



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

100 N. Senate Avenue • Indianapolis, IN 46204  
(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

**Michael R. Pence**  
*Governor*

**Thomas W. Easterly**  
*Commissioner*

TO: Interested Parties / Applicant  
DATE: August 15, 2013  
RE: Donaldson Company, Inc. / 023-33367-00024  
FROM: Matthew Stuckey, Branch Chief  
Permits Branch  
Office of Air Quality

## Notice of Decision – Approval

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to 326 IAC 2, this approval was effective immediately upon submittal of the application.

If you wish to challenge this decision, IC 4-21.5-3-7 requires that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days from the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

Enclosures  
FNPER-AM.dot 6/13/2013



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

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

Mr. William Roberts  
Donaldson Company, Inc.  
3260 West State Road 28  
Frankfort, Indiana 46041

August 15, 2013

Re: 023-33367-00024  
First Administrative Amendment to  
Part 70 Operating Permit T 023-31399-00024

Dear Mr. Roberts:

Donaldson Company, Inc. was issued Part 70 Operating Permit No T 023-31399-00024 on November 05, 2012 for a stationary air filter manufacturing plant. An application requesting changes to this permit was received on June 30, 2013.

Donaldson Company, Inc. requested that the permit be updated to include:

- (1) One (1) polyurethane end cap molding process, identified as P18, to be constructed in 2013, consists of one (1) end cap dispense robot, one (1) Poly day tank and one (1) ISO day tank.
- (2) The chevron bonder, identified as P19, to be constructed in 2013, maximum usage of the hotmelt 21,786 lbs/yr.
- (3) Typographical errors and new rule conditions apply to degreaser unit (see D.1.2 and D.13).

Pursuant to 326 IAC 2-1.1-3, P18 is an exempt unit. Pursuant to 326 IAC2-7-1(42)(H)(i), P19 is a trivial activity. Pursuant to 326 IAC 2-7-11(a)(8)(A), these changes to the permit qualify as an administrative amendment. The permit is hereby administratively amended as follows with deleted language as strikeouts and new language bolded:

Change 1: addition of a proposed equipment into the existing Power Core Line 4.

A.2 Emission Units and Pollution Control Equipment Summary  
[326 IAC 2-7-4(c)(3)][326 IAC 2-7-5(14)]

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...

(e) one (1) Power Core Line 4 consisting of the following units:

(1)- (2) ...

- (3) **One (1) polyurethane end cap molding process, identified as P18, to be constructed in 2013, consists of one (1) end cap dispense robot, one (1) Poly day tank and one (1) ISO day tank.**

...

A.3 Specifically Regulated Insignificant Activities  
[326 IAC 2-7-1(21)][326 IAC 2-7-4(c)][326 IAC 2-7-5(14)]

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- ...
- (e) The chevron bonder identified as P19, to be constructed in 2013, maximum usage of the hotmelt 21,786 lbs/yr.

SECTION D.1 FACILITY OPERATION CONDITIONS

- (a) - (d) ...  
(e)

(1) - (2)...

- (3) One (1) polyurethane end cap molding process, identified as P18, to be constructed in 2013, consists of one (1) end cap dispense robot, one (1) Poly day tank and one (1) ISO day tank.

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

D.1.1 PSD Minor Limit and Minor Limit for HAP's [326 IAC 2-2] [40 CFR 63][326 IAC 20]

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Change 2: IDEM, OAQ has clarified the rule has changed. Therefore new condition is included .

~~D.1.2 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]~~

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~~Pursuant to 326 IAC 8-3-2, for the cleaning systems and parts washers (C6, H2, D17, L7, P1, F1, F2, and P12), the owner or operator 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.1.3 Volatile Organic Compounds (VOC) [326 IAC 8-3-5]~~

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~~(a) Pursuant 326 IAC 8-3-5(a), the owner or operator shall ensure that the following control equipment requirements are met for each of the cleaning systems and parts washers (emission units D17, L7, P1, F2, and P12):~~

- ~~(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°C) (one hundred degrees Fahrenheit (100°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°C) (one hundred degrees Fahrenheit (100°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 326 IAC 8-3-5(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°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°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 or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) — Pursuant 326 IAC 8-3-5(b), the owner or operator shall ensure that the following operating requirements are met for each of the cleaning systems and parts washers (emission units D17, L7, P1, F2, and P12):
  - (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.

