Entire Source

**Emission Limitations and Standards [326 IAC 2-7-5(1)]**

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

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

C.2 Opacity [326 IAC 5-1]

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

(a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

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

C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]

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

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

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

C.5 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2 (4) is not federally enforceable.

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

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

C.7 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

The Permittee shall comply with the applicable requirements of 326 IAC 14-10, 326 IAC 18, and 40 CFR 61.140.

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

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

(a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

**Compliance Requirements [326 IAC 2-1.1-11]**

C.9 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U.S. EPA.

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

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

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance or ninety (90) days of initial start-up, whichever is later. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

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

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date.
The notification which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

C.11 Maintenance of Continuous Emission Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]

(a) The Permittee shall install, calibrate, maintain, and operate all necessary continuous emission monitoring systems (CEMS) and related equipment.

(b) In the event that a breakdown of a continuous emission monitoring system occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem.

(c) Whenever a continuous emission monitor other than an opacity monitor is malfunctioning or will be down for calibration, maintenance, or repairs for a period of four (4) hours or more, a calibrated backup CEMS shall be brought online within four (4) hours of shutdown of the primary CEMS, and shall be operated until such time as the primary CEMS is back in operation.

(d) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a continuous emission monitoring system pursuant to 40 CFR Part 63, Subpart EEE.

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

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

C.13 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

(a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.

(b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

**Corrective Actions and Response Steps [326 IAC 2-7-5][326 IAC 2-7-6]**

C.14 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

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

(a) The Permittee shall maintain the most recently submitted written emergency reduction plans (ERPs) consistent with safe operating procedures.

(b) Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.15 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68]

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

C.16 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]

(a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.

(b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:

(1) initial inspection and evaluation;

(2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or

(3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.

(c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:

(1) monitoring results;

(2) review of operation and maintenance procedures and records; and/or

(3) inspection of the control device, associated capture system, and the process.

(d) Failure to take reasonable response steps shall be considered a deviation from the permit.

(e) The Permittee shall maintain the following records:

(1) monitoring data;

(2) monitor performance data, if applicable; and

(3) corrective actions taken.

C.17 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5][326 IAC 2-7-6]

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

(b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.

(c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

C.18 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6]

(a) Pursuant to 326 IAC 2-6-3(a)(1), the Permittee shall submit by July 1 of each year an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:

(1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);

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

The statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue
MC 61-50 IGCN 1003
Indianapolis, Indiana 46204-2251

The emission statement does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

C.19 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [326 IAC 2-2] [326 IAC 2-3]

(a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

(b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance or ninety (90) days of initial start-up, whichever is later.

(c) If there is a reasonable possibility (as defined in 40 CFR 51.165(a)(6)(vi)(A), 40 CFR 51.165 (a)(6)(vi)(B), 40 CFR 51.166 (r)(6)(vi)(a), and/or 40 CFR 51.166 (r)(6)(vi)(b)) that a "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(ll)) at an existing emissions unit other

than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a "major modification" (as defined in 326 IAC 2-2-1 (ee) and/or 326 IAC 2-3-1(z)) may result in a significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1 (rr) and/or IAC 2-3-1(mm)), the Permittee shall comply with following:

(1) Before beginning actual construction of the "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(ll)) at an existing emissions unit, document and maintain the following records:

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

(d) If there is a reasonable possibility (as defined in 40 CFR 51.165(a)(6)(vi)(A) and/or 40 CFR 51.166 (r)(6)(vi)(a)) that a "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(ll) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a "major modification" (as defined in 326 IAC 2-2-1(ee) and/or 326 IAC 2-3-1(z)) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(rr) and/or 326 IAC 2-3-1(mm)), the Permittee shall comply with the following:

(1) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emissions unit identified in (1)(B) above; and

(2) Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.

C.20 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2] [326 IAC 2-3]

(a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

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

(c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

(d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(e) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

(f) If the Permittee is required to comply with the recordkeeping provisions of (d) in Section C - General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1 (ll) at an existing emissions unit, and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ:

(1) The annual emissions, in tons per year, from the project identified in (c)(1) in Section C - General Record Keeping Requirements exceed the baseline actual emissions, as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(i), by a significant amount, as defined in 326 IAC 2-2-1(xx) and/or 326 IAC 2-3-1(qq), for that regulated NSR pollutant, and

(2) The emissions differ from the preconstruction projection as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(ii).

(g) The report for project at an existing emissions unit shall be submitted within sixty (60) days after the end of the year and contain the following:

(1) The name, address, and telephone number of the major stationary source.

(2) The annual emissions calculated in accordance with (d)(1) and (2) in Section C - General Record Keeping Requirements.

(3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3) and/or 326 IAC 2-3-2 (c) (3).

(4) Any other information that the Permittee deems fit to include in this report.

Reports required in this part shall be submitted to:

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

(h) The Permittee shall make the information required to be documented and maintained in accordance with (c) in Section C - General Record Keeping Requirements available for review upon a request for inspection by IDEM, OAQ. The general public may request this information from the IDEM, OAQ under 326 IAC 17.1.

**Stratospheric Ozone Protection**

C.21 Compliance with 40 CFR 82 and 326 IAC 22-1

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

(a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.

(b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.

(c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

## SECTION D.1 FACILITY OPERATION CONDITIONS

**Emission Unit Description**

(a) Thirteen (13) abrasive blasting units, consisting of:

(1) CRN-0104-03-23-HH16, located in Building 104, replaced with previously-identified CRN-2171-01-17-DD22 in 2007, with a maximum capacity of 1,000 lbs/yr (0.5 TPY) abrasive used, using a filter system to control particulate matter emissions, and exhausting to stack CRN-0104-03-23-HH16-S.

(2) CRN-0106-02-23-HH13, located in Building 106, constructed in 1988, with a maximum capacity of 3,000 lbs/yr (1.5 TPY) abrasive used, using a baghouse to control particulate matter emissions, and exhausting to stacks CRN-0106-02-23-HH13-S1, S2.

(3) CRN-2521-07-02-J17, located in Building 2521, constructed after 1987, with a maximum capacity of 36,036 lbs/yr (18.0 TPY) abrasive used, using a filter system to control particulate matter emissions, and exhausting to stack CRN-2521-07-02-J17-S.

(4) CRN-2521-08-02-J17, located in Building 2521, constructed after 1987, with a maximum capacity of 36,036 lbs/yr (18.0 TPY) abrasive used, using a filter system to control particulate matter emission, and exhausting to stack CRN-2521-08-02-J17-S.

(5) CRN-2521-09-2-J17, located in Building 2521, constructed after 1987, with a maximum capacity of 36,036 lbs/yr (18.0 TPY) abrasive used, using a filter system to control particulate matter emissions, and exhausting to stack CRN-2521-09-2-J17-S.

(6) CRN-3234-14-17-U26, located in Building 3234, constructed in 1993, with a maximum capacity of 36,036 lbs/yr (18.0 TPY) abrasive used, using a filter system to control particulate matter emissions, and exhausting to stack CRN-3234-14-17-U26-S.

(7) CRN-0227-03-23-HH12, located in Building 227, constructed before 1991, with a maximum capacity of 3,000 lbs/yr (1.5 TPY) abrasive used, using baghouse to control particulate matter emissions, and exhausting to stack CRN-0227-03-23-HH12-S.

(8) CRN-3168-03-17-V28, located in Building 3168, constructed in 1988, with a maximum capacity of 1,000 lbs/yr (0.5 TPY) abrasive used, using a filter system to control particulate matter emissions, and exhausting to stack CRN-3168-03-17-V28-S.

(9) CRN-0041-06-17-V25, located in Building 41, originally constructed in 1993 and modified in 2006, with a maximum capacity of 1,000 lbs/yr (0.5 TPY) abrasive used, using a filter system with no identification to control particulate matter emissions, and exhausting to stack CRN-0041-06,07,08-17-V25-S.

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

**SECTION D.1 FACILITY OPERATION CONDITIONS (CONTINUED)**

**Emission Unit Description**

(10) CRN-0041-07-17-V25, located in Building 41, originally constructed in 1993 and modified in 2006, with a maximum capacity of 1,000 lbs/yr (0.5 TPY) abrasive used, using a filter system with no identification to control particulate matter emissions, and exhausting to stack CRN-0041-06,07,08-17-V25-S.

(11) CRN-0041-08-17-V25, located in Building 41, originally constructed in 1993 and modified in 2006, with a maximum capacity of 1,000 lbs/yr (0.5 TPY) abrasive used, using a filter system to control particulate matter emissions, and exhausting to stack CRN-0041-06,07,08-17-V25-S.

(12) One (1) barrel blast system, located in Building 107, identified as CRN-0107-06-23-HH13, constructed in 2005, with a maximum throughput rate of 0.48 tons of steel parts per hour and a maximum abrasive usage of 17,875 pounds of steel shots per hour, controlled by a baghouse, and exhausting through stack ABS1.

(13) One (1) vertical descaling machine, located in Building 107, identified as CRN-0107-07-23-HH13, constructed in 2005, with a maximum throughput rate of 1.25 tons of steel parts per hour and a maximum abrasive usage of 143,000 pounds of steel shots per hour, controlled by a baghouse, and exhausting through stack ABS2.

(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 2-7-5(1)]**

D.1.1 Particulate Matter Emissions Limitations [326 IAC 6-3-2]

(a) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate matter (PM) emissions from following abrasive blasting units:

(1) CRN-0106-02-23-HH13, located in Building 106;
(2) CRN-2521-08-02-J17, located in Building 2521;
(3) CRN-2521-09-02-J17, located in Building 2521;
(4) CRN-3234-14-17-U26, located in Building 3234;
(5) CRN-3168-03-17-V28, located in Building 3168;

shall not exceed 0.551 pounds per hour when operating at a process weight rate less than 100 pounds per hour.

(b) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate matter (PM) emissions from the abrasive blasting units shall not exceed the limitations in the table below:

| Unit ID | Unit Description | Maximum Throughput Rate (tons/hr) | Particulate Emission Limit (lbs/hr) |
|---|---|---|---|
| CRN-0107-06-23-HH13 | Barrel Blast System | 0.48 | 2.51 |
| CRN-0107-07-23-HH13 | Vertical Descaling Machine | 1.25 | 4.76 |

The pounds per hour limitations were calculated with the following equation:

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

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

D.1.2 PSD Minor Limits [326 IAC 2-2]

In order to make the requirements of 326 IAC 2-2 (PSD) not applicable, the Permittee shall comply with PM/PM-10 emission limits listed in the table below:

| Unit ID | Unit Description | PM Emission Limit (lbs/hr) | PM-10 Emission Limit (lbs/hr) |
|---|---|---|---|
| CRN-0107-06-23-HH13 | Barrel Blast System | 1.00 | 0.50 |
| CRN-0107-07-23-HH13 | Vertical Descaling Machine | 4.50 | 2.80 |

With the above limits, the emissions from the modification in 2005 are limited to less than 25 tons per year for PM and less than 15 tons per year for PM10. Therefore, the requirements of 326 IAC 2-2 (PSD) are not applicable.

D.1.3 Minor Source Modifications [326 IAC 2-7-10.5(d)]

Pursuant to 326 IAC 2-7-10.5(d)(4)(C) (Minor Source Modifications) and Minor Source Modification No.: 101-21188-00005, issued on June 29, 2005, the baghouses for the barrel blast system (CRN-0107-06-23-HH13) and the vertical descaling machine (CRN-0107-07-23-HH13) shall comply with the following limits when the barrel blast system or the vertical descaling machine is in operation:

(a) At least 99% control efficiency; and

(b) No visible emissions.

D.1.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section C - Preventive Maintenance Plan, of this permit, is required for the barrel blast system and the vertical descaling machine and their control devices.

**Compliance Determination Requirements**

D.1.5 Particulate Matter (PM and PM-10) Control

(a) In order to comply with Conditions D.1.1, D.1.2, and D.1.3, the filter systems and baghouses for particulate (PM and PM-10) control shall be in operation at all times the abrasive blasting operations are in use and the Permittee shall operate the control devices in accordance with manufacturer's specifications.

(b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

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

D.1.6 Visible Emissions Notations

(a) Visible emission notations of the stack exhausts for stacks ABS1 and ABS2, for the barrel blast system and the vertical descaling machine, shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.1.7 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouses used in conjunction with the barrel blast system and the vertical descaling machine, once per day when the barrel blast system or the vertical descaling machine is in operation. When for any one reading, the pressure drop across the baghouses is outside the normal range of 2.0 and 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

D.1.8 Broken Bag or Filter System Failure Detection

(a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

(b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

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

D.1.9 Record Keeping Requirements

(a) To document compliance with Condition D.1.6, the Permittee shall maintain a daily record of visible emission notations of stacks ABS1 and ABS2 for the barrel blast system and the vertical descaling machine. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of a visible emission notation (e.g. the process did not operate that day).

(b) To document compliance with Condition D.1.7, the Permittee shall maintain a daily record of the pressure drop across the baghouses controlling the barrel blast system and the vertical descaling machine. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).

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

**Emission Unit Description**

(b) Thirty-three (33) boilers, consisting of:

(1) Cleaver Brooks natural gas fired boiler, identified as CRN-0115-01-23-GG12, located in Building 115, constructed in 1997, with a maximum capacity of 16.75 MMBtu/hr, and exhausting to stack CRN-0115-01-23-GG12-S.

Under NSPS, Subpart Dc, Boiler CRN-0115-01-23-GG12 is considered an affected facility.

(2) Cleaver Brooks natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-0115-03-23-GG12, located in Building 115, constructed in 1985, with a maximum capacity of 6.2 MMBtu/hr, and exhausting to stack CRN-0115-03-23-GG12-S.

(3) Cleaver Brooks natural gas-fired boiler, identified as CRN-0128-01-17-W25, located in Building 128, constructed in 1997, with a maximum capacity of 16.75 MMBtu/hr, and exhausting to stack CRN-0128-01-17-W25-S.

Under NSPS, Subpart Dc, Boiler CRN-0128-01-17-W25 is considered an affected facility.

(4) Cleaver Brooks natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-0128-03-17-W25, located in Building 128, constructed in 1997, with a maximum capacity of 16.75 MMBtu/hr, and exhausting to stack CRN-0128-03-17-W25-S.

Under NSPS, Subpart Dc, Boiler CRN-0128-03-17-W25 is considered an affected facility.

(5) Cleaver Brooks natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-0140-01-17-Y25, located in Building 140, constructed in 1982, with a maximum capacity of 6.2 MMBtu/hr, and exhausting to stack CRN-0140-01-17-Y25-S.

(6) Cleaver Brooks natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-0140-02-17-Y25, located in Building 140, constructed in 1982, with a maximum capacity of 6.2 MMBtu/hr, and exhausting to stack CRN-0140-02-17-Y25-S.

(7) Cleaver Brooks natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-0150-01-17-CC23, located in Building 150, constructed in April 1989, with a maximum capacity of 25.2 MMBtu/hr, and exhausting to stack CRN-0150-01-17-CC23-S.

(8) Cleaver Brooks natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-0150-03-17-CC23, located in Building 150, constructed in April 1989, with a maximum capacity of 25.2 MMBtu/hr, and exhausting to stack CRN-0150-03-17-CC23-S.

(9) Cleaver Brooks natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-0199-01-23-JJ14, located in Building 199, constructed in 1978, with a maximum capacity of 17.5 MMBtu/hr, and exhausting to stack CRN-0199-01-23-JJ14-S.

(10) Cleaver Brooks natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-0199-02-23-JJ14, located in Building 199, constructed in 1978, with a maximum capacity of 17.5 MMBtu/hr, and exhausting to stack CRN-0199-02-23-JJ14-S.

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

**SECTION D.2** **FACILITY OPERATION CONDITIONS (CONTINUED)**

**Emission Unit Description**

(11) Kewanee natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-1819-01-17-Y23, located in Building 1819, constructed in 1981, with a maximum capacity of 3.35 MMBtu/hr, and exhausting to stack CRN-1819-01-17-Y23-S.

(12) Kewanee natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-1819-02-17-Y23, located in Building 1819, constructed in 1981, with a maximum capacity of 3.35 MMBtu/hr, and exhausting to stack CRN-1819-02-17-Y23-S.

(13) Iron Fireman natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-2692-01-17-W27, located in Building 2692, constructed in 1983, with a maximum capacity of 3.01 MMBtu/hr, and exhausting to stack CRN-2692-01-17-W27-S.

(14) Cleaver Brooks natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-2737-01-12-M41, located in Building 2737, constructed in 1987, with a maximum capacity of 12.5 MMBtu/hr, and exhausting to stack CRN-2737-01-12-M41-S.

(15) Cleaver Brooks natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-2737-02-12-M41, located in Building 2737, constructed in 1987, with a maximum capacity of 12.5 MMBtu/hr, and exhausting to stack CRN-2737-02-12-M41-S.

(16) Cleaver Brooks natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-2737-03-12-M41, located in Building 2737, constructed in 1987, with a maximum capacity of 12.5 MMBtu/hr, and exhausting to stack CRN-2737-03-12-M41-S.

(17) Superior natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-3234-02-17-U26, located in Building 3234, constructed in 1992, with a maximum capacity of 8.4 MMBtu/hr, and exhausting to stack CRN-3234-02-17-U26-S.

(18) Superior natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-3234-03-17-U26, located in Building 3234, constructed in 1992, with a maximum capacity of 8.4 MMBtu/hr, and exhausting to stack CRN-3234-03-17-U26-S.

(19) Johnston natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-0041-02-17-U26, located in Building 41, constructed in 1983, with a maximum capacity of 6.9 MMBtu/hr, and exhausting to stack CRN-0041-02-17-U26-S.

(20) Hurst natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-0041-03-17-U26, located in Building 41, constructed in 2008, with a maximum capacity of 6.9 MMBtu/hr, and exhausting to stack CRN-0041-02-17-U26-S.

(21) Cleaver Brooks natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-0064-01-10-T27, located in Building 64, constructed in 1976, with a maximum capacity of 10.0 MMBtu/hr, and exhausting to stack CRN-0064-01-10-T27-S.

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

**Emission Unit Description**

(22) Cleaver Brooks natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-0115-02-23-GG12, located in Building 115, constructed in 1997, with a maximum capacity of 16.75 MMBtu/hr, and exhausting to stack CRN-0115-02-23-GG12-S.

Under NSPS, Subpart Dc, Boiler CRN-0115-02-23-GG12 is considered an affected facility.

(23) Cleaver Brooks natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-0128-02-17-W25, located in Building 128, constructed in 1984, with a maximum capacity of 6.2 MMBtu/hr, and exhausting to stack CRN-0128-02-17-W25-S.

(24) Cleaver Brooks natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-0149-01-10-S30, located in Building 149, constructed in 1980, with a maximum capacity of 6.7 MMBtu/hr, and exhausting to stack CRN-0149-01-10-S30-S.

(25) Cleaver Brooks natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-0149-02-10-S30, located in Building 149, constructed in 1980, with a maximum capacity of 6.7 MMBtu/hr, and exhausting to stack CRN-0149-02-10-S30-S.

(26) Cleaver Brooks natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-0180-01-17-W22, located in Building 180, constructed in 1999, with a maximum capacity of 4.2 MMBtu/hr, and exhausting to stack CRN-0180-01-17-W22-S.

(27) Cleaver Brooks natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-0180-02-17-W22, located in Building 180, constructed in 1999, with a maximum capacity of 4.2 MMBtu/hr, and exhausting to stack CRN-0180-02-17-W22-S.

(28) Kewanee natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-2517-01-10-T21, located in Building 2517, constructed in 1981, with a maximum capacity of 4.85 MMBtu/hr, and exhausting to stack CRN-2517-01-10-T21-S.

(29) Kewanee natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-2517-02-10-T21, located in Building 2517, constructed in 1981, with a maximum capacity of 4.85 MMBtu/hr, and exhausting to stack CRN-2517-02-10-T21-S.

(30) Johnston natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-2523-01-9-K18, located in Building 2523, constructed in 1983, with a maximum capacity of 17.4 MMBtu/hr, and exhausting to stack CRN-2523-01-9-K18-S.

(31) Johnston natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-2523-02-9-K18, located in Building 2523, constructed in 1983, with a maximum capacity of 17.4 MMBtu/hr, and exhausting to stack CRN-2523-02-9-K18-S.

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

**Emission Unit Description**

(32) Superior natural gas and/or distillate fuel No. 2-fired boiler, identified as CRN-2674-01-00-0001, located in Building 2674, constructed in 1985, with a maximum capacity of 8.4 mmBtu/hr, and exhausting to stack CRN-2674-01-00-0001-S.

(33) Superior natural gas and/or distillate fuel No. 2-fired boiler, identified as CRN-2674-02-00-0001, located in Building 2674, constructed in 1985, with a maximum capacity of 8.4 mmBtu/hr, and exhausting to stack CRN-2674-02-00-0001-S.

(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 2-7-5(1)]**

D.2.1 Particulate Matter Emissions Limitations [326 IAC 6-2-3]

Pursuant to 326 IAC 6-2-3 (Particulate Emission Limitations for Sources of Indirect Heating), the PM emissions from the boilers which were existing and in operation or which received permits to construct prior to September 21, 1983, shall not exceed 0.05 pounds per million Btu heat input (lb/MMBtu).

| Unit ID | Building Location | Heat Input Capacity (MMBtu/hr) |
|---|---|---|
| CRN-0041-01-17-U26 | Building 41 | 10.00 |
| CRN-0041-02-17-U26 | Building 41 | 6.90 |
| CRN-0064-01-10-T27 | Building 64 | 10.00 |
| CRN-0140-01-17-Y25 | Building 140 | 6.20 |
| CRN-0140-02-17-Y25 | Building 140 | 6.20 |
| CRN-0149-01-10-S30 | Building 149 | 6.70 |
| CRN-0149-02-10-S30 | Building 149 | 6.70 |
| CRN-0199-01-23-JJ14 | Building 199 | 17.50 |
| CRN-0199-02-23-JJ14 | Building 199 | 17.50 |
| CRN-1819-01-17-Y23 | Building 1819 | 3.35 |
| CRN-1819-02-17-Y23 | Building 1819 | 3.35 |
| CRN-2517-01-10-T21 | Building 2517 | 4.85 |
| CRN-2517-02-10-T21 | Building 2517 | 4.85 |
| CRN-2523-01-9-K18 | Building 2523 | 17.4 |
| CRN-2523-02-9-K18 | Building 2523 | 17.4 |
| CRN-2692-01-17-W27 | Building 2692 | 3.01 |

D.2.2 Particulate Matter Emissions Limitations [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating), particulate emissions from the boilers listed below, receiving permits to construct after September 21, 1983, shall not exceed the following (in pound per million Btu heat input (lb/MMBtu) for each boiler):

| Unit ID | Building Location | Installation Date | Pt (lb/MMBtu) |
|---|---|---|---|
| CRN-2674-01-00-0001 | Building 2674 | 1985 | 0.24 |
| CRN-2674-02-00-0001 | Building 2674 | 1985 | 0.24 |
| CRN-0115-03-23-GG12 | Building 115 | 1985 | 0.24 |
| CRN-2737-01-12-M41 | Building 2737 | 1987 | 0.22 |
| CRN-2737-02-12-M14 | Building 2737 | 1987 | 0.22 |
| CRN-2737-03-12-M41 | Building 2737 | 1987 | 0.22 |
| CRN-0150-01-17-CC23 | Building 150 | 1989 | 0.21 |
| CRN-0150-03-17-CC23 | Building 150 | 1989 | 0.21 |
| CRN-3234-02-17-U26 | Building 3234 | 1992 | 0.20 |
| CRN-3234-03-17-U26 | Building 3234 | 1992 | 0.20 |
| CRN-0128-03-17-W25 | Building 128 | 1997 | 0.18 |
| CRN-0128-01-17-W25 | Building 128 | 1997 | 0.18 |
| CRN-0115-01-23-GG12 | Building 115 | 1997 | 0.18 |
| CRN-0115-02-23-GG12 | Building 115 | 1997 | 0.18 |
| CRN-0180-01-17-W22 | Building 180 | 1999 | 0.18 |
| CRN-0180-02-17-W22 | Building 180 | 1999 | 0.18 |
| CRN-0041-03-17-U26 | Building 41 | 2008 | 0.18 |

D.2.3 Sulfur Dioxide Emissions Limitations [326 IAC 7-1.1-2]

Pursuant to 326 IAC 7-1.1-2, the following boilers shall each be limited to five tenths (0.5) pounds of sulfur dioxide ($SO_2$) per million Btu when combusting distillate oil:

| Unit ID | Building Location |
|---|---|
| CRN-0199-01-23-JJ14 | Building 199 |
| CRN-0199-02-23-JJ14 | Building 199 |
| CRN-2523-01-9-K18 | Building 2523 |
| CRN-2523-02-9-K18 | Building 2523 |
| CRN-0115-03-23-GG12 | Building 115 |
| CRN-0128-03-17-W25 | Building 128 |
| CRN-0150-01-17-CC23 | Building 150 |
| CRN-0150-03-17-CC23 | Building 150 |
| CRN-2737-01-12-M41 | Building 2737 |
| CRN-2737-02-12-M41 | Building 2737 |
| CRN-2737-03-12-M41 | Building 2737 |

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

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities.

**Compliance Determination Requirements**

D.2.5 Sulfur Dioxide Emissions and Sulfur Content

Compliance shall be determined utilizing one of the following options:

(a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed five-tenths (0.5) pounds per million Btu by:

(1) Providing vendor analysis of fuel delivered, if accompanied by a certification;

(2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.

(A) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and

(B) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling; or

(b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the boiler, using 40 CFR Part 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

A determination of noncompliance pursuant to either of the methods specified in (a) or (b) above shall not be refuted by evidence of compliance pursuant to the other method.

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

D.2.6 Visible Emissions Notations

(a) Visible emission notations of the following boiler stack exhausts shall be performed once per day during normal daylight operations when combusting No. 2 fuel oil only. A trained employee shall record whether emissions are normal or abnormal.

| Unit ID | Building Location |
|---|---|
| CRN-0199-01-23-JJ14 | Building 199 |
| CRN-0199-02-23-JJ14 | Building 199 |
| CRN-2523-01-9-K18 | Building 2523 |
| CRN-2523-02-9-K18 | Building 2523 |
| CRN-0115-03-23-GG12 | Building 115 |
| CRN-0128-03-17-W25 | Building 128 |
| CRN-0150-01-17-CC23 | Building 150 |
| CRN-0150-03-17-CC23 | Building 150 |
| CRN-2737-01-12-M41 | Building 2737 |
| CRN-2737-02-12-M41 | Building 2737 |
| CRN-2737-03-12-M41 | Building 2737 |

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

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

D.2.7 Record Keeping Requirements

(a) To document compliance with Condition D.2.3, the Permittee shall maintain records in accordance with (1) through (6) below.

(1) Calendar dates covered in the compliance determination period;

(2) Actual fuel oil usage since last compliance determination period and equivalent sulfur dioxide emissions;

(3) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel combusted during the period, the natural gas fired boiler certification does not require the certification by the " responsible official" as defined by 326 IAC 2-7-1(34); and

If the fuel supplier certification is used to demonstrate compliance the following, as a minimum, shall be maintained:

(4) Fuel supplier certifications;

(5) The name of the fuel supplier; and

(6) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.

The Permittee shall retain records of all recording/monitoring data and support information for a period of five (5) years, or longer, if specified elsewhere in this permit, from the date of the monitoring sample, measurement, or report. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit.

(b) To document compliance with Condition D.2.6, the Permittee shall maintain a daily record of visible emission notations of the boiler stack exhausts when combusting fuel oil only. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of a visible emission notation (e.g. the process did not operate that day).

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

D.2.8 Reporting Requirements

(a) The natural gas boiler certification shall be submitted to the address listed in Section C - General Reporting Requirement, of this permit, using the reporting forms located at the end of this permit, or its equivalent, within thirty (30) days after the end of the six (6) month period being reported for the boilers listed in Condition D.2.3. The natural gas-fired boiler certification does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) A semi-annual summary of the information to document compliance with Condition D.2.3 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, within thirty (30) days after the end of the six (6) month period being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

## SECTION D.3 FACILITY OPERATION CONDITIONS

**Emission Unit Description**

(c) Three (3) Carpentry Shops, identified as:

(1) CRN-0056-04-10-T21, located in Building 56, with a maximum wood usage of 74,880 board feet per year and a maximum process weight rate of 0.14 tons per hour, equipped with a cyclone for particulate control, and exhausting to stack CRN-0056-04-10-T21-S. [40 CFR Part 64]

(2) CRN-0224-02-23-HH12, located in Building 224, with a maximum wood usage of 1,000,000 board feet per year and maximum process weight rate of 0.69 tons per hour, equipped with a cyclone for particulate control, and exhausting to stack CRN-0224-02-23-HH12-S. [40 CFR Part 64]

(3) CRN-2720-04-23-GG12, located in Building 2720, with a maximum wood usage of 14,000 board feet per year and a maximum process weight rate of 0.25 tons per hour, equipped with a cyclone for particulate control, and exhausting to stack CRN-2720-04-23-GG12-S.

(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 2-7-5(1)]**

D.3.1 Particulate Matter Emissions Limitations [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate matter (PM) emissions from the carpentry shops shall not exceed the limitations in the table below:

| Unit ID | Unit Description | Maximum Throughput Rate (tons/hr) | Particulate Emission Limit (lbs/hr) |
|---|---|---|---|
| CRN-0056-04-10-T21 | Carpentry Shop | 0.14 | 1.10 |
| CRN-0224-02-23-HH12 | Carpentry Shop | 0.69 | 3.20 |
| CRN-2720-04-23-GG12 | Carpentry Shop | 0.25 | 1.62 |

The pounds per hour limitations were calculated with the following equation:

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

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

D.3.2 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the three (3) carpentry shop operations and their control devices.

**Compliance Determination Requirements**

D.3.3 Particulate Matter (PM) [40 CFR Part 64]

The cyclones for PM control shall be in operation at all times when the carpentry shop operations are in use.

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

D.3.4 Visible Emissions Notations [40 CFR Part 64]

(a) Visible emission notations of the cyclone stack exhausts shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.3.5 Cyclone Failure Detection [40 CFR Part 64]

In the event that cyclone failure has been observed:

Failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions). Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

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

D.3.6 Record Keeping Requirements

(a) To document compliance with Condition D.3.4, the Permittee shall maintain a daily record of visible emission notations of the cyclone stack exhausts. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of a visible emission notation (e.g. the process did not operate that day).

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

**Emission Unit Description**

(d) Twenty-seven (27) paint booths, consisting of:

(1) CRN-0104-01-23-HH16, exhausting to stack CRN-0104-01-23-HH16-S, located in Building 104, constructed in 1983, using a dry filter to control particulate matter emissions.

(2) CRN-0104-02-23-HH16, exhausting to stack CRN-0104-02-23-HH16-S, located in Building 104, constructed in 1983, using a dry filter to control particulate matter emissions.