#### **D.1.2 Volatile Organic Compound (VOC) [326 IAC 8-3]**

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- (a) Pursuant to 326 IAC 8-3-2 (Cold Cleaner Degreaser Control Equipment and Operating Requirements), for cold cleaning degreasers constructed after January 1, 1980, the Permittee shall ensure the following control equipment and operating requirements are met:
  - (1) Equip the degreaser with a cover;
  - (2) Equip the degreaser with a device for draining cleaned parts;
  - (3) Close the degreaser cover whenever parts are not being handled in the degreaser;
  - (4) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
  - (5) Provide a permanent, conspicuous label that lists the operating requirements in

- subdivisions (3), (4), (6), and (7).
  - (6) Store waste solvent only in closed containers.
  - (7) Prohibit the disposal or transfer of waste solvent in such a manner that could allow greater than twenty percent (20%) of the waste solvent (by weight) to evaporate into the atmosphere.
- (b) Pursuant to 326 IAC 8-3-2 (Cold Cleaner Degreaser Control Equipment and Operating Requirements), for cold cleaning degreasers without remote solvent reservoirs constructed after July 1, 1990, the Permittee shall ensure the following additional control equipment and operating requirements are met:
- (1) Equip the degreaser with one (1) of the following control devices if the solvent is heated to a temperature of greater than forty-eight and nine-tenths (48.9) degrees Celsius (one hundred twenty (120) degrees Fahrenheit):
    - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
    - (B) A water cover when solvent used is insoluble in, and heavier than, water.
    - (C) A refrigerated chiller.
    - (D) Carbon adsorption.
    - (E) An alternative system of demonstrated equivalent or better control as those outlined in clauses (A) through (D) that is approved by the department. An alternative system shall be submitted to the U.S. EPA as a SIP revision.
  - (2) Ensure the degreaser cover is designed so that it can be easily operated with one (1) hand if the solvent is agitated or heated.
  - (3) If used, solvent spray:
    - (A) must be a solid, fluid stream; and
    - (B) shall be applied at a pressure that does not cause excessive splashing.

**D.1.3 Volatile Organic Compounds (VOC) [326 IAC 8-3-8]**

Pursuant to 326 IAC 8-3-8 (Material Requirements for Cold Cleaner Degreasers), on and after January 1, 2015, the Permittee shall not operate a cold cleaner degreaser with a solvent that has a VOC composite partial vapor pressure that exceeds one (1) millimeter of mercury (nineteenthousandths(0.019) pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

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Change 3: Corrections made to typographical errors

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE DATA SECTION

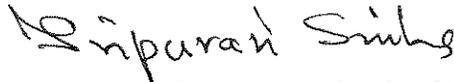
Part 70 Quarterly Report

Source Name: Donaldson Company, Inc.  
Source Address: 3260 W. State Road 28, Frankfort, Indiana 46041  
Part 70 Permit No.: T023-31399-00024  
Facilities: Filter Media Moisture Removal (Emission Units C1, D4, H1, L1, P13, P14, P15, and P16, and P7)  
Parameter: Low VOC-Containing Filter Media Usage  
Limits: Less than a total of 20,000,000 pounds of low VOC-containing filter media per twelve (12) consecutive month period with compliance determined at the end of each month.

All other conditions of the permit shall remain unchanged and in effect. For your convenience, the entire Part 70 Operating permit as modified will be provided at issuance. A copy of this permit is available on the Internet at: [www.in.gov/ai/appfiles/idem-caats/](http://www.in.gov/ai/appfiles/idem-caats/).

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Anh Nguyen at the Indiana Department Environmental Management, Office of Air Quality, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 233-5334 or toll free at 1-800-451-6027 extension 3-5334.

Sincerely,



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

cc: File – Clinton County  
U.S. EPA, Region V  
Clinton County Health Department  
Air Compliance and Enforcement Branch



**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**

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*Mitchell E. Daniels Jr.*  
Governor

*Thomas W. Easterly*  
Commissioner

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**Part 70 Operating Permit Renewal  
OFFICE OF AIR QUALITY**

**Donaldson Company, Inc.  
3260 West State Road 28  
Frankfort, Indiana 46041**

(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.: T023-31399-00024	
Issued by:  Jenny Acker, Section Chief Permits Branch Office of Air Quality	Issuance Date: November 5, 2012  Expiration Date: November 5, 2017

First Administrative Amendment No.: T023-33367-00024	
Issued by:  <i>Tripurari Sinha</i> Tripurari P. Sinha, Ph. D., Section Chief Permits Branch Office of Air Quality	Issuance Date: August 15, 2013  Expiration Date: November 5, 2017

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**Stratospheric Ozone Protection**

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- D.1.3 Volatile Organic Compounds (VOC) [326 IAC 8-3-5]

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**National Emission Standards for Hazardous Air Pollutants [326 IAC 20] [40 CFR Part 63]**

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Certification  
Emergency Occurrence Report  
Quarterly Report  
Quarterly Deviation and Compliance Monitoring Report

**Attachment A:** 40 CFR 63 Subpart M MMM—National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products.

**Attachment B:** 40 CFR 63 Subpart P PPP—National Emission Standards for Hazardous Air Pollutants for Surface Coating of Plastic Parts and Products

## 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(14)][326 IAC 2-7-1(22)]

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The Permittee owns and operates a stationary stationary air filter manufacturing plant.

Source Address:	3260 West State Road 28, Frankfort, Indiana 46041
General Source Phone Number:	(765) 659-4766
SIC Code:	3599
County Location:	Clinton
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Operating Permit Program Minor Source, under PSD Major Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

### A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)][326 IAC 2-7-5(14)]

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

(a) one (1) Caterpillar Filter Line consisting of the following emission units:

- (1) one (1) electric infrared media heater, identified as emission unit C1, constructed in 1980, with a maximum capacity of 2000 pounds of filter media per hour, with emissions uncontrolled and fugitive; associated equipment include an electric pleat tip curing with emissions uncontrolled and fugitive, and an electric media dry off oven with emissions uncontrolled and exhausting to stack V1; and
- (2) one (1) cold cleaning system, identified as emission unit C6, constructed in 1980, consisting of one (1) soak tank with a maximum volume of 20 gallons and a maximum usage rate of 0.943 pounds of non-halogenated cleaning solvent per hour, with emissions uncontrolled and exhausting to stack V1, followed by one (1) water bath.

Under the NESHAP for Surface Coating of Plastics Parts and Products (40 CFR 63, Subpart PPPP), the cleaning system C6 is considered part of an existing affected source when directly related to the coating of plastic parts or products.

(b) one (1) Hoosier Element Assembly Line consisting of the following emission units:

- (1) one (1) electric infrared media heater, identified as emission unit H1, constructed in 1984, with a maximum capacity of 2000 pounds of filter media per hour, with emissions uncontrolled and fugitive; associated equipment include an electric pleat tip curing with emissions uncontrolled and fugitive and an electric media dry off oven with emissions uncontrolled and exhausting to stack V2;

- (2) one (1) cold cleaning system, identified as emission unit H2, constructed in 1984 and modified in 2000, consisting of one (1) soak tank with a maximum volume of 20 gallons and a maximum usage rate of 0.943 pounds of non-halogenated cleaning solvent per hour, with emissions uncontrolled and exhausting to stack V2, followed by one (1) water bath.

Under the NESHAP for Surface Coating of Miscellaneous Metal Parts and Products (40 CFR 63, Subpart Mmmm), the cleaning system H2 is considered part of an existing affected source when directly related to the coating of metal parts or products.

- (c) one (1) Hybrid Line consisting of the following emission units:

- (1) one (1) electric infrared media heater, identified as emission unit D4, constructed in 1997, with a maximum capacity of 2000 pounds of filter media per hour, with emissions uncontrolled and fugitive; associated equipment include electric pleat tip curing with emission uncontrolled and fugitive, an electric media steaming unit with emissions uncontrolled and exhausting to stack V6; and an electric media dry off oven, identified as emission unit D11, constructed in 2006, with emissions uncontrolled and exhausting to stack V6; and
- (2) one (1) cold cleaning system, identified as emission unit D17, constructed in 1992 and modified in 2000, consisting of one (1) soak tank with a maximum volume of 20 gallons and a maximum usage rate of 0.943 pounds of non-halogenated cleaning solvent per hour, with emissions uncontrolled and exhausting to stack V6, followed by one (1) water bath.

Under the NESHAP for Surface Coating of Plastics Parts and Products (40 CFR 63, Subpart Pppp), the cleaning system D17 is considered part of an existing affected source when directly related to the coating of plastic parts or products.

- (d) one (1) Express Filter Line consisting of the following emission units:

- (1) one (1) electric infrared media heater, identified as emission unit L1, constructed in 1997, with a maximum capacity of 2000 pounds of filter media per hour, with emissions uncontrolled and fugitive; associated equipment includes electric pleat tip curing, with emissions uncontrolled and fugitive, an electric media steaming unit, with emissions uncontrolled and exhausting to stack V7, an electric media dry off oven, with emissions uncontrolled and exhausting to stack V7; and
- (2) one (1) cold cleaning system, identified as emission unit L7, constructed in 1998 and modified in 2000, consisting of one (1) soak tank with a maximum volume of 20 gallons and a maximum usage rate of 0.943 pounds of non-halogenated cleaning solvent per hour, with emissions uncontrolled and exhausting to stack V8, followed by one (1) water bath.