(3) CRN-0104-03-23-HH16, exhausting to stack CRN-0104-03-23-HH16-F, located in Building 104, approved for construction in 2010, using a dry filter to control particulate matter emissions.

(4) CRN-0107-01-23-HH13, exhausting to stack CRN-0107-01-23-HH13-S, located in Building 107, constructed in 1980, using a dry filter to control particulate matter emissions.

(5) CRN-0107-02-23-HH13, exhausting to stack CRN-0107-02-23-HH13-S, located in Building 107, constructed in 1980, using a dry filter to control particulate matter emissions.

(6) CRN-0107-03-23-HH13, exhausting to stack CRN-0107-03-23-HH13-S, located in Building 107, constructed in 1980, using a dry filter to control particulate matter emissions.

(7) CRN-0107-04-23-HH13, exhausting to stack CRN-0107-04-23-HH13**-S**, located in Building 107, constructed in 1980, using a water wall to control particulate matter emissions.

(8) CRN-0136-01-17-Z26, exhausting to stack CRN-0136-01-17-Z26-S, located in Building 136, constructed in 1963, using a dry filter to control particulate matter emissions.

(9) CRN-0155-02-17-BB25, exhausting to stack CRN-0155-02-17-BB25-S, located in Building 155, constructed in 1986, using a dry filter to control particulate matter emissions.

(10) CRN-0155-03-17-BB25, exhausting to stack CRN-0155-03-17-BB25-S, located in Building 155, constructed in 1986, using a dry filter to control particulate matter emissions.

(11) CRN-0169-01-24-EE22, exhausting to stack CRN-0169-01-24-EE22-S, located in Building 169, constructed in 1950, using a dry filter to control particulate matter emissions.

(12) CRN-2520-01-17-Y26, exhausting to stack CRN-2520-01-17-Y26-S, located in Building 2520, constructed in 1968, using a dry filter to control particulate matter emissions.

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

**SECTION D.4 FACILITY OPERATION CONDITIONS (Continued)**

**Emission Unit Description**

(13) Bomb Finishing Line, with a maximum capacity of thirteen (13) units per hour and Projectile Renovation Operations with a maximum capacity of 120 units per hour, consisting of the following units:

(i) CRN-2728-01-12-N42, exhausting to stack CRN-2728-01-12-N42-S, located in Building 2728, constructed in 1999, using a dry filter to control particulate matter emissions.

(ii) CRN-2728-02-12-N42, exhausting to stack CRN-2728-02-12-N42-S, located in Building 2728, constructed in 1999, using a dry filter to control particulate matter emissions.

(iii) CRN-2728-03-12-N42, exhausting to stack CRN-2728-03-12-N42-S, located in Building 2728, constructed in 1999, using a dry filter to control particulate matter emissions.

(14) CRN-3234-09-17-U26, exhausting to stack CRN-3234-09-17-U26-S, located in Building 3234, constructed in 1994, using a dry filter to control particulate matter emissions.

(15) CRN-3234-10-17-U26, exhausting to stack CRN-3234-10-17-U26-S, located in Building 3234, constructed in 1994, using a dry filter to control particulate matter emissions.

(16) CRN-3234-15-17-U26, exhausting to stack CRN-3234-15-17-U26-S, located in Building 3234, constructed in 1994, using a dry filter to control particulate matter emissions.

(17) CRN-0198-01-23-II15, exhausting to stack CRN-0198-01-23-II15-S, located in Building 198, constructed in 1975, using a dry filter to control particulate matter emissions.

(18) CRN-0227-01-23-HH12, exhausting to stack CRN-0227-01-23-HH12-S, located in Building 227, constructed prior to 1991, using a dry filter to control particulate matter emissions.

(19) CRN-0227-02-23-HH12, exhausting to stack CRN-0227-02-23-HH12-S, located in Building 227, constructed prior to 1991, using a dry filter to control particulate matter emissions.

(20) CRN-2697-01-17-W24, exhausting to stack CRN-2697-01-17-W24-S, located in Building 2697, constructed in 1983, using a dry filter to control particulate matter emissions..

(21) CRN-2805-02-23-GG19, exhausting to stack CRN-2805-02-23-GG19-S, located in Building 2805, constructed in 1995, using a dry filter to control particulate matter emissions.

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

**Emission Unit Description**

(22) CRN-2805-03-23-GG19, exhausting to stack CRN-2805-03-23-GG19-S, located in Building 2805, constructed in 2006, using a dry filter to control particulate matter emissions.

(23) CRN-3168-02-17-V28, exhausting to stack CRN-3168-02-17-V28-S, located in Building 3168, constructed in 1988, using a dry filter to control particulate matter emissions.

(24) CRN-0106-03-23-HH13, located in Building 106, constructed in 2005, equipped with four (4) HVLP guns to paint metal vehicles components, with a maximum primer usage of 5.82 lbs/hr and a maximum topcoat usage of 4.8 lbs/hr, using dry filters to control particulate matter emissions, and exhausting through stack PBS2. This paint booth is also equipped with one (1) 1.5 MMBtu/hr natural gas burner for paint curing.

(25) One (1) surface coating booth, identified as CRN-0106-04-23-PBS1, constructed in 2007 and located in Building 106, equipped with four (4) high volume low pressure (HVLP) spray applicators used to coat metal military kits, with a maximum primer usage rate of 0.8 gallons per hour and a maximum topcoat usage rate of 0.6 gallons per hour, using dry filters to control particulate matter emissions and exhausting to stack PBS1.

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

**Emissions Limitations and Standards [326 IAC 2-7-5(1)]**

D.4.1 PSD Minor Limits [326 IAC 2-2]

Pursuant to Significant Source Modification No.: 101-11153-00005 issued on October 12, 1999:

The VOC input to the three paint booths CRN-2728-01-12-N42 (Building 2728), CRN-2728-02-12-N42 (Building 2728), and CRN-2728-03-12-N42 (Building 2728) shall be limited to less than 39.0 tons, including coatings, dilution solvents, and cleaning solvents, per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with this limit shall limit the VOC emissions to less than 40 tons per year and render 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable.

D.4.2 General Provisions Relating to VOC Rules: Military Specifications [326 IAC 8-1-7] and Site-Specific RACT Plan [326 IAC 8-1-5]

Pursuant to 326 IAC 8-1-7 (Military Specifications) and Significant Source Modification No.: 101-11153-00005, the volatile organic compound (VOC) content of coating delivered to the following:

Bomb Finishing Line, with a maximum capacity of thirteen (13) units per hour and Projectile Renovation Operations with a maximum capacity of one hundred twenty (120) units per hour, consisting of the following units:

(1) CRN-2728-01-12-N42, located in Building 2728, constructed in 1999;
(2) CRN-2728-02-12-N42, located in Building 2728, constructed in 1999;
(3) CRN-2728-03-12-N42, located in Building 2728, constructed in 1999,

shall be limited to 5.45 pounds of VOCs per gallon of coating less water, for air dried coatings, averaged on a daily basis for each paint booth.

D.4.3 Miscellaneous Metal Coating Operations [326 IAC 8-2-9]

Pursuant to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations), the volatile organic compound (VOC) content of coating delivered to each of the following paint booths shall be limited to 3.5 pounds of VOCs per gallon of coating less water averaged on a daily basis for each paint booth:

(1) CRN-3234-09-17-U26, located in Building 3234, constructed in 1994;
(2) CRN-3234-10-17-U26, located in Building 3234, constructed in 1994;
(3) CRN-3234-15-17-U26, located in Building 3234, constructed in 1994;
(4) CRN-0227-01-23-HH12, located in Building 227, constructed prior to 1991;
(5) CRN-0227-02-23-HH12, located in Building 227, constructed prior to 1991;
(6) CRN-2805-03-23-GG19, located in Building 2805, constructed in 2006;
(7) CRN-0106-03-23-HH13, located in Building 106, constructed in 2005;
(8) CRN-0106-04-23-PBS1, located in Building 106, constructed in 2007.
(9) CRN-0104-01-23-HH16, located in Building 104, constructed in 1983;
(10) CRN-0104-02-23-HH16, located in Building 104, constructed in 1983;
(11) CRN-0104-03-23-HH16, located in Building 104, approved for construction in 2010;
(12) CRN-0107-01-23-HH13, located in Building 107, constructed in 1980;
(13) CRN-0107-02-23-HH13, located in Building 107, constructed in 1980;
(14) CRN-0107-03-23-HH13, located in Building 107, constructed in 1980;
(15) CRN-0107-04-23-HH13, located in Building 107, constructed in 1980;
(16) CRN-0155-02-17-BB25, located in Building 155, constructed in 1986;
(17) CRN-0155-03-17-BB25, located in Building 155, constructed in 1986; and
(18) CRN-2697-01-17-W24, located in Building 2697, constructed in 1983

Solvent sprayed from application equipment during cleanup or color changes shall be directed into containers. Such containers shall be closed as soon as such solvent spraying is complete, and the waste solvent shall be disposed of in such a manner that evaporation is minimized.

D.4.4 Particulate [326 IAC 6-3-2(d)]

Pursuant to 326 IAC 6-3-2(d), particulate (PM) emissions from each of the surface coating operations shall be controlled by a dry particulate filter, water wash, or an equivalent control device. The Permittee shall operate the control devices in accordance with manufacturer's specifications.

D.4.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the surface coating operations and their control devices.

**Compliance Determination Requirements**

D.4.6 Volatile Organic Compounds (VOC) [326 IAC 8-1-4][326 IAC 8-1-2(a)]

Compliance with the VOC content and usage limitations contained in Conditions D.4.1(a), D.4.2, and D.4.3 shall be determined as follows:

(a) 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; or

(b) 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 of VOC per gallon less water as applied;
C is the VOC content of the coating in pounds of VOC per gallon less water as applied; and
U is the usage rate of the coating in gallons per day.

D.4.7 Particulate Matter (PM and PM-10)

In order to comply with Conditions D.4.1(b), D.4.1(c), and D.4.4, the dry filters or water walls for PM and PM-10 control shall be in operation at all times the surface coating operations are in use and the Permittee shall operate the control devices in accordance with manufacturer's specifications.

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

D.4.8 Monitoring

(a) Daily inspections shall be performed to verify the placement, integrity and particle loading of the dry filters (except for booth CRN-0198-01-23-II15, exhausting to vent II15, and CRN-3168-02-17-V28, exhausting to vent V28). Daily inspections shall be performed for the water wall to verify the level where surface agitation indicates impact of the air flow. Water shall be kept free of solids and floating material that reduces the capture efficiency of the water wall. To monitor the performance of the water wall and the dry filters, weekly observations shall be made of the overspray from the surface coating booth stacks while one or more of the booths are in operation (except for booth CRN-0198-01-23-II15, exhausting to vent II15, and CRN-3168-02-17-V28, exhausting to vent V28). If a condition exists which should result in a response step, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

(b) Monthly inspections shall be performed of the coating emissions from the stack (except for booth CRN-0198-01-23-II15, exhausting to vent II15, and CRN-3168-02-17-V28, exhausting to vent V28) and the presence of overspray on the rooftops and the nearby ground. When there is a noticeable change in overspray emissions, or when evidence of overspray emissions is observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

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

D.4.9 Record Keeping Requirements

(a) To document compliance with Conditions D.4.1 and D.4.2, the Permittee shall maintain records in accordance with (1) through (5) below. Records maintained for (1) through (5) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC usage limits and/or the VOC emission limits established in Conditions D.4.1 and D.4.2.

(1) The amount and VOC content of each coating material and solvent used. Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used. Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents;

(2) A log of the dates of use;

(3) The volume weighted VOC content of the coatings used for each month;

(4) The cleanup solvent usage for each month;

(5) The total VOC usage for each month; and

(b) To document compliance with Condition D.4.3, the Permittee shall maintain records in accordance with (1) through (5) below. Records maintained for (1) through (5) shall be taken daily and shall be complete and sufficient to establish compliance with the VOC usage limits and/or the VOC emission limits established in Condition D.4.3.

(1) The amount and VOC content of each coating material and solvent used. Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used. Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents;

(2) A log of the dates of use;

(3) The volume weighted VOC content of the coatings used for each day;

(4) The cleanup solvent usage for each day;

(5) The total VOC usage for each day; and

(c) To document compliance with Condition D.4.8, the Permittee shall maintain a log of weekly overspray observations, daily and monthly inspections.

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

D.4.10 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.4.1~~(a)~~ shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

**Emission Unit Description**

(e) Open burning/open detonation, constructed/installed before 1950, consisting of:

(1) Open Burning of Ordnance at the Ammunition Burning Ground, identified as CRN-ABG-01-19-DD43, with a maximum usage of 2.3 MMlb/yr (1,150 tons/yr) of Dunnage; 0.64 MMlb/yr (320 tons/yr) of Explosive; 4.7 MMlb/yr (2350 tons/yr) of Propellant.

(2) Open Detonation of Ordnance at the Demolition Range and the Surveillance Function Test Range, identified as CRN-DR/SFTR-01-24-KK21, with a combined maximum usage of 0.13 MMlb/yr (65 tons/yr) of Dunnage; 1.6 MMlb/yr (800 tons/yr) of Explosive; 0.52 MMlb/yr (260 tons/yr) of Propellant.

(3) Open Burning of Ordnance at the Old Rifle Range, identified as CRN-ORR-01-24-JJ24, with a maximum usage of 0.15 MMlb/yr (75 tons/yr) of Dunnage; 0.032 MMlb/yr (16 tons/yr) of Explosive; 0.012 MMlb/yr (6 tons/yr) of Propellant.

(4) Fast and Slow Cookoff at the Ordnance Test Area, identified as CRN-OTA-01-29-WW18, with a maximum usage of 10,000 units of various ordnance per year.

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

**Emissions Limitations and Standards [326 IAC 2-7-5(1)]**

D.5.1 RCRA Air Standards and Limitations

(a) The Permittee shall comply with all applicable provisions of 40 CFR 264, Subpart CC.

(b) The Permittee shall notify the Regional Administrator upon planning to treat more than 70 shots per event at the Demolition Range.

(c) The Permittee shall comply with all self-implementing provisions of any future air regulations promulgated under the provisions of Section 3004(n) of RCRA, as amended by Hazardous and Solid Waste Amendments of 1984 (HSWA).

(d) The Permittee shall not exceed the material quantities as follows:

(1) Ammunition Burning Grounds (ABG)

| Unit Number | Material | Limited Treatment Quantity (NEW) | |
|---|---|---|---|
| | | 8-hour Period (pounds) | Quarterly Period (tons) |
| 3a-ABG | Propellants | 75,000 | 3,412.5 |
| 3b-ABG | Explosives | 25,000 | 1,137.5 |
| 3c-ABG | Production Scrap | 75,000 | 3,412.5 |
| 6-ABG | Red Phosphorous | 1,600 | 72.8 |
| 7-ABG | Pyrotechnics | 200 | 9.1 |
| 8-ABG | Black Powder Slurry | 250 | 11.4 |
| 10-ABG | Contaminated Sludges | 2,000 | 91.0 |
| 11-ABG | Red Phosphorous Sludge | 200 | 9.1 |
| 12-ABG | Explosives/Propellants/ Pyrotechnics | 300 | 13.7 |
| 13-ABG | Explosives/Pyrotechnics | 50,000 | 2,275.0 |

| Unit Number | Material | Limited Treatment Quantity (NEW) | |
|---|---|---|---|
| | | 8-hour Period (pounds) | Quarterly Period (tons) |
| 4-ABG | Flammable Liquids/Explosives | 200 | 9.1 |
| 5-ABG | Flammable liquids contaminated with reactive materials | 300 | 13.7 |
| 9-ABG | Contaminated Waste Materials | 400 | 18.2 |

(2) Old Rifle Range (ORR)

| Unit Number | Material | Limited Treatment Quantity (NEW) | |
|---|---|---|---|
| | | 8-hour Period (pounds) | Quarterly Period (tons) |
| 3a-ORR | Yellow D | 6,000 | 273.0 |
| 3b-ORR | Projectile Bodies and Yellow D contaminated materials | 9,000 | 409.5 |

(3) Demolition Range

| Unit Number | Material | Limited Treatment Quantity (NEW) | |
|---|---|---|---|
| | | 24-hour Period (pounds) | Quarterly Period (tons) |
| 3-DR | Explosives | 55,000 | 2,502.5 |

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

D.5.2 Record Keeping Requirements

(a) To document compliance with Condition D.5.1(d), the Permittee shall maintain records detailing the type and amount of waste treated and records of all materials open burned and open detonated.