Under the NESHAP for Surface Coating of Plastics Parts and Products (40 CFR 63, Subpart Pppp), the cleaning system L7 is considered part of an existing affected source when directly related to the coating of plastic parts or products.

- (e) one (1) Power Core Line 4 consisting of the following units:
- (1) one (1) electric infrared media heater, identified as emission unit P7, constructed in 2008, with a maximum capacity of 1,201 pounds of filter media per hour, with emissions uncontrolled and fugitive; associated equipment include one (1) adhesive dispensing unit for single face media (emission unit P8), one (1) adhesive dispensing unit for stack left and stack right element (emission unit P9), one (1) adhesive dispensing unit for attaching end panels to media pack (emission unit P10), one (1) polyurethane end cap and gasket molding process (emission unit P11), three (3) element cure ovens, identified as P14, P15, and P16, constructed in 2009, and one (1) media dry off oven, identified as P13, constructed in 2009, with emissions uncontrolled and exhausting to stack V41.
  - (2) one (1) urethane parts washer cold cleaning tank (emission unit P12), constructed in 2009, with a maximum capacity of twenty (20) gallons and a working capacity of ten (10) gallons, with emissions uncontrolled and exhausting to stack V41.
  - (3) One (1) polyurethane end cap molding process, identified as P18, to be constructed in 2013, consists of one (1) end cap dispense robot, one (1) Poly day tank and one (1) ISO day tank .
- (f) one (1) Printing Operation servicing all production lines, identified as S1, consisting of seventeen (17) printing units, constructed in 1992 (1), 1997 (4), 1999 (2), 2000, 2002 (2), 2003 (5), 2006 (1) and 2009 (1), using ink jet, pad printing, or UV-cure screen printing methods, coating paper, plastic, and metal, with a combined maximum usage rate of 2.0 pounds of printing inks and solvents per hour, with emissions uncontrolled and fugitive.

Under the NESHAP for Surface Coating of Plastics Parts and Products (40 CFR 63, Subpart PPPP), the printing operation S1 is considered part of an existing affected source when coating plastic parts or products.

Under the NESHAP for Surface Coating of Miscellaneous Metal Parts and Products (40 CFR 63, Subpart MMMM), the printing operation S1 is considered part of an existing affected source when coating metal parts or products.

- (g) one (1) Media Oil Treatment Operation, identified as G1, consisting of three (3) media oil treatment units servicing several production lines, constructed in 1984, 1992, and 1997, utilizing roll coating application of treatment material on filter media, with a combined maximum usage rate of 9.387 pounds of oil per hour and 0.755 pounds of fire retardant per hour, with emissions uncontrolled and fugitive.
- (h) one (1) Mold Release Operation, identified as M1, consisting of seven (7) mold mold release spray booths servicing several production lines, constructed in 1980 (modified in 2002) (2), 1992 (1), 1997 (2), 2006 (1), and 2009 (1), utilizing low pressure, non-atomizing spray application of mold release on plastic molds prior to the polyurethane end cap molding processes, with a combined maximum usage rate of 6.128 pounds of mold release agent per hour, with emissions uncontrolled and exhausting to stack V41, V16, V5, V8, or fugitive; associated equipment includes six (6) electric mold preheat ovens, constructed in 1995 (2), 1997 (2), and 2006 (2), with emissions uncontrolled and fugitive.

Under the NESHAP for Surface Coating of Plastics Parts and Products (40 CFR 63, Subpart PPPP), the mold release operation M1 is considered part of an existing affected source.

A.3 Specifically Regulated Insignificant Activities  
[326 IAC 2-7-1(21)][326 IAC 2-7-4(c)][326 IAC 2-7-5(14)]

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This stationary source also includes the following insignificant activities which are specifically regulated, as defined in 326 IAC 2-7-1(21):

- (a) Adhesive, Sealant, and Glue Operation servicing several production lines, consisting of the following emission units:
  - (1) one (1) liquid methylene diisocyanate storage tank, identified as emission unit B1, constructed in 2002, with a maximum capacity of 10,000 gallons, with negligible emissions of volatile organic compounds, equipped with an activated carbon unit, exhausting to V12 and V13;
  - (2) one (1) liquid polyol storage tank, identified as emission unit B2, constructed in 2002, with a maximum capacity of 10,000 gallons, with negligible emissions of volatile organic compounds, exhausting to V14 and V15;
  - (3) polyurethane end cap and gasket molding processes used for several production lines, including nine (9) stations for dispensing polyurethane adhesive components (diisocyanate and polyol), identified as emission units C2, C7-1, C7-2, H11-1, H11-2, D13-1, D13-2, L8-1, and L8-2, constructed in 1980, 1980, 1980 (3), 2000, 2000 (2), 1990, 2006, 1997, and 1997 (2), utilizing flowcoating application of polyurethane adhesive onto plastic or metal end caps at a combined maximum usage rate of 1775 pounds of adhesive per hour, with negligible emissions of volatile organic compounds, uncontrolled and exhausting to stack V41 or fugitive; associated equipment include three (3) electric filter element cure ovens servicing several production lines, constructed in 1980, 2006, and 1997, with emissions uncontrolled and exhausting to stacks V1, V5, and V8;
  - (4) two (2) gasket adhesion units, #1 and #2, identified as emission units H13 and H8, respectively, constructed in 2000 and 2006, utilizing flowcoating application of adhesive to bond urethane gaskets to metal end caps at a combined maximum usage rate of 0.826 pounds of adhesive per hour, with unit #1 emissions uncontrolled and fugitive and unit #2 emissions uncontrolled and exhausting to stack V2;
  - (5) one (1) boot gasket adhesion unit, identified as emission unit H9, constructed in 2006, utilizing flowcoating application of adhesive to bond urethane gaskets to metal end caps at a maximum usage rate of 0.103 pounds of adhesive per hour, with emissions uncontrolled and fugitive;
  - (6) one (1) DIG Workcell operation, consisting of the following emission units:
    - (A) two (2) adhesive dispensing units, both identified as emission unit W1, constructed in 2002, for dispensing adhesive into metal end caps at an overall maximum usage rate of 3.252 pounds of adhesive per hour, with emissions uncontrolled and fugitive;
    - (B) two (2) adhesive dispensing units, identified as emission unit W2, constructed in 2002, for dispensing adhesive into metal end caps at an overall maximum usage rate of 0.443 pounds of adhesive per hour, with emissions uncontrolled and fugitive;

- (C) one (1) hot plate adhesive curing operation, identified as emission unit W3, constructed in 1984, with negligible emissions of volatile organic compounds, uncontrolled and fugitive;
- (D) one (1) gasket adhesion unit, identified as emission unit W4, constructed in 2002, utilizing flowcoating application of material to bond urethane gaskets to metal end caps at a maximum material usage of 0.083 pounds of adhesive per hour or 1.19 pounds of sealant per hour, with emission uncontrolled and fugitive;
- (7) one (1) end cap and gasket molding process for Power Core Line 4, identified as emission unit P3, approved for construction in 2004, including flowcoating application of adhesive onto filter media and flowcoating application of adhesive onto plastic end caps, with a potential to emit volatile organic compounds of 0.5 tons per year, with emissions exhausting through a stack;
- (8) one (1) filter element elastomeric rubber beading unit, identified as P17, constructed in 2009, with a maximum capacity of 160 pounds per hour (lb/hr), with emissions uncontrolled and fugitive.

Under the NESHAP for Surface Coating of Miscellaneous Metal Parts and Products (40 CFR 63, Subpart Mmmm), emission units B1, B2, H8, H9, H11-1, H11-2, H13, W1, W2, W3, and W4 are considered part of an existing affected source when directly related to the coating of metal parts or products.

Under the NESHAP for Surface Coating of Plastics Parts and Products (40 CFR 63, Subpart Pppp), emission units B1, B2, C2, C7-1, C7-2, D13-1, D13-2, L8-1, L8-2, and P3 are considered part of an existing affected source when directly related to the coating of plastic parts or products.

- (b) one (1) metal end cap parts washer, identified as emission unit P1, constructed in 2003, utilizing a non-halogenated cleaner, uncontrolled and exhausting to stacks V9, V17, and V18; [326 IAC 8-3-2] [326 IAC 8-3-5]

Under the NESHAP for Surface Coating of Miscellaneous Metal Parts and Products (40 CFR 63, Subpart Mmmm), the parts washer P1 is considered part of an existing affected source when directly related to the coating of metal parts or products.

- (c) one (1) maintenance parts cold cleaner, identified as emission unit F1, constructed in 1980, with a maximum volume of 30 gallons and a maximum usage rate of 0.02 pounds of petroleum solvent per hour, with emissions uncontrolled and fugitive. [326 IAC 8-3-2]
- (d) one (1) cold cleaning ultrasonic parts washer, identified as emission unit F2, constructed in 2006, with a maximum volume of 8.5 gallons and a maximum usage rate of 0.236 pounds of non-halogenated cleaning solvent per hour, with emissions uncontrolled and fugitive. [326 IAC 8-3-2] [326 IAC 8-3-5]
- (e) The chevron bonder, identified as P19, to be constructed in 2013, maximum usage of the hotmelt 21,786 lbs/yr.