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

D.5.3 Reporting Requirements

(a) To document compliance with Condition D.5.1(d), the Permittee shall submit a quarterly report detailing all materials open burned and open detonated using the report form located at the end of this permit, or their equivalent.

(b) All quarterly reports shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

**Emission Unit Description**

(f) Mixing and pouring equipment in Building 200 used as a plastic bonded explosive line, constructed in 1984, consisting of mixing and pouring operations, with a maximum process weight rate of 214 pounds per hour, using a carbon adsorption system with a wet scrubber to control particulate matter emissions.

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

**Emissions Limitations and Standards [326 IAC 2-7-5(1)]**

D.6.1 Particulate Matter Emissions Limitations [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate matter (PM) emissions from the mixing and pouring equipment shall not exceed 0.93 pounds per hour when operating at a process weight rate of 0.11 tons per hour.

The pounds per hour limitation was calculated with the following equation:

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

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

D.6.2 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

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

**Compliance Determination Requirements**

D.6.3 Particulate Matter (PM)

In order to comply with Condition D.6.1, the scrubber shall be operated at all times the mixing and pouring operations are in use and the Permittee shall operate the control devices in accordance with manufacturer's specifications.

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

D.6.4 Visible Emissions Notations

(a) Visible emission notations of the wet scrubber stack exhaust from the mixing and pouring operations shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take

response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.6.5 Scrubber Operating Condition

(a) The Permittee shall monitor and record the pressure drop of the scrubber once per day. When for any one reading, the pressure drop across the scrubber is outside the normal range of 2.0 and 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

(b) The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

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

D.6.6 Record Keeping Requirements

(a) To document compliance with Condition D.6.4, the Permittee shall maintain a daily record of visible emission notations of the wet scrubber stack exhaust from the mixing and pouring operations. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of a visible emission notation (e.g. the process did not operate that day).

(b) To document compliance with Condition D.6.5, the Permittee shall maintain a daily record of the pressure drop across the scrubber controlling the mixing and pouring operations. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).

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

## SECTION D.7 FACILITY OPERATION CONDITIONS

**Emission Unit Description**

(g) Explosive bomb loading operations consisting of:

(1) screening and weighing aluminum powder in Building 2714, constructed in 1987, using a baghouse for particulate control, with a maximum process weight rate of 161.5 pounds per hour;

(2) screening and weighing TNT in Building 153, constructed in 1987, using a wet scrubber for particulate control, with a maximum process weight rate of 641.8 pounds per hour; and

(3) melting and mixing aluminum powder and TNT in Building 152, constructed in 1987, using a wet scrubber for particulate control, with a maximum process weight rate of 8,032.5 pounds per hour.

(4) one (1) aluminum powder sieve, approved for construction in 2009, identified as CRN-0155-05-A1 and located in Building 155, with a total throughput of 20 lbs aluminum powder per hour using a baghouse, identified as CRN 0155-05A1-BHI, to control particulate emissions exhausting through stack CRN 0155-05A1-BHI.

**Insignificant Activities**

(ff) (41) One (1) steam kettle for the refinement of trinitrotoluene (TNT), approved for construction in 2009, identified as CRN-0160-01-A, with a maximum batch throughput of 120 lb TNT per hour and a total throughput of 2,400 lb TNT per day, controlled by a wet scrubber, identified as Scrubber 1, exhausting to stack S-1.

(42) One (1) steam kettle for the refinement of trinitrotoluene (TNT), approved for construction in 2009, identified as CRN-0160-02-B, with a maximum batch throughput of 120 lb TNT per hour and a total throughput of 2,400 lb TNT per day, controlled by a wet scrubber, identified as Scrubber 2, exhausting to stack S-2.

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

**Emissions Limitations and Standards [326 IAC 2-7-5(1)]**

D.7.1 Particulate Matter Emissions Limitations [326 IAC 6-3-2]

(a) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate matter (PM) emissions from the explosive bomb loading operations and the steam kettles shall not exceed the limitations in the table below:

| Unit Description | Maximum Throughput Rate (tons/hr) | Particulate Emission Limit (lbs/hr) |
|---|---|---|
| Explosive Bomb Loading Operation (Screening and Weighing Aluminum Powder in Building 2714) | 0.081 | 0.13 |
| Explosive Bomb Loading Operation (Screening and Weighing TNT in Building 153) | 0.32 | 1.91 |
| Explosive Bomb Loading Operation (Melting and Mixing Aluminum Powder in Building 152) | 4.02 | 10.41 |
| Steam Kettle CRN-0160-01-A | 0.06 | 0.623 |
| Steam Kettle CRN-0160-02-B | 0.06 | 0.623 |

The pounds per hour limitations were calculated with the following equation:

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

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

(b) Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the aluminum powder sieve identified as CRN-0155-05-A1 shall not exceed 0.551 pounds per hour when operating at a process rate of 0.010 tons per hour.

D.7.2 Prevention of Significant Deterioration (PSD) Minor Limit [326 IAC 2-2]

The emissions from the aluminum powder sieve identified as CRN-0155-05-A1 shall be less than 3.42 pounds per hour. Compliance with the above limit shall limit $PM_{10}$ to less than 15 tons per year and render 326 IAC 2-2 not applicable to this modification.

D.7.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the explosive bomb loading operations and their control devices.

**Compliance Determination Requirements**

D.7.4 Particulate Matter (PM)

(a) In order to comply with Condition D.7.1, the baghouse and wet scrubbers for PM control shall be in operation at all times the aluminum powder sieve and the explosive bomb loading operations, respectively, are in use and the Permittee shall operate the control devices in accordance with manufacturer's specifications.

(b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

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

D.7.5 Visible Emissions Notations

(a) Visible emission notations of the baghouse and wet scrubber stack exhausts from the explosive bomb loading operations shall be performed once per day during normal daylight operation. A trained employee shall record whether emissions are normal or abnormal.

(b) Visible emission notations of the baghouse stack exhaust (stack CRN 0155-05-A1) shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

(c) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(d) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(e) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(f) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.7.6 Scrubber Parametric Monitoring

(a) The Permittee shall monitor and record the pressure drop of the wet scrubbers, used in conjunction with the screening and weighing of TNT in Building 153 and the melting and mixing of aluminum powder and TNT in Building 152, once per day. When for any one reading, the pressure drop across the scrubbers is outside the normal range of 2.0 and 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

(b) The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, and shall be calibrated in accordance with the manufacturer's specifications. The specifications shall be available on site with the Preventive Maintenance Plan.

D.7.7 Baghouse Parametric Monitoring

(a) The Permittee shall record the pressure drop across the baghouse used in conjunction with the explosive bomb loading operation (screening and weighing aluminum powder in Building 2714), at least once per day when the Explosive Bomb Loading Operation (screening and weighing aluminum powder in Building 2714) is in use. When for any one reading, the pressure drop across the baghouse is outside the normal range of 2.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

(b) The Permittee shall record the pressure drop across the baghouse used in conjunction with the aluminum powder sieve at least once per day when the aluminum powder sieve is in use. When, for any one reading, the pressure drop across the baghouse is outside the normal range of 2.0 and 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C-Response to Excursions or Exceedances. A pressure drop reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C – Response to Excursions or Exceedances shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

D.7.8 Broken or Failed Bag Detection

For the baghouse used in conjunction with the explosive bomb loading operation (screening and weighing aluminum powder in Building 2714) and the aluminum powder sieve located in Building 155:

(a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

(b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Bag failure can be indicated by a significant drop in the baghouses pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

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

D.7.9 Record Keeping Requirements

(a) To document compliance with Condition D.7.4, the Permittee shall maintain a daily record of visible emission notations of the baghouse and wet scrubber stack exhausts from the explosive bomb loading operations and the aluminum powder sieve. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of a visible emission notation (e.g. the process did not operate that day).

(b) To document compliance with Condition D.7.5, the Permittee shall maintain a daily record of the pressure drop across the scrubbers controlling the explosive bomb loading operations (screening and weighing of TNT in Building 153 and the melting and mixing of aluminum powder and TNT in Building 152). The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).

(c) To document compliance with Condition D.7.6, the Permittee shall maintain a daily record of the pressure drop across the baghouse controlling the explosive bomb loading operation (screening and weighing aluminum powder) and the aluminum powder sieve. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).

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

**SECTION D.8 FACILITY OPERATION CONDITIONS**

**Emission Unit Description**

(h) One natural gas-fired rotary kiln furnace in Building 69, used for white phosphorous conversion to phosphoric acid, constructed in 1983, with a maximum process weight rate of 480 pounds per hour, and equipped with an integral variable throat venturi scrubber for particulate control.

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

**Emissions Limitations and Standards [326 IAC 2-7-5(1)]**

D.8.1 Particulate Matter Emissions Limitations [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate matter (PM) emissions from the rotary kiln shall not exceed 1.58 pounds per hour when operating at a process weight rate of 0.24 tons per hour.

The pounds per hour limitations were calculated with the following equation:

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

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

D.8.2 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

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

**Compliance Determination Requirements**

D.8.3 Particulate Matter (PM)

In order to comply with Condition D.8.1, the variable throat venturi scrubber for PM control shall be in operation at all times the rotary kiln furnace is in operation and the Permittee shall operate the control device in accordance with manufacturer's specifications.

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

D.8.4 Visible Emissions Notations

(a) Visible emission notations of the variable throat venturi scrubber stack exhaust from the rotary kiln furnace shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take

response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

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

D.8.5 Record Keeping Requirements

(a) To document compliance with Condition D.8.4, the Permittee shall maintain a daily record of visible emission notations of the variable throat venturi scrubber stack exhaust from the rotary kiln furnace. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of a visible emission notation (e.g. the process did not operate that day).

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

## SECTION D.9 FACILITY OPERATION CONDITIONS

**Emission Unit Description**

(i) Service Station (Gasoline/Diesel Dispensing), identified as CRN-3280-04-17-X23, located in Building 3280, with a maximum usage of 350,000 gallons of unleaded gasoline per year; and 350,000 gallons of diesel per year.

(1) Two (2) above ground vertical fixed-roof cone tanks, storing unleaded gasoline, constructed in 1995, identified as:

(A) CRN-3280-01-17-X23, located in Building 3280, with a maximum capacity of 11,600 gallons (43.9 $m^3$), and equipped with a vapor recovery system of 99.9+% removal efficiency;

(B) CRN-3280-02-17-X23, located in Building 3280, with a maximum capacity of 11,600 gallons (43.9 $m^3$), and equipped with a vapor recovery system of 99.9+% removal efficiency.

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

**Emissions Limitations and Standards [326 IAC 2-7-5(1)]**

D.9.1 Gasoline Dispensing Facilities [326 IAC 8-4-6]

Pursuant to 326 IAC 8-4-6 (Gasoline Dispensing Facilities),

(a) No owner or operator shall allow the transfer of gasoline between any transport and any storage tank unless such tank is equipped with the following:
(1) A submerged fill pipe.
(2) Either a pressure relief valve set to release at no less than seven-tenths (0.7) pounds per square inch or an orifice of five-tenths (0.5) inch in diameter.
(3) A vapor balance system connected between the tank and the transport, operating according to manufacturer's specifications.

(b) If the owner or the employees of the owner are not present during loading, it shall be the responsibility of the owner or the operator of the transport to make certain the vapor balance system is connected between the transport and the storage tank and is operating according to manufacturer's specifications.

D.9.2 Leaks from transports and vapor collection systems; records), [326 IAC 8-4-9]

Pursuant to 326 IAC 8-4-9 (Leaks from transports and vapor collection systems; records), the owner or operator of a vapor balance system or vapor control system shall:

(a) Design and operate the applicable system and the gasoline loading equipment in a manner that prevents:

(1) Gauge pressure from exceeding four thousand five hundred (4,500) pascals (eighteen (18) inches of H2O) and a vacuum from exceeding one thousand five hundred (1,500) pascals (six (6) inches of H2O) in the gasoline transport;

and

(2) Avoidable visible liquid leaks during loading or unloading operations at gasoline dispensing facilities, bulk plants, and bulk terminals; and

(b) Within fifteen (15) days, repair and retest a vapor balance, collection, or control system that exceeds the limits in subdivision (a).

(c) Maintain records of all certification testing, identifying the following:

(1) The vapor balance, vapor collection, or vapor control system.

(2) The date of the test and, if applicable, retest.

(3) The results of the test and, if applicable, retest.

The records shall be maintained in a legible, readily available condition for at least two (2) years after the date the testing and, if applicable, retesting were completed.

(d) During compliance tests conducted under 326 IAC 3-6 (stack testing), each vapor balance or control system shall be tested applying the standards described in 326 IAC 8-4-9 (d)(1)(B). Testers shall use 40 CFR 60, Appendix A, Method 21 to determine if there are any leaks from the hatches and the flanges of the gasoline transports. If any leak is detected, the transport cannot be used for the capacity of the compliance test of the bulk gas terminal. The threshold for leaks shall be as follows:

(1) Five hundred (500) parts per million methane for all bulk gas terminals subject to NESHAP/MACT (40 CFR 63, Subpart R).

(2) Ten thousand (10,000) parts per million methane for all bulk gas terminals subject to New Source Performance Standards (40 CFR 60, Subpart XX) and for all other bulk gas terminals.

D.9.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

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

**Compliance Determination Requirements**

D.9.4 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 8-4-6(l)]

The Permittee is required to retest all vapor collection and control systems for vapor leakage and blockage, and successfully pass the test, at least every five (5) years or upon major system replacement or modification. A major system modification is considered to be replacing, repairing, or upgrading seventy five percent (75%) or more of vapor collection and control system of the facility.

**Emission Unit Description**

(j) Testing of fuses, boosters, other explosive devices and dissection of batteries, consisting of:

(1) One (1) containment chamber in Building 2167, constructed in 1986, used to test burn pyrotechnic items, with a maximum process weight rate of 0.66 pounds per hour.

(2) Ten (10) test cells in Building 3235, constructed in 1991, used to test lithium batteries, with a maximum throughput of 149 batteries per year, using a vertical packed-bed tower to control particulate matter emissions.

(3) One (1) battery dissection fume hood in Building 3235, permitted to construct in 2007, used to dissect batteries, using a scrubber for control, with a maximum throughput of 730 batteries per year.

(4) One (1) containment chamber in Building 142, constructed in 1995, used to test detonation of fuses, boosters and other explosive devices, with a maximum process weight rate of 0.05 pounds per hour, using a baghouse to control particulate matter emissions.

(5) One (1) flare testing operation in Building 2869, constructed in 1977, identified as CRN-2869-01-02-V01; using a baghouse for control and having a combined maximum process weight rate less than 100 pounds per hour.

(6) One (1) flare testing operation in Building 366, constructed in 1988, identified as CRN-0366-01-02-V01; using a baghouse for control and having a combined maximum process weight rate less than 100 pounds per hour.

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

**Emissions Limitations and Standards [326 IAC 2-7-5(1)]**

D.10.1 Particulate Matter Emissions Limitations [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate matter (PM) emissions from the testing of fuses, boosters and other explosive devices shall not exceed the limitations in the table below:

| Unit Description | Maximum Throughput Rate (tons/hr) | Particulate Emission Limit (lbs/hr) |
|---|---|---|
| Testing of Fuses, Boosters and Other Explosive Devices (Containment Chamber in Building 2167) | < 0.05 | < 0.551 |
| Testing of Fuses, Boosters and Other Explosive Devices (Test Cells in Building 3235) | < 0.05 | < 0.551 |
| Testing of Fuses, Boosters and Other Explosive Devices (Containment Chamber in Building 142) | < 0.05 | < 0.551 |
| Testing of Fuses, Boosters and Other Explosive Devices (Flare Testing in Buildings 2869 and 366) | < 0.05 | < 0.551 |

The pounds per hour limitations were calculated with the following equation:

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

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

D.10.2 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

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

**Compliance Determination Requirements**

D.10.3 Particulate Matter (PM)

(a) In order to comply with Condition D.10.1, the vertical packed bed tower and baghouse for PM control shall be in operation at all times when the testing operations are in use and the Permittee shall operate the control devices in accordance with manufacturer's specifications.

(b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

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

D.10.4 Battery Dissection

The Permittee shall record the Manufacturer's Safety Data Sheet serial number for each battery dissected and the number of batteries dissected per day.

D.10.5 Visible Emissions Notations

(a) Visible emission notations of the vertical packed-bed tower, battery dissection fume hood and baghouse stack exhausts from the testing operations shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

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D.10.6 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouse used in conjunction with the containment chamber in Building 142, at least once per day when the testing unit is in operation. The Permittee shall record the pressure drop across the baghouses used in conjunction with the flare testing operations in Buildings 2869 and 366, at least once per day when the flare testing units are in operation. When for any one reading, the pressure drop across the baghouses is outside the normal range of 2.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

D.10.7 Broken or Failed Bag Detection

(a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

(b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Bag failure can be indicated by a significant drop in the baghouses pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

D.10.8 Vertical Packed-Bed Tower Failure Detection

In the event that a vertical packed-bed tower failure has been observed:

Failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

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

D.10.9 Record Keeping Requirements

(a) To document compliance with Condition D.10.4, the Permittee shall maintain daily records of the number of batteries dissected and each batteries Manufacturer's Safety Data Sheet serial number.

(b) To document compliance with Condition D.10.5, the Permittee shall maintain a daily record of visible emission notations of the vertical packed-bed tower, battery dissection fume hood and baghouse stack exhausts from the dissection of batteries, testing of fuses, boosters and other explosive devices. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of a visible emission notation (e.g. the process did not operate that day).

(c) To document compliance with Condition D.10.6, the Permittee shall maintain a daily record of the pressure drop across the baghouse used on conjunction with the containment chamber in Building 142. The Permittee shall include in its daily record when a pressure

drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).

(d) To document compliance with Condition D.10.6, the Permittee shall maintain a daily record of the pressure drop across the baghouse used on conjunction with the flare testing operations in Building 2869 and 366. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).

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

## SECTION D.11 FACILITY OPERATION CONDITIONS

**Emission Unit Description**

**Insignificant Activities:**

(a) Fuel oil-fired combustion sources with heat input less than two million (2,000,000) Btu per hour and firing fuel containing less than five-tenths (0.5) percent sulfur by weight.

(1) Two (2) 1.3 MMBtu/hr natural gas/fuel oil-fired boilers, identified as Cleaver Brooks CRN-0180-01-17-W22 and CRN-0180-02-17-W22, constructed in 1999, located in Building 180. [326 IAC 6-2-4]

(2) One (1) 3.75 MMBtu/hr natural gas/#2 fuel oil boiler, identified as CRN-0199-03-23-JJ14, constructed in 2008 and located in Building 199 [326 IAC 6-2-4].

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

**Emissions Limitations and Standards [326 IAC 2-7-5(1)]**

D.11.1 Particulate Matter Emissions Limitations [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate Matter Emissions for Sources of Indirect Heating):

(a) particulate (PM) emissions from the two (2) 1.3 MMBtu/hr fuel-oil fired boilers, and the 3.75 MMBtu/hr boiler, all constructed after September 21, 1983 and located in Buildings 180 and 199, shall not exceed 0.18 pound per million Btu heat input (lb/MMBtu) each.

**SECTION D.12 FACILITY OPERATION CONDITIONS**

**Emission Unit Description**

**Insignificant Activities:**

(b) Natural gas-fired combustion sources with inputs less than ten million (10,000,000) Btu per hour, identified as:

(1) Natural gas-fired boilers, existing and in operation before September 21, 1983, located in the following buildings:

(i) one boiler in each of the following buildings: 1, 2, 4, 7,14, 18, 38, 45, 181, 224, 252, 300, 479, 1817, 1909, 2037, 2038, 2044, 2059, 2074, 2167, 2506, 2516, 2517, 2693, 2720, 2721, 2748, 2749, 2889, 2931, 2987, 2993, 3006 [326 IAC 6-2-3]

(ii) two boilers in each of the following buildings: 2521 [326 IAC 6-2-3]

(iii) One (1) 1.63 MMBtu natural gas-fired boiler, constructed in July 1983, located in Building 74 [326 IAC 6-2-3]

(2) Natural gas-fired boilers, constructed after September 21, 1983, located in the following buildings:

(i) one boiler in each of the following buildings: 1, 5, 7, 8, 10, 34, 36, 40, 47, 66, 74, 77, 105, 128, 180, 363, 365, 366, 966, 1141, 1149, 2036, 2045, 2084, 2518, 2521, 2692, 2694, 2807, 2902, 2963, 2995, 3149, 3173, 3188, 3233, 3234, 3235, 3239, 3243, 3250, 3284, 3319, 3324, 3325, 3330C, 3333, 3334, 3339, 3348, 3422 [326 IAC 6-2-4]

(ii) two boilers in each of the following buildings: 39, 180, 364, 2035, 2674, 2906, 3168, 3285, 3330C, 3373, 3395 [326 IAC 6-2-4]

(iii) three boilers in each of the following buildings: 3287 [326 IAC 6-2-4]

(iv) four boilers in each of the following buildings: 3241, 3251, 3330N, 3330S [326 IAC 6-2-4]

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

**Emissions Limitations and Standards [326 IAC 2-7-5(1)]**

D.12.1 Particulate Matter Emissions Limitations [326 IAC 6-2-3]

Pursuant to 326 IAC 6-2-3 (Particulate Matter Emissions for Sources of Indirect Heating), the PM emissions from the boilers listed in subsection (1) above, which were existing and in operation prior to September 21, 1983, shall not exceed 0.05 pounds per million Btu heat input (lb/MMBtu).

D.12.2 Particulate Matter Emissions Limitations [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate Emissions Limitations for Source of Indirect Heating), particulate (PM) emissions from the boilers listed in subsection (2) above, which were constructed after September 21, 1983, shall not exceed the following (in pounds per million Btu heat input (lb/MMBtu) for each boiler).

| Building Location | Installation Date | Pt (lb/MMBtu) |
|---|---|---|
| 7, 74, 2521 | 1983 (after September 21) | 0.28 |
| 5,36,2694,2807 | 1984 | 0.26 |
| 66,2035,2036 | 1985 | 0.24 |
| 34,40,47,77,363,365,3149 | 1986 | 0.23 |
| 366,3168,3188 | 1987 | 0.22 |
| 364,2045,3173 | 1989 | 0.21 |
| 39,3239 | 1990 | 0.21 |
| 8,2902 | 1991 | 0.21 |
| 10,3233,3234 | 1992 | 0.20 |
| 2963,3235,3241,3243,3250,3330N, 3330S,3330C | 1993 | 0.19 |
| 3251 | 1994 | 0.19 |
| 2995,3168,3284,3287 | 1995 | 0.19 |
| 3285,3291 | 1996 | 0.19 |
| 3319 | 1998 | 0.18 |
| 180,3324 | 1999 | 0.18 |
| 2518 | 2000 | 0.18 |
| 180,3334 | 2001 | 0.18 |
| 2084,3339 | 2002 | 0.18 |
| 3325,3333 | 2004 | 0.18 |
| 3291, 3330C | 2008 | 0.18 |

**Emission Unit Description**

(k) One (1) contained detonation chamber, identified as P01, constructed in 2001, located in building 3339, with a maximum capacity of 7,500 pounds per hour gross weight of munitions, 750 pounds per hour net explosive weight (NEW), equipped with one (1) baghouse for particulate control, and exhausting to stack S01.

(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 2-7-5(1)]**

D.13.1 PSD Minor Limits [326 IAC 2-2]

(a) The input to the Contained Detonation Chamber (P01) shall not exceed 1,700 tons of net explosive weight per consecutive twelve (12) month period, with compliance determined at the end of each month.

(b) The carbon monoxide (CO) emissions from the Contained Detonation Chamber shall not exceed 0.0568 pounds of CO per pound of net explosive weight (NEW) treated.

(c) The nitrogen oxide (NOx) emissions from the Contained Detonation Chamber shall not exceed 0.0085 pounds of NOx per pound of net explosive weight (NEW) treated.

(d) The particulate matter (PM) emissions from the Contained Detonation Chamber shall not exceed 0.0003 pounds of PM per pound of net explosive weight (NEW) treated .

(e) The particulate matter, with a diameter of less than 10 micrometers (PM-10), emissions from the Contained Detonation Chamber shall not exceed 0.0003 pounds of PM-10 per pound of net explosive weight (NEW) treated.

Compliance with these limits and Condition D14.1 shall limit the carbon monoxide emissions to less than 100 tons per year, the nitrogen oxide emissions to less than 40 tons per year, the PM emissions to less than 25 tons per year, and the PM-10 emissions to less than 15 tons per year and render 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable.

D.13.2 RCRA Air Standards and Limitations

The Permittee shall comply with all applicable provisions of RCRA, as amended by the Hazardous and Solid Waste amendments of 1984 (HSWA).

D.13.3 Particulate Matter Emissions Limitations [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Process Operations), the particulate (PM) emissions from the contained detonation chamber shall not exceed 2.13 pounds per hour when operating at a process weight rate of 750 pounds per hour of net explosive weight.

D.13.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

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

**Compliance Determination Requirements**

D.13.5 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

(a) Within 90 days after issuance of this Part 70 permit or operation of the detonation chamber, the Permittee shall conduct a one-time stack test to verify the emission factor used to determine the potential CO emissions from the detonation chamber baghouse utilizing methods as approved by the Commissioner.

(b) Within 90 days after issuance of this Part 70 permit or operation of the detonation chamber, in order to demonstrate compliance with Conditions D.13.1 and D.13.3, the Permittee shall test for PM, and PM-10 on the detonation chamber baghouse utilizing methods as approved by the Commissioner. PM-10 includes filterable and condensable PM-10. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration.

Testing shall be conducted in accordance with Section C - Performance Testing.

D.13.6 Particulate Matter (PM and PM-10)

(a) In order to comply with Conditions D.13.1(d), D.13.1(e), and D.13.3, the baghouse for particulate (PM and PM-10) control shall be in operation and control emissions at all times the contained detonation chamber is in operation and the Permittee shall operate the control device in accordance with manufacturer's specifications.

(b) In the event that baghouse cartridge failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

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

D.13.7 Visible Emissions Notations

(a) Visible emission notations of the CDC baghouse stack exhaust shall be performed once per day during normal daylight operations when the CDC is in operation. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.13.8 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouse used in conjunction with the contained detonation chamber, at least once per day when the contained detonation chamber is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 0.01 and 4.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to

Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

D.13.9 Broken or Failed Baghouse Cartridge Detection

(a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

(b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Baghouse cartridge failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

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

D.13.10 Record Keeping Requirements

(a) To document compliance with Condition D.13.1(a), the Permittee shall maintain records of the total amount of the Net Explosive Weight (NEW) of the materials fed to the contained detonation chamber (P01) each month.

(b) To document compliance with Condition D.13.7, the Permittee shall maintain a daily record of visible emission notations of the contained detonation chamber baghouse stack exhaust. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of a visible emission notation (e.g. the process did not operate that day).

(c) To document compliance with Condition D.13.8, the Permittee shall maintain records of the pressure drop across the baghouse controlling the contained detonation chamber. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).

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

D.13.11 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.13.1(a) shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

## SECTION D.14 FACILITY OPERATION CONDITIONS

**Emission Unit Description**

(l) One (1) mobile plasma treatment system (MPTS), identified as P02, constructed in 2002, located in Building 3345, with a maximum capacity of 3,600 pounds per hour gross weight of explosives, 500 pounds per hour net explosive weight (NEW), equipped with one (1) afterburner for VOC and CO control, one (1) semi-dry scrubber for HCl and PM control, and one (1) Selective Catalytic Reduction (SCR) unit for $NO_x$ control and exhausting at stack S02. The semi-dry scrubber is composed of an evaporative cooler, sodium bicarbonate injection, and a pulse-jet baghouse.

(m) One (1) diesel-fueled, 4160-volt, 1000 kW generator which powers the MPTS, constructed in 2002, exhausting at stack S03.

(n) One (1) APE 1236 rotary kiln incinerator, identified as P03, constructed in 2003, located in Building 3343, used to deactivate (combust) the munitions and associated components, with a maximum feed rate of 240 pounds of net explosive weight (NEW) per hour and a maximum heat input rate of 3.0 MMBtu/hr. The waste stream vents through one (1) cyclone (identified as C05, for PM control), one (1) 8.0 MMBtu/hr natural gas-fired afterburner (identified as C06, for VOC and CO control), and one (1) baghouse (identified as C07, for PM control) and exhausts through stack S03.

(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 2-7-5(1)]**

D.14.1 PSD Minor Limits [326 IAC 2-2]

(a) For the Mobile Plasma Treatment System (MPTS) and diesel generator:

(1) The total amount of diesel fuel used in the generator engine shall be limited to 89,604 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.

(2) The combined carbon monoxide (CO) emissions from the mobile plasma treatment system (MPTS) and diesel generator shall not exceed 3.23 pounds per hour of operation.

(3) The combined nitrogen oxide (NOx) emissions from the mobile plasma treatment system (MPTS) and diesel generator shall not exceed 28.23 pounds per hour of operation.

(b) The net explosive weight (NEW) of the materials fed into the APE 1236 incinerator (P03) shall not exceed 347 tons per consecutive twelve (12) month period, with compliance determined at the end of each month.

(c) Baghouse C07 and Cyclone C05, for the APE 1236 incinerator (P03), shall be in operation at all times that the APE 1236 incinerator (P03) is in operation. The particulate matter (PM and PM-10) emissions from baghouse C07 shall not exceed 2.017 pounds per ton of net explosive weight (NEW) treated.

Compliance with these limits, together with the limits on the Contained Detonation Chamber in Condition D.13.1, will limit the potential to emit of NOx and CO to less than 40 tons and 100 tons, respectively; and the PM and PM10 emissions to less than 25 tons and 15 tons, respectively ,per twelve (12) consecutive month period; and render 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable.

D.14.2 RCRA Air Standards and Limitations

The Permittee shall comply with all self-implementing provisions of any future air regulations promulgated under the provisions of Section 30004(n) of RCRA, as amended by the Hazardous and Solid Waste Amendments of 1984 (HSWA).