#### 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]**

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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, T023-31399-00024, 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]**

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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]**

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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)]**

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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)]**

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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. 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)]**

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- (a) A certification required by this permit meets the requirements of 326 IAC 2-7-6(1) if:

- (1) it contains a certification by a "responsible official" as defined by 326 IAC 2-7-1(34), and
  - (2) the certification states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) The Permittee may use the attached Certification Form, or its equivalent 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

B.10 Preventive Maintenance Plan [326 IAC 2-7-5(12)][326 IAC 1-6-3]

(a) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:

- (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.

The Permittee shall implement the PMPs.

(b) If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:

- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
- (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
- (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If, due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

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

The PMP extension notification does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

The Permittee shall implement the PMPs.

(c) 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. The PMPs and their submittal do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

- (d) 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, 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 Office of Air Quality, Compliance and Enforcement Branch)  
Facsimile Number: 317-233-6865

- (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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "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)(8) 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.

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 T023-31399-00024 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** 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 a certification that

meets the requirements of 326 IAC 2-7-6(1) by a "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.16 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

Request for renewal shall be submitted to:

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

- (b) A timely renewal application is one that is:
  - (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
  - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 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, pursuant to 326 IAC 2-7-4(a)(2)(D), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

**B.17 Permit Amendment or Modification [326 IAC 2-7-11][326 IAC 2-7-12]**

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(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 does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "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.18 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)][326 IAC 2-7-12(b)(2)]**

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(a) No Part 70 permit revision or notice 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.19 Operational Flexibility [326 IAC 2-7-20][326 IAC 2-7-10.5]**

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(a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b) or (c) 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)(1) and (c)(1). 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) and (c)(1).

- (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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "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.20 Source Modification Requirement [326 IAC 2-7-10.5]**

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

**B.21 Inspection and Entry [326 IAC 2-7-6][IC 13-14-2-2][IC 13-30-3-1][IC 13-17-3-2]**

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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.22 Transfer of Ownership or Operational Control [326 IAC 2-7-11]**

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- (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

Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "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.23 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.24 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.

## SECTION C

## SOURCE OPERATION CONDITIONS

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 5-1-1 (Applicability) and 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 except as provided in 326 IAC 4-2 or in this permit. The Permittee shall not operate a refuse incinerator or refuse burning equipment except as provided in 326 IAC 9-1-2 or in this permit.

#### 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]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of

326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
  - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
  - (2) If there is a change in the following:
    - (A) Asbestos removal or demolition start date;
    - (B) Removal or demolition contractor; or
    - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

- (e) **Procedures for Asbestos Emission Control**  
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and Renovation**  
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Licensed Asbestos Inspector**  
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.

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

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

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- (a) For performance testing required by this permit, 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "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]**

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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)]**

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Unless otherwise specified in this permit, for all monitoring requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or of initial start-up, whichever is later, to begin such monitoring. If due to circumstances beyond the Permittee's control, any monitoring equipment required by this permit cannot be installed and operated no later than ninety (90) days after permit issuance or the date of initial startup, whichever is later, 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "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 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]**

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- (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.12 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]**

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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.13 Risk Management Plan [326 IAC 2-7-5(11)] [40 CFR 68]**

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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.14 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]**

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Upon detecting an excursion where a response step is required by the D Section or an exceedance of a limitation in this permit:

- (a) The Permittee shall take reasonable response steps to 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 excess emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:
  - (1) initial inspection and evaluation;
  - (2) recording that operations returned or are returning 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 normal or usual manner of operation.
- (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 record the reasonable response steps taken.

**C.15 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 submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.
- (b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "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.16 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]**

Pursuant to 326 IAC 2-6-3(b)(2), starting in 2005 and every three (3) years thereafter, the Permittee shall submit by July 1 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

**C.17 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6]**

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- (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. Support information includes the following:
- (AA) All calibration and maintenance records.
  - (BB) All original strip chart recordings for continuous monitoring instrumentation.
  - (CC) Copies of all reports required by the Part 70 permit.
- Records of required monitoring information include the following:
- (AA) The date, place, as defined in this permit, and time of sampling or measurements.
  - (BB) The dates analyses were performed.
  - (CC) The company or entity that performed the analyses.
  - (DD) The analytical techniques or methods used.
  - (EE) The results of such analyses.
  - (FF) The operating conditions as existing at the time of sampling or measurement.