D.14.3 Incinerator Requirements [326 IAC 4-2]

Pursuant to 326 IAC 4-2, the MPTS (P02) and the APE 1236 (P03) incinerator shall:

(a) Consist of primary and secondary chambers or the equivalent;

(b) Be equipped with a primary burner unless burning wood products;

(c) Comply with 326 IAC 5-1 and 326 IAC 2;

(d) Be maintained, operated, and burn waste in accordance with the manufacturer's specifications or an operation and maintenance plan as specified in 326 IAC 4-2-2(c); and

(e) Not emit particulate matter in excess of three-tenths (0.3) pounds of particulate matter per one thousand (1,000) pounds of dry exhaust gas at standard condition corrected to fifty percent (50%) excess air.

If any of the above requirements are not met, the Permittee shall stop charging the incinerator until adjustments are made that address the underlying cause of the deviation.

D.14.4 Hazardous Waste Combustors NESHAP [40 CFR Part 63, Subpart EEE]

The Permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart EEE in Condition E.2.2 for the MPTS (P02) and the APE 1236 incinerator (P03).

D.14.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the hazardous waste combustors, MPTS (including the generator) and APE 1236 and their control devices.

**Compliance Determination Requirements**

D.14.6 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1-3(i)(8)][326 IAC 2-1.1-11] [40 CFR Part 63, Subpart EEE]

(a) The Permittee shall comply with the testing requirements of 40 CFR Part 63, Subpart EEE in Condition E.2.2 for the MPTS (P02) and the APE 1236 incinerator (P03).

(b) Pursuant to 326 IAC 3-6-3(b)(2), any tests shall be conducted under representative operating conditions.

(c) Pursuant to 326 IAC 3-6-3(b), during any performance tests, the MPTS (P02) and the APE 1236 incinerator (P03) must be operating at 95 percent of its maximum production capacity or more, or under other capacities or conditions specified and approved by IDEM, to be considered a valid test.

(d) Testing shall be conducted in accordance with Section C - Performance Testing.

D.14.7 Continuous Emissions Monitoring [326 IAC 3-5][326 IAC 2-7-6(1),(6)]

(a) Pursuant to 326 IAC 3-5 (Continuous Monitoring of Emissions) and 326 IAC 2, a CEMS for the MPTS (P02) and the APE 1236 incinerator (P03) shall be installed, calibrated, maintained, and continuously operated pursuant to 326 IAC 3-5. The CEMS shall meet the performance specifications of 326 IAC 3-5-2.

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

D.14.8 Record Keeping Requirements

(a) Pursuant to 326 IAC 3-7-5(a), the Permittee shall develop a standard operating procedure (SOP) to be followed for sampling, handling, analysis, quality control, quality assurance, and data reporting of the information collected pursuant to 326 IAC 3-7-2 through 326 IAC 3-7-4. In addition, any revision to the SOP shall be submitted to IDEM, OAQ.

(b) To document compliance with Condition D.14.1(a)(1), the Permittee shall maintain records of the fuel usage of the MPTS generator.

(c) To document compliance with Condition D.14.1(b), the Permittee shall maintain records of the total amount of the Net Explosive Weight (NEW) of the materials fed to the APE 1236 incinerator (P03) each month.

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

D.14.9 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.14.1(a)(1) and D.14.1(b) shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

**Emission Unit Description**

(o) One (1) flare manufacturing process located in Buildings 2504 and 145, constructed in 2002, with a maximum manufacturing capacity of 180 pounds of magnesium teflon viton (MTV) compound per day.

(p) One (1) flare manufacturing process, located in Building 198, constructed in 2002, with a maximum manufacturing capacity of 150 pounds of magnesium teflon viton (MTV) compound per day, discharging to Stacks 1 through 11.

(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 2-7-5(1)]**

D.15.1 Volatile Organic Compounds and PSD Minor Limit [326 IAC 8-1-6][326 IAC 2-2]

(a) The total number of batches from the flare manufacturing in Buildings 2504 and 145 shall be limited to less than 833 batches per consecutive twelve (12) month period, with compliance determined at the end of each month. VOC emissions shall not exceed 0.015 tons/batch and the maximum weight of each batch shall not exceed 60 pounds.

(b) The total number of batches from the flare manufacturing in Building 198 shall be limited to less than 833 batches per consecutive twelve (12) month period, with compliance determined at the end of each month. VOC emissions shall not exceed 0.015 tons/batch and the maximum weight of each batch shall not exceed 60 pounds.

Compliance with the above limits combined with VOC emissions from P02 (Building 3345), the generator which powers P02, and P01(Building 3339), shall limit the VOC emissions from this modification to less than 40 tons per year and limit VOC emissions from Buildings 2504 and 145; and 198 to less than 25 tons per year and render 326 IAC 2-2 and 326 IAC 8-1-6 not applicable to the flare manufacturing processes in Buildings 2504 and 145; and 198.

D.15.2 Hazardous Air Pollutants [326 IAC 2-4.1][40 CFR Part 63]

(a) The total number of batches from the flare manufacturing process in Buildings 2504 and 145 shall be limited to less than 833 batches per consecutive twelve (12) month period, with compliance determined at the end of each month.

(b) Total HAP emissions from the flare manufacturing process in Buildings 2504 and 145 shall not exceed 0.012 tons/batch and the maximum weight of each batch shall not exceed 60 pounds.

(c) The total number of batches from the flare manufacturing process in Building 198 shall be limited to less than 833 batches per consecutive twelve (12) month period, with compliance determined at the end of each month.

(d) Total HAP emissions from the flare manufacturing process in Building 198 shall not exceed 0.012 tons/batch and the maximum weight of each batch shall not exceed 60 pounds.

Compliance with these limits shall limit emissions of any single HAP and any combination of HAPs from the flare manufacturing process to less than ten (10) and twenty-five (25) tons per twelve (12) consecutive month period, respectively, and render the requirements of 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants) not applicable to the flare manufacturing processes in Buildings 2504 and 145, and 198.

D.15.3 Miscellaneous Organic Chemical Manufacturing NESHAP [40 CFR Part 63, Subpart FFFF]

The Permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart FFFF in Condition E.4.2 for the flare manufacturing operations in Buildings 2504, 145 and 198.

D.15.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the flare manufacturing operations.

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

D.15.5 Record Keeping Requirements

(a) To document compliance with Conditions D.15.1 and D.15.2 the Permittee shall maintain records in accordance with (1) through (3) below. Records maintained for (1) through (3) shall be taken monthly and shall be completed and sufficient to establish compliance with the VOC and HAP emission limits established in Conditions D.15.1 and D.15.2.

(1) The total number of batches processed each month for each flare manufacturing process.

(2) The weight of HAPs and VOCs emitted for each manufacturing process for each month.

(3) The weight of HAPs and VOCs emitted for each manufacturing process for each compliance period.

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

D.15.6 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.15.1 and D.15.2 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

**SECTION D.16 EMISSIONS UNIT OPERATION CONDITIONS**

**Emissions Unit Description: Specifically Regulated Insignificant Activities**
(d) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6. [326 IAC 8-3-2] [326 IAC 8-3-5].

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

**Emission Limitations and Standards [326 IAC 2-7-5(1)]**

D.16.1 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

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

(a) Equip the cleaner with a cover;

(b) Equip the cleaner with a facility for draining cleaned parts;

(c) Close the degreaser cover whenever parts are not being handled in the cleaner;

(d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;

(e) Provide a permanent, conspicuous label summarizing the operation requirements;

(f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

D.16.2 Volatile Organic Compounds (VOC) [326 IAC 8-3-5]

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

(1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:

(A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius ($38^{O}$C) (one hundred degrees Fahrenheit ($100^{O}$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 ($38^{O}$C) (one hundred degrees Fahrenheit ($100^{O}$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$^{O}$C) (one hundred degrees Fahrenheit (100$^{O}$F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9$^{O}$C) (one hundred twenty degrees Fahrenheit (120$^{O}$F)):

(A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.

(B) A water cover when solvent is used is insoluble in, and heavier than, water.

(C) Other systems of demonstrated equivalent control such as a refrigerated chiller of 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.

**Emission Unit Description**

**Insignificant Activities:**

(c) One (1) diesel-fired emergency generator, located at Building 10, with a maximum capacity of 268 horsepower, installed in 2007 with a manufacturer's date of after April 1, 2006, and a displacement of less than 10 liters per cylinder.

Under NSPS, Subpart IIII, the 268 horsepower diesel-fired emergency generator is considered an affected facility.

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

**New Source Performance Standards (NSPS) Requirements [326 IAC 2-7-5(1)]**

E.1.1 General Provisions Relating to New Source Performance Standards [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 for the one (1) 268 horsepower diesel-fired emergency generator, except as otherwise specified in 40 CFR Part 60, Subpart IIII.

(b) Pursuant to 40 CFR 60.19, 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 Standards of Performance for Stationary Compression Ignition Internal Combustion Engines [40 CFR Part 60, Subpart IIII]

Pursuant to 40 CFR Part 60, Subpart IIII, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart IIII, which are incorporated by reference as 326 IAC 12-1, for the one (1) 268 horsepower diesel-fired emergency generator as specified as follows:

(1) 40 CFR Part 60.4200
(2) 40 CFR Part 60.4202
(3) 40 CFR Part 60.4205
(4) 40 CFR Part 60.4206
(5) 40 CFR Part 60.4207
(6) 40 CFR Part 60.4209
(7) 40 CFR Part 60.4211
(8) 40 CFR Part 60.4214
(9) 40 CFR Part 60.4218
(10) 40 CFR Part 60.4219

E.1.3 One Time Deadlines Relating to the Standards of Performance for Stationary Compression Ignition Internal Combustion Engines [40 CFR Part 60, Subpart IIII]

| Requirement | Rule Cite | Affected Facility | Deadline |
|---|---|---|---|

| Requirement | Rule Cite | Affected Facility | Deadline |
|---|---|---|---|
| Notification of the Date of Construction | 40 CFR 60.4214(b) | Emergency Generator (268 horsepower diesel-fired generator) | Not required for emergency stationary internal combustion engines |
| Notification of the Date of Initial Startup | 40 CFR 60.4214(b) | Emergency Generator (268 horsepower diesel-fired generator) | Not required for emergency stationary internal combustion engines |
| Initial Performance Test | 40 CFR 60.4218 | Emergency Generator (268 horsepower diesel-fired generator) | Not required because the engine displacement is less than 30 liters per cylinder |

**SECTION E.2 FACILITY OPERATION CONDITIONS**

**Emission Unit Description**

(m) One (1) mobile plasma treatment system (MPTS), identified as P02, constructed in 2002, in Building 3345, with a maximum capacity of 3,600 pounds per hour gross weight of explosives, 500 pounds per hour net explosive weight (NEW), equipped with one (1) afterburner for VOC and CO control, one (1) semi-dry scrubber for HCl and PM control, and one (1) Selective Catalytic Reduction (SCR) unit for $NO_x$ control and exhausting at stack S02. The semi-dry scrubber is composed of an evaporative cooler, sodium bicarbonate injection, and a pulse-jet baghouse.

Under NESHAP, Subpart EEE, the mobile plasma treatment system (MPTS) (P02) is considered a new affected facility.

(o) One (1) APE 1236 rotary kiln incinerator, identified as P03, constructed in 2003, located in Building 3343, used to deactivate (combust) the munitions and associated components, with a maximum feed rate of 240 pounds of net explosive weight (NEW) per hour and a maximum heat input rate of 3.0 MMBtu/hr. The waste stream vents through one (1) cyclone (identified as C05, for PM control), one (1) 8.0 MMBtu/hr natural gas-fired afterburner (identified as C06, for VOC and CO control), and one (1) baghouse (identified as C07, for PM control) and exhausts through stack S03.

Under NESHAP, Subpart EEE, the APE 1236 rotary kiln incinerator (P03) is considered a new affected facility.

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

**National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements [326 IAC 2-7-5(1)]**

E.2.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants (NESHAP) [326 IAC 20-1] [40 CFR Part 63, Subpart A]

(a) Pursuant to 40 CFR 63.1200(c), the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1-1, in accordance with the schedule specified in Table 1 of 40 CFR Part 63, Subpart EEE.

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

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

E.2.2 Hazardous Waste Combustors NESHAP [40 CFR Part 63, Subpart EEE]

The Permittee shall comply with the provisions of 40 CFR Part 63, Subpart EEE for the mobile plasma treatment system (MPTS), identified as P02, and the APE 1236 rotary kiln incinerator, identified as P03, as specified as follows:

(1) 40 CFR Part 63.1200
(2) 40 CFR Part 63.1201
(3) 40 CFR Part 63.1203
(4) 40 CFR Part 63.1206

(5) 40 CFR Part 63.1207
(6) 40 CFR Part 63.1208
(7) 40 CFR Part 63.1209
(8) 40 CFR Part 63.1210
(9) 40 CFR Part 63.1211
(10) 40 CFR Part 63.1212
(11) 40 CFR Part 63.1214
(12) 40 CFR Part 63.1215
(13) 40 CFR Part 63.1219
(14) 40 CFR Part 63.1211
(15) 40 CFR Part 63.1212

**SECTION E.3 FACILITY OPERATION CONDITIONS**

**Emission Unit Description**

(b) Boilers:

(1) Cleaver Brooks natural gas fired boiler, identified as CRN-0115-01-23-GG12, located in Building 115, constructed in 1997, with a maximum capacity of 16.75 MMBtu/hr, and exhausting to stack CRN-0115-01-23-GG12-S.

Under NSPS, Subpart Dc, Boiler CRN-0115-01-23-GG12 is considered an affected facility.

(3) Cleaver Brooks natural gas-fired boiler, identified as CRN-0128-01-17-W25, located in Building 128, constructed in 1997, with a maximum capacity of 16.75 MMBtu/hr, and exhausting to stack CRN-0128-01-17-W25-S.

Under NSPS, Subpart Dc, Boiler CRN-0128-01-17-W25 is considered an affected facility.

(4) Cleaver Brooks natural gas and/or distillate fuel No. 2-fired boiler, identified as CRN-0128-03-17-W25, located in Building 128, constructed in 1997, with a maximum capacity of 16.75 MMBtu/hr, and exhausting to stack CRN-0128-03-17-W25-S.

Under NSPS, Subpart Dc, Boiler CRN-0128-03-17-W25 is considered an affected facility.

(22) Cleaver Brooks natural gas and/or distillate fuel No.2-fired boiler, identified as CRN-0115-02-23-GG12, located in Building 115, constructed in 1997, with a maximum capacity of 16.75 MMBtu/hr, and exhausting to stack CRN-0115-02-23-GG12-S.

Under NSPS, Subpart Dc, Boiler CRN-0115-02-23-GG12 is considered an affected facility.

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

**New Source Performance Standards (NSPS) Requirements [326 IAC 12-1]**

E.3.1 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR Part 60, Subpart A]

Pursuant to 40 CFR Part 60, Subpart Dc, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1-1 for the four (4) natural gas and/or fuel oil fired boilers (CRN-0128-01-17-W25, CRN-0128-03-17-W25, CRN-0115-01-23-GG12, and CRN-0115-02-23-GG12) as specified in Appendix A of 40 CFR Part 60, in accordance with the schedule in 40 CFR Part 60, Subpart Dc.

E.3.2 Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units [40 CFR Part 60, Subpart Dc][326 IAC 12-1]

Pursuant to 40 CFR Part 60, Subpart Dc, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart Dc, which are incorporated by reference as 326 IAC 12-1 for the four (4) boilers (CRN-0128-01-17-W25, CRN-0128-03-17-W25, CRN-0150-01-17-CC23, and CRN-0150-03-17-CC23) as specified as follows:

(1) 40 CFR Part 60.40c
(2) 40 CFR Part 60.41c
(3) 40 CFR Part 60.42c

(4) 40 CFR Part 60.44c
(5) 40 CFR Part 60.46c
(6) 40 CFR Part 60.48c

E.3.3 One Time Deadlines Relating to Small Industrial-Commercial-Institutional Steam Generating Units NSPS [40 CFR Part 60, Subpart Dc][326 IAC 12-1]

The Permittee shall comply with the following notification requirements by the dates listed:

| Requirement | Rule Cite | Affected Facility | Deadline |
|---|---|---|---|
| Initial Notification of Construction | 40 CFR 60.7(a)(1) | Boilers CRN-0128-01-17-W25, CRN-0128-03-17-W25, CRN-0150-01-17-CC23, and CRN-0150-03-17-CC23 | 30 days within construction |
| Initial Notification of Start-up | 40 CFR 60.7(a)(3) | Boilers CRN-0128-01-17-W25, CRN-0128-03-17-W25, CRN-0150-01-17-CC23, and CRN-0150-03-17-CC23 | 15 days within start-up |

**Emission Unit Description**

(o) One (1) flare manufacturing process located in Buildings 2504 and 145, constructed in 2002, with a maximum manufacturing capacity of 180 pounds of magnesium teflon viton (MTV) compound per day.

(p) One (1) flare manufacturing process, located in Building 198, constructed in 2002, with a maximum manufacturing capacity of 150 pounds of magnesium teflon viton (MTV) compound per day, discharging to Stacks 1 through 11.

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

**National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements [326 IAC 2-7-5(1)]**

E.4.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants (NESHAP) [326 IAC 20-1] [40 CFR Part 63, Subpart A]

(a) Pursuant to 40 CFR 63.2540, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1-1, in accordance with the schedule specified in Table 12 of 40 CFR Part 63, Subpart FFFF.

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

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

E.4.2 Miscellaneous Organic Chemical Manufacturing NESHAP [40 CFR Part 63, Subpart FFFF]

The Permittee shall comply with the provisions of 40 CFR Part 63, Subpart FFFF for the flare manufacturing processes located in Buildings 2504, 145, and 198, as specified as follows:

(1) 40 CFR Part 63.2430
(2) 40 CFR Part 63.2435
(3) 40 CFR Part 63.2440
(4) 40 CFR Part 63.2448
(5) 40 CFR Part 63.2450
(6) 40 CFR Part 63.2460
(7) 40 CFR Part 63.2480
(8) 40 CFR Part 63.2495
(9) 40 CFR Part 63.2500
(10) 40 CFR Part 63.2505
(11) 40 CFR Part 63.2515
(12) 40 CFR Part 63.2520
(13) 40 CFR Part 63.2525
(14) 40 CFR Part 63.2540
(15) 40 CFR Part 63.2545
(16) 40 CFR Part 63.2550

# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
# OFFICE OF AIR QUALITY
# PART 70 OPERATING PERMIT
# CERTIFICATION

Source Name: Crane Division, Naval Surface Warfare Center (NSWC Crane)
Source Address: 300 Highway 361, Crane, Indiana 47522
Mailing Address: Code 0592, Building 3260, Crane, IN 47522-5001
Part 70 Permit No.: T101-21308-00005

**This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.**

Please check what document is being certified:

☐ Annual Compliance Certification Letter

☐ Test Result (specify)

☐ Report (specify)

☐ Notification (specify)

☐ Affidavit (specify)

☐ Other (specify)

| |
|---|
| I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. |
| Signature: |
| Printed Name: |
| Title/Position: |
| Phone: |
| Date: |

# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
# OFFICE OF AIR QUALITY

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

## PART 70 OPERATING PERMIT
## EMERGENCY OCCURRENCE REPORT

Source Name: Crane Division, Naval Surface Warfare Center (NSWC Crane)
Source Address: 300 Highway 361, Crane, Indiana 47522
Mailing Address: Code 0592, Building 3260, 300 Highway 361, Crane, IN 47522-5001
Part 70 Permit No.: T101-21308-00005

**This form consists of 2 pages** **Page 1 of 2**

☐ This is an emergency as defined in 326 IAC 2-7-1(12)

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

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

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

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



| |
|---|
| Date/Time Emergency started: |
| Date/Time Emergency was corrected: |
| Was the facility being properly operated at the time of the emergency? Y N |
| Type of Pollutants Emitted: TSP, PM-10, $SO_2$, VOC, $NO_X$, CO, Pb, other: |
| Estimated amount of pollutant(s) emitted during emergency: |
| Describe the steps taken to mitigate the problem: |
| Describe the corrective actions/response steps taken: |
| Describe the measures taken to minimize emissions: |
| If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value: |

Form Completed by:_____

Title / Position: _____

Date:_____

Phone: _____

A certification is not required for this report.

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

## PART 70 OPERATING PERMIT
## SEMI-ANNUAL NATURAL GAS FIRED BOILER CERTIFICATION

Source Name: Crane Division, Naval Surface Warfare Center (NSWC Crane)
Source Address: 300 Highway 361, Crane, Indiana 47522
Mailing Address: Code 0592, Building 3260, 300 Highway 361, Crane, IN 47522-5001
Part 70 Permit No.: T101-21308-00005

Check either Natural Gas Only or Alternate Fuel Burned:

| Unit | Natural Gas Only | Alternate Fuel Burned | Dates of Alternate Fuel Usage |
|---|---|---|---|
| CRN-0115-03-23-GG12 | | | |
| CRN-0128-03-17-W25 | | | |
| CRN-0150-01-17-CC23 | | | |
| CRN-0150-03-17-CC23 | | | |
| CRN-0199-01-23-JJ14 | | | |
| CRN-0199-02-23-JJ14 | | | |
| CRN-2737-01-12-M41 | | | |
| CRN-2737-02-12-M41 | | | |
| CRN-2737-03-12-M41 | | | |
| CRN-2523-01-9-K18 | | | |
| CRN-2523-02-9-K18 | | | |

| |
|---|
| I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.<br><br>Signature: |
| Printed Name: |
| Title/Position: |
| Phone: |
| Date: |

A certification by the responsible official as defined by 326 IAC 2-7-1(34) is required for this report.

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

## Part 70 Quarterly Report

Source Name: Crane Division, Naval Surface Warfare Center (NSWC Crane)
Source Address: 300 Highway 361, Crane, Indiana 47522
Mailing Address: Code 0592, Building 3260, 300 Highway 361, Crane, IN 47522-5001
Part 70 Permit No.: T101-21308-00005
Facility: The Bomb Finishing Line and the Projectile Renovation Operations (CRN-2728-01-12-N42, CRN-2728-02-12-N42, CRN-2728-03-12-N42)
Parameter: VOC emissions
Limit: The total VOC emissions from the Bomb Refinishing Line and the Projectile Renovation Operations shall be limited to less than 40 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

QUARTER: _____YEAR:_____

| Month | Column 1 | Column 2 | Column 1 + Column 2 |
|---|---|---|---|
| | This month | Previous 11 months | 12 months total |
| Month 1 | | | |
| Month 2 | | | |
| Month 3 | | | |

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

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

## Part 70 Quarterly Report

Source Name: Crane Division, Naval Surface Warfare Center (NSWC Crane)
Source Address: 300 Highway 361, Crane, Indiana 47522
Mailing Address: Code 0592, Building 3260, 300 Highway 361, Crane, IN 47522-5001
Part 70 Permit No.: T101-21308-00005
Facility: Contained Detonation Chamber
Parameter: Net Explosive Weight (NEW) input
Limit: The input of NEW to the Contained Detonation Chamber shall be less than 1,700 tons per consecutive twelve (12) month period, with compliance determined at the end of each month.

QUARTER: _____YEAR:_____

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

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

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

## Part 70 Quarterly Report

Source Name: Crane Division, Naval Surface Warfare Center (NSWC Crane)
Source Address: 300 Highway 361, Crane, Indiana 47522
Mailing Address: Code 0592, Building 3260, 300 Highway 361, Crane, IN 47522-5001
Part 70 Permit No.: T101-7341-00005
Facility: Open Burning/Open Detonation Operations
Parameter: Type and amount of waste materials open burned or open detonated
Limit: see tables below

**Months: _____ YEAR: _____**

(1) Ammunition Burning Grounds (ABG)

| Unit Number | Material | Limited Treatment Quantity (NEW) | |
|---|---|---|---|
| | | 8-hour Period (pounds) | Quarterly Period (tons) |
| 3a-ABG | Propellants | 75,000 | 3,412.5 |
| 3b-ABG | Explosives | 25,000 | 1,137.5 |
| 3c-ABG | Production Scrap | 75,000 | 3,412.5 |
| 6-ABG | Red Phosphorous | 1,600 | 72.8 |
| 7-ABG | Pyrotechnics | 200 | 9.1 |
| 8-ABG | Black Powder Slurry | 250 | 11.4 |
| 10-ABG | Contaminated Sludges | 2,000 | 91.0 |
| 11-ABG | Red Phosphorous Sludge | 200 | 9.1 |
| 12-ABG | Explosives/Propellants/ Pyrotechnics | 300 | 13.7 |
| 13-ABG | Explosives/Pyrotechnics | 50,000 | 2,275.0 |
| 4-ABG | Flammable Liquids/Explosives | 200 | 9.1 |
| 5-ABG | Flammable liquids contaminated with reactive materials | 300 | 13.7 |
| 9-ABG | Contaminated Waste Materials | 400 | 18.2 |

(2) Old Rifle Range (ORR)

| Unit Number | Material | Limited Treatment Quantity (NEW) | |
|---|---|---|---|
| | | 8-hour Period (pounds) | Quarterly Period (tons) |
| 3a-ORR | Yellow D | 6,000 | 273.0 |
| 3b-ORR | Projectile Bodies and Yellow D contaminated materials | 9,000 | 409.5 |

(3) Demolition Range

| Unit Number | Material | Limited Treatment Quantity (NEW) | | Actual Usage |
|---|---|---|---|---|
| | | 24-hour Period (pounds) | Quarterly Period (tons) | (tons) |
| 3-DR | Explosives | 55,000 | 2502.5 | |

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

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

## Part 70 Quarterly Report

Source Name: Crane Division, Naval Surface Warfare Center (NSWC Crane)
Source Address: 300 Highway 361, Crane, Indiana 47522
Mailing Address: Code 0592, Building 3260, 300 Highway 361, Crane, IN 47522-5001
Part 70 Permit No.: T101-21308-00005
Facility: Generator for the Mobile Plasma Treatment System
Parameter: Gallons of diesel fuel
Limit: Diesel fuel usage for the Mobile Plasma Treatment System Generator shall not exceed 89,604 gallons per consecutive twelve (12) month period, with compliance determined at the end of each month.

QUARTER: _____YEAR:_____

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

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

# OFFICE OF AIR QUALITY
# COMPLIANCE AND ENFORCEMENT BRANCH

## Part 70 Quarterly Report

Source Name: Crane Division, Naval Surface Warfare Center (NSWC Crane)
Source Address: 300 Highway 361, Crane, Indiana 47522
Mailing Address: Code 0592, Building 3260, 300 Highway 361, Crane, IN 47522-5001
Part 70 Permit No.: T101-21308-00005
Facility: APE 1236 Rotary Kiln Incinerator (P03)
Parameter: Net explosive weight (NEW) input
Limit: The input of NEW to the APE 1236 Rotary Kiln Incinerator (P03) shall be less than 347 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

QUARTER: _____YEAR:_____

| Month | Column 1 | Column 2 | Column 1 + Column 2 |
|---|---|---|---|
| | This month | Previous 11 months | 12 months total |
| Month 1 | | | |
| Month 2 | | | |
| Month 3 | | | |

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

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

## Part 70 Quarterly Report

Source Name: Crane Division, Naval Surface Warfare Center (NSWC Crane)
Source Address: 300 Highway 361, Crane, Indiana 47522
Mailing Address: Code 0592, Building 3260, 300 Highway 361, Crane, IN 47522-5001
Part 70 Permit No.: T101-21308-00005
Facility: Flare Manufacturing Processes in Buildings 2504 and 145
Parameter: Number of batches
Limit: The total number of batches shall be limited to less than 833 batches per consecutive twelve (12) month period, with compliance determined at the end of each month.
Equation: Each batch shall not exceed 60 pounds.

QUARTER: _____YEAR:_____

| Month | Column 1 | Column 2 | Column 1 + Column 2 |
|---|---|---|---|
| | This month | Previous 11 months | 12 months total |
| Month 1 | | | |
| Month 2 | | | |
| Month 3 | | | |

☐ All batches were less than or equal to 60 pounds

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

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

## Part 70 Quarterly Report

Source Name: Crane Division, Naval Surface Warfare Center (NSWC Crane)
Source Address: 300 Highway 361, Crane, Indiana 47522
Mailing Address: Code 0592, Building 3260, 300 Highway 361, Crane, IN 47522-5001
Part 70 Permit No.: T101-21308-00005
Facility: Flare Manufacturing Process in Building 198
Parameter: Number of batches
Limit: The total number of batches shall be limited to less than 833 batches per consecutive twelve (12) month period, with compliance determined at the end of each month.
Equation: Each batch shall not exceed 60 pounds.

QUARTER: _____YEAR:_____

| Month | Column 1 | Column 2 | Column 1 + Column 2 |
|---|---|---|---|
| | This month | Previous 11 months | 12 months total |
| Month 1 | | | |
| Month 2 | | | |
| Month 3 | | | |

☐ All batches were less than or equal to 60 pounds

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
# OFFICE OF AIR QUALITY
# COMPLIANCE AND ENFORCEMENT BRANCH
# PART 70 OPERATING PERMIT
# QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: Crane Division, Naval Surface Warfare Center (NSWC Crane)
Source Address: 300 Highway 361, Crane, Indiana 47522
Mailing Address: Code 0592, Building 3260, 300 Highway 361, Crane, IN 47522-5001
Part 70 Permit No.: T101-21308-00005

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



This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

□ NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

□ THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

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

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

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

Form Completed by:_____

Title / Position: _____

Date:_____

Phone: _____

Attach a signed certification to complete this report.

# Indiana Department of Environmental Management
# Office of Air Quality

## Technical Support Document (TSD) for a Part 70 Minor Source Modification and Minor Permit Modification

### Source Description and Location

| | |
|---|---|
| Source Name: | **Crane Division, Naval Surface Warfare Center (NSWC Crane)** |
| Source Location: | **300 Highway 361, Crane, IN 47522** |
| County: | **Martin** |
| SIC Code: | **9711** |
| Operation Permit No.: | **T 101-21308-00005** |
| Operation Permit Issuance Date: | **December 2, 2008** |
| Minor Source Modification No.: | **101-28815-00005** |
| Minor Permit Modification No.: | **101-28846-00005** |
| Permit Reviewer: | **Jillian Bertram** |

### Existing Approvals

The source was issued Part 70 Operating Permit Renewal No. 101-21308-00005 on December 2, 2008. The source has since received the following approvals:

(a) Interim Minor Source Modification No. 101-27811I-00005 issued on May 1, 2009.
(b) Minor Source Modification No. 101-27811-00005 issued on May 21, 2009.
(c) Significant Permit Modification No. 101-27854-00005 issued on July 17, 2009.
(d) Interim Minor Source Modification No. 101-28252I-00005, issued September 2, 2009.
(e) Minor Source Modification No. 101-28252-00005, issued September 4, 2009.
(f) Minor Permit Revision No. 101-28267-00005, issued November 10, 2009.