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, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.

**C.18 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11]**

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- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Proper notice submittal under Section B –Emergency Provisions satisfies the reporting requirements of this paragraph. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported except that 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. This report shall be submitted not later than thirty (30) days after the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.
- (b) The address for report submittal is:

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

### **Stratospheric Ozone Protection**

#### **C.19 Compliance with 40 CFR 82 and 326 IAC 22-1**

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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 applicable standards for recycling and emissions reduction.

**SECTION D.1**

**FACILITY OPERATION CONDITIONS**

**Facility Description [326 IAC 2-7-5(14)]:**

- (a) one (1) Caterpillar Filter Line consisting of the following emission units:
  - (1) one (1) electric infrared media heater, identified as emission unit C1, constructed in 1980, with a maximum capacity of 2000 pounds of filter media per hour, with emissions uncontrolled and fugitive; associated equipment include an electric pleat tip curing with emissions uncontrolled and fugitive, and an electric media dry off oven with emissions uncontrolled and exhausting to stack V1; and
  - (2) one (1) cold cleaning system, identified as emission unit C6, constructed in 1980, consisting of one (1) soak tank with a maximum volume of 20 gallons and a maximum usage rate of 0.943 pounds of non-halogenated cleaning solvent per hour, with emissions uncontrolled and exhausting to stack V1, followed by one (1) water bath.

Under the NESHAP for Surface Coating of Plastics Parts and Products (40 CFR 63, Subpart PPPP), the cleaning system C6 is considered part of an existing affected source when directly related to the coating of plastic parts or products.

- (b) one (1) Hoosier Element Assembly Line consisting of the following emission units:
  - (1) one (1) electric infrared media heater, identified as emission unit H1, constructed in 1984, with a maximum capacity of 2000 pounds of filter media per hour, with emissions uncontrolled and fugitive; associated equipment include an electric pleat tip curing with emissions uncontrolled and fugitive and an electric media dry off oven with emissions uncontrolled and exhausting to stack V2;
  - (2) one (1) cold cleaning system, identified as emission unit H2, constructed in 1984 and modified in 2000, consisting of one (1) soak tank with a maximum volume of 20 gallons and a maximum usage rate of 0.943 pounds of non-halogenated cleaning solvent per hour, with emissions uncontrolled and exhausting to stack V2, followed by one (1) water bath.

Under the NESHAP for Surface Coating of Miscellaneous Metal Parts and Products (40 CFR 63, Subpart MMMM), the cleaning system H2 is considered part of an existing affected source when directly related to the coating of metal parts or products.

- (c) one (1) Hybrid Line consisting of the following emission units:
  - (1) one (1) electric infrared media heater, identified as emission unit D4, constructed in 1997, with a maximum capacity of 2000 pounds of filter media per hour, with emissions uncontrolled and fugitive; associated equipment include electric pleat tip curing with emission uncontrolled and fugitive, an electric media steaming unit with emissions uncontrolled and exhausting to stack V6; and an electric media dry off oven, identified as emission unit D11, constructed in 2006, with emissions uncontrolled and exhausting to stack V6; and
  - (2) one (1) cold cleaning system, identified as emission unit D17, constructed in 1992 and modified in 2000, consisting of one (1) soak tank with a maximum

volume of 20 gallons and a maximum usage rate of 0.943 pounds of non-halogenated cleaning solvent per hour, with emissions uncontrolled and exhausting to stack V6, followed by one (1) water bath.

Under the NESHAP for Surface Coating of Plastics Parts and Products (40 CFR 63, Subpart PPPP), the cleaning system D17 is considered part of an existing affected source when directly related to the coating of plastic parts or products.

- (d) one (1) Express Filter Line consisting of the following emission units:
- (1) one (1) electric infrared media heater, identified as emission unit L1, constructed in 1997, with a maximum capacity of 2000 pounds of filter media per hour, with emissions uncontrolled and fugitive; associated equipment includes electric pleat tip curing, with emissions uncontrolled and fugitive, an electric media steaming unit, with emissions uncontrolled and exhausting to stack V7, an electric media dry off oven, with emissions uncontrolled and exhausting to stack V7; and
  - (2) one (1) cold cleaning system, identified as emission unit L7, constructed in 1998 and modified in 2000, consisting of one (1) soak tank with a maximum volume of 20 gallons and a maximum usage rate of 0.943 pounds of non-halogenated cleaning solvent per hour, with emissions uncontrolled and exhausting to stack V8, followed by one (1) water bath.