### County Attainment Status

The source is located in Martin 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.<br>Unclassifiable or attainment effective April 5, 2005, for PM2.5. | |

(a) Ozone Standards

(1) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 revoking the one-hour ozone standard in Indiana.

(2) On September 6, 2007, the Indiana Air Pollution Control Board finalized a temporary emergency rule to re-designate Allen, Clark, Elkhart, Floyd, LaPorte, and St. Joseph Counties as attainment for the 8-hour ozone standard.

(3) On November 9, 2007, the Indiana Air Pollution Control Board finalized a temporary emergency rule to re-designate Boone, Clark, Elkhart, Floyd, LaPorte, Hamilton, Hancock, Hendricks, Johnson, Madison, Marion, Morgan, Shelby, and St. Joseph Counties as attainment for the 8-hour ozone standard.

(4) 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. Martin 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

Martin 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 15th, 2008. Indiana has three years from the publication of these rules to revise its PSD rules, 326 IAC 2-2, to include those requirements. The May 8, 2008 rule revisions require IDEM to regulate PM10 emissions as a surrogate for PM2.5 emissions until 326 IAC 2-2 is revised.

(c) Other Criteria Pollutants

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

(d) Fugitive Emissions

Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3, fugitive emissions are not counted toward the determination of PSD and Emission Offset applicability.

## Source Status

The table below summarizes the potential to emit of the entire source, prior to the proposed modification, after consideration of all enforceable limits established in the effective permits:

| **Pollutant** | **Emissions** (ton/yr) |
|---|---|
| PM | >250 |
| $PM_{10}$ | >250 |
| $PM_{2.5}$ | >250 |
| $SO_2$ | >250 |
| VOC | >250 |
| CO | >250 |
| $NO_X$ | >250 |

(a) This existing source is a major stationary source, under PSD (326 IAC 2-2), because a regulated pollutant is emitted at a rate of 250 tons per year or more, and it is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).

(b) These emissions are based upon the Technical Support Document (TSD) for Minor Permit Modification No.: T101-28267-00005.

The table below summarizes the potential to emit HAPs for the entire source, prior to the proposed modification, after consideration of all enforceable limits established in the effective permits:

| **HAPs** | **Potential To Emit** (ton/yr) |
|---|---|
| Single (xylene) | >10 |
| **Total** | **>25** |

This existing source is a major source of HAPs, as defined in 40 CFR 63.2, because HAP emissions are greater than ten (10) tons per year for a single HAP and greater than twenty-five (25) tons per year for a combination of HAPs. Therefore, this source is a major source under Section 112 of the Clean Air Act (CAA).

## Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed a modification application, submitted by NSWC Crane on December 28, 2009, relating to the addition of one HVLP paint booth. The following is a list of the new emission unit and pollution control device:

One (1) paint booth, consisting of:

CRN-0104-03-23-HH16, exhausting to stack CRN-0104-03-23-HH16-F, located in Building 104, approved for construction in 2010, using a dry filter to control particulate matter emissions.

## Enforcement Issues

There are no pending enforcement actions related to this modification.

## Emission Calculations

See Appendix A of this Technical Support Document for detailed emission calculations.

## Permit Level Determination – Part 70

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as "the maximum capacity of a stationary source or emission unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA, IDEM, or the appropriate local air pollution control agency."

The following table is used to determine the appropriate permit level under 326 IAC 2-7-10.5. This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

| **PTE Before Controls of the Modification** | |
|---|---|
| **Pollutant** | **Potential To Emit** (ton/yr) |
| PM | 0.04 |
| $PM_{10}$ | 0.04 |
| $PM_{2.5}$ | 0.04 |
| $SO_2$ | 0.00 |
| VOC | 20.97 |
| CO | 0.00 |
| $NO_X$ | 0.00 |

| **HAP PTE Before Controls of the Modification** | |
|---|---|
| **HAPs** | **Potential To Emit** (ton/yr) |
| Toluene | 0.99 |
| Xylene | 2.07 |
| Chromium | 2.18 |
| TOTAL | 5.24 |

This source modification is subject to 326 IAC 2-7-10.5(d)(3) because the potential to emit VOC from the modification is greater than ten (10) tons per year and less than twenty-five (25) tons per year. Additionally, the modification will be incorporated into the Part 70 Operating Permit through a minor permit modification issued pursuant to 326 IAC 2-7-12(b) because there are no changes in the recordkeeping requirements, reporting requirements, or case-by-case emission limits.

## Permit Level Determination – PSD and Emission Offset

The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of this Part 70 source and permit modification, and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

| | **Potential to Emit** (ton/yr) | | | | | |
|---|---|---|---|---|---|---|
| **Process / Emission Unit** | **PM** | **$PM_{10}$** | **$SO_2$** | **VOC** | **CO** | **$NO_X$** |
| CRN-0104-03-23-HH16 | 0.004 | 0.004 | 0.00 | 20.97 | 0.00 | 0.00 |
| Total for Modification | 0.004 | 0.004 | 0.00 | 20.97 | 0.00 | 0.00 |
| Significant Level | 25 | 15 | 40 | 40 | 100 | 40 |

This modification to an existing major stationary source is not major for PSD because the emissions increases are less than the PSD significant levels. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

## Federal Rule Applicability Determination

**NSPS:**

(a) CRN-0104-03-23-HH16 is not subject to the requirements of the New Source Performance Standard for Surface Coating of Metal Furniture, 40 CFR 60.31, Subpart EE), because the facility coats metal munitions, not furniture.

(b) CRN-0104-03-23-HH16 is not subject to the requirements of the New Source Performance Standard for New Source Performance Standards for Surface Coating of Metal Coil, 40 CFR 60.46, Subpart TT), because the facility coats metal munitions, not coil.

(c) There are no New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) included in this proposed modification.

**NESHAP:**

(d) CRN-0104-03-23-HH16 is not subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Surface Coating of Metal Cans, Subpart KKKK, because the facility coats metal munitions, not cans.

(e) CRN-0104-03-23-HH16 is not subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Surface Coating of Miscellaneous Metal Parts and Products, Subpart MMMM, pursuant to 40 CFR 63.3881(c)(4), because the source is owned by the Armed Forces of the United States.

(d) CRN-0104-03-23-HH16 is not subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Surface Coating of Metal Furniture, Subpart RRRR, because the facility coats metal munitions, not furniture

(d) CRN-0104-03-23-HH16 is not subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Surface Coating of Metal Coil, Subpart SSSS, because the facility coats metal munitions, not coil.

.

(e) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included in this proposed modification.

(d) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is applicable to new or modified emission units that involve a pollutant-specific emission unit and meet the following criteria:

(1) has a potential to emit before controls equal to or greater than the Part 70 major source threshold for the pollutant involved;

(2) is subject to an emission limitation or standard for that pollutant; and

(3) uses a control device, as defined in 40 CFR 64.1, to comply with that emission limitation or standard.

The uncontrolled emissions of each regulated pollutant is less than the Part 70 major source threshold, therefore, the requirements of 40 CFR 64.2 do not apply to the proposed emission unit.

## State Rule Applicability Determination

The following state rules are applicable to the source due to the modification:

**326 IAC 2-1.1-5 (Nonattainment New Source Review)**
Nonattainment New Source Review applicability is discussed under the Permit Level Determination – PSD and Emission Offset section.

**326 IAC 2-2 and 2-3 (PSD and Emission Offset)**
PSD and Emission Offset applicability is discussed under the Permit Level Determination – PSD and Emission Offset section.

**326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))**
The operation of CRN-0104-03-23-HH16 will emit less than ten (10) tons per year for a single HAP and less than twenty-five (25) tons per year for a combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply.

**326 IAC 2-6 (Emission Reporting)**
Since this source is required to have an operating permit under 326 IAC 2-7, Part 70 Permit Program, this source is subject to 326 IAC 2-6 (Emission Reporting). In accordance with the compliance schedule in 326 IAC 2-6-3, an emission statement must be submitted triennially. The first report is due no later than July 1, 2006, and subsequent reports are due every three (3) years thereafter. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

**326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Operations)**
Pursuant to 326 IAC 6-3-2(d), particulate emissions shall be controlled by a dry filter, waterwash, or equivalent control device. The control device shall be operated in accordance with the manufacturer's specifications.

**326 IAC 8-1-6 (General VOC Reduction Requirements)**
The requirements of 326 IAC 8-1-6 do not apply because the potential to emit VOC from the facility is less than 25 tons per year.

**326 IAC 8-2-9 (Miscellaneous Metal Coating)**
The requirements of 329 IAC 8-2-9 are applicable to the proposed surface coating booth because the booth will be constructed after July 1, 1990, the source has a SIC code of 3483, which is one of the specified SIC codes in this rule, and the actual emissions of VOCs from each metal surface coating operation is greater than the 15 pounds per day applicability threshold. Therefore, the following requirements are applicable to this emission unit:

(1) Pursuant to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations), the volatile organic compound (VOC) content of the coating delivered to the applicators (as mixed) at CRN-0104-03-23-HH16 shall be limited to 3.5 pounds of VOCs per gallon of coating less water, for extreme performance coatings.

(2) Solvent sprayed from application equipment during cleanup or color changes shall be directed into containers. Such containers shall be closed as soon as such solvent spraying is complete, and the waste solvent shall be disposed of in such a manner that evaporation is minimized.

Compliance with this VOC content and usage limitation shall be determined by 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 of VOC per gallon less water as applied;

C is the VOC content of the coating in pounds of VOC per gallon less water as applied; and
U is the usage rate of the coating in gallons per day.

## Compliance Determination and Monitoring Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with all applicable state and federal rules on a continuous basis. All state and federal rules contain compliance provisions; however, these provisions do not always fulfill the requirement for a continuous demonstration. When this occurs, IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, Compliance Determination Requirements are included in the permit. The Compliance Determination Requirements in Section D of the permit are those conditions that are found directly within state and federal rules and the violation of which serves as grounds for enforcement action.

If the Compliance Determination Requirements are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also in Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

The Compliance Determination Requirements applicable to this modification are as follows:

(a) CRN-0104-03-23-HH16 has applicable compliance determination conditions as specified below:

(1) The dry filters must be in operation and controlling emissions from CRN-0104-03-23-HH16 at all times CRN-0104-03-23-HH16 is in operation.

(2) As supplied and as applied VOC data sheets must be prepared or obatined.

The compliance monitoring requirements applicable to this modification are as follows:

(b) CRN-0104-03-23-HH16 has applicable compliance monitoring conditions as specified below:

(1) Daily inspections shall be performed to verify the placement, integrity and particle loading of the dry filters.

(2) Monthly inspections shall be performed of the coating emissions from the stack and the presence of overspray on the rooftops and the nearby ground.

These monitoring conditions are necessary because the dry filters are needed to comply with the requirements of 326 IAC 6-3.

## Proposed Changes

The changes listed below have been made to Part 70 Operating Permit No. 101-21308-00005. Deleted language appears as ~~strikethroughs~~ and new language appears in **bold**.

**Change No. 1**

A.2 and D.4 were modified to accommodate the new emission units and applicable requirements.

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

[326 IAC 2-7-5(15)]

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

***

(d) Twenty-si~~x~~**even** (2~~6~~**7**) paint booths, consisting of:

(1) CRN-0104-01-23-HH16, exhausting to stack CRN-0104-01-23-HH16-S, located in Building 104, constructed in 1983, using a dry filter to control particulate matter emissions.

(2) CRN-0104-02-23-HH16, exhausting to stack CRN-0104-02-23-HH16-S, located in Building 104, constructed in 1983, using a dry filter to control particulate matter emissions.

**(3) CRN-0104-03-23-HH16, exhausting to stack CRN-0104-03-23-HH16-F, located in Building 104, approved for construction in 2010, using a dry filter to control particulate matter emissions.**

~~(3)~~**(4)** CRN-0107-01-23-HH13, exhausting to stack CRN-0107-01-23-HH13-S, located in Building 107, constructed in 1980, using a dry filter to control particulate matter emissions.

***

**SECTION D.4 FACILITY OPERATION CONDITIONS**

**Emission Unit Description**

(d) Twenty-si~~x~~**even** (2~~6~~**7**) paint booths, consisting of:

(1) CRN-0104-01-23-HH16, exhausting to stack CRN-0104-01-23-HH16-S, located in Building 104, constructed in 1983, using a dry filter to control particulate matter emissions.

(2) CRN-0104-02-23-HH16, exhausting to stack CRN-0104-02-23-HH16-S, located in Building 104, constructed in 1983, using a dry filter to control particulate matter emissions.

**(3) CRN-0104-03-23-HH16, exhausting to stack CRN-0104-03-23-HH16-F, located in Building 104, approved for construction in 2010, using a dry filter to control particulate matter emissions.**

~~(3)~~**(4)** CRN-0107-01-23-HH13, exhausting to stack CRN-0107-01-23-HH13-S, located in Building 107, constructed in 1980, using a dry filter to control particulate matter emissions.

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

***

D.4.3 Miscellaneous Metal Coating Operations [326 IAC 8-2-9]

Pursuant to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations), the volatile organic compound (VOC) content of coating delivered to each of the following paint booths shall be limited to 3.5 pounds of VOCs per gallon of coating less water averaged on a daily basis for each paint booth:

***

(10) CRN-0104-02-23-HH16, located in Building 104, constructed in 1983;
**(11) CRN-0104-03-23-HH16, located in Building 104, approved for construction in 2010;**
~~(11)~~**(12)** CRN-0107-01-23-HH13, located in Building 107, constructed in 1980;

## Conclusion and Recommendation

The construction of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Minor Source Modification No. 101-28815-00005 and Minor Permit Modification No. 101-28846-00005. The staff recommends to the Commissioner that this Part 70 Minor Source and Minor Modification be approved.

**Appendix A: Emissions Calculations**
**VOC and Particulate**
**From CRN-0104-03-23-HH16**

**Company Name:** NSWC Crane
**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 (H20 & 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** | |
| | | | | | | | | **controlled*** ** | **0.004** | |

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

Controlled = Particulate (tons/yr) * (1- control efficiency (90%))

* 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 (155 mm) parts.

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

**Company Name:** NSWC Crane
**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) | 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** |
| | | **total** | **5.24** |

**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

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 (155 mm) parts.

# 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: Jim Hunsicker
Crane Div, Naval Surface Warfare Center
Code 0592, Bldg 3260, 300 Hwy 361
Crane, IN 47522-5001

DATE: January 28, 2010

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

SUBJECT: Final Decision
Title V - Minor Source Modification
101 - 28815 - 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:
Mallory Sparks SAIC
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 | LPOGOST 1/27/2010<br>Crane Div, Naval Surface Warfare Ctr 101 - 28846 & 28815- 00005 (draft and final) | | | AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING |
|---|---|---|---|---|
| Name and address of Sender | ▶ | Indiana Department of Environmental Management<br>Office of Air Quality – Permits Branch<br>100 N. Senate<br>Indianapolis, IN 46204 | Type of Mail:<br>**CERTIFICATE OF MAILING ONLY** | |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | Jim Hunsicker Crane Div, Naval Surface Warfare Ctr (NSWC Crane) Code 0592, Bldg 3260, 300 Hwy 361 Crane IN 47522-5001 (Source CAATS) Via confirmed delivery | | | | | | | | | |
| 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 | | Bedford Public Library 1323 K Street Bedford IN 47421 *(Library)* | | | | | | | | | |
| 7 | | Mr. John Blair 800 Adams Ave Evansville IN 47713 *(Affected Party)* | | | | | | | | | |
| 8 | | Mallory Sparks SAIC 14064 E. WestGate Court, P.O. Box 189 Crane IN 47522 (Consultant) | | | | | | | | | |
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