Under the NESHAP for Surface Coating of Plastics Parts and Products (40 CFR 63, Subpart PPPP), the cleaning system L7 is considered part of an existing affected source when directly related to the coating of plastic parts or products.

- (e) one (1) Power Core Line 4 consisting of the following units:
- (1) one (1) electric infrared media heater, identified as emission unit P7, constructed in 2008, with a maximum capacity of 1,201 pounds of filter media per hour, with emissions uncontrolled and fugitive; associated equipment include one (1) adhesive dispensing unit for single face media (emission unit P8), one (1) adhesive dispensing unit for stack left and stack right element (emission unit P9), one (1) adhesive dispensing unit for attaching end panels to media pack (emission unit P10), one (1) polyurethane end cap and gasket molding process (emission unit P11), three (3) element cure ovens, identified as P14, P15, and P16, constructed in 2009, and one (1) media dry off oven, identified as P13, constructed in 2009, with emissions uncontrolled and exhausting to stack V41.
  - (2) one (1) urethane parts washer cold cleaning tank (emission unit P12), constructed in 2009, with a maximum capacity of twenty (20) gallons and a working capacity of ten (10) gallons, with emissions uncontrolled and exhausting to stack V41.
  - (3) One (1) polyurethane end cap molding process, identified as P18, to be constructed in 2013, consists of one (1) end cap dispense robot, one (1) Poly day tank and one (1) ISO day tank.
- (f) one (1) Printing Operation servicing all production lines, identified as S1, consisting of seventeen (17) printing units, constructed in 1992 (1), 1997 (4), 1999 (2), 2000, 2002 (2), 2003 (5), 2006 (1) and 2009 (1), using ink jet, pad printing, or UV-cure screen printing methods, coating paper, plastic, and metal, with a combined maximum usage

rate of 2.0 pounds of printing inks and solvents per hour, with emissions uncontrolled and fugitive.

Under the NESHAP for Surface Coating of Plastics Parts and Products (40 CFR 63, Subpart PPPP), the printing operation S1 is considered part of an existing affected source when coating plastic parts or products.

Under the NESHAP for Surface Coating of Miscellaneous Metal Parts and Products (40 CFR 63, Subpart MMMM), the printing operation S1 is considered part of an existing affected source when coating metal parts or products.

- (g) one (1) Media Oil Treatment Operation, identified as G1, consisting of three (3) media oil treatment units servicing several production lines, constructed in 1984, 1992, and 1997, utilizing roll coating application of treatment material on filter media, with a combined maximum usage rate of 9.387 pounds of oil per hour and 0.755 pounds of fire retardant per hour, with emissions uncontrolled and fugitive.
- (h) one (1) Mold Release Operation, identified as M1, consisting of seven (7) mold release spray booths servicing several production lines, constructed in 1980 (modified in 2002) (2), 1992 (1), 1997 (2), 2006 (1), and 2009 (1), utilizing low pressure, non-atomizing spray application of mold release on plastic molds prior to the polyurethane end cap molding processes, with a combined maximum usage rate of 6.128 pounds of mold release agent per hour, with emissions uncontrolled and exhausting to stack V41, V16, V5, V8, or fugitive; associated equipment includes six (6) electric mold preheat ovens, constructed in 1995 (2), 1997 (2), and 2006 (2), with emissions uncontrolled and fugitive.

Under the NESHAP for Surface Coating of Plastics Parts and Products (40 CFR 63, Subpart PPPP), the mold release operation M1 is considered part of an existing affected source.

Specifically Regulated Insignificant Activities:

This stationary source also includes the following insignificant activities which are specifically regulated, as defined in 326 IAC 2-7-1(21):

- (a) Adhesive, Sealant, and Glue Operation servicing several production lines, consisting of the following emission units:
  - (1) one (1) liquid methylene diisocyanate storage tank, identified as emission unit B1, constructed in 2002, with a maximum capacity of 10,000 gallons, with negligible emissions of volatile organic compounds, equipped with an activated carbon unit, exhausting to V12 and V13;
  - (2) one (1) liquid polyol storage tank, identified as emission unit B2, constructed in 2002, with a maximum capacity of 10,000 gallons, with negligible emissions of volatile organic compounds, exhausting to V14 and V15;
  - (3) polyurethane end cap and gasket molding processes used for several production lines, including nine (9) stations for dispensing polyurethane adhesive components (diisocyanate and polyol), identified as emission units C2, C7-1, C7-2, H11-1, H11-2, D13-1, D13-2, L8-1, and L8-2, constructed in 1980, 1980, 1980 (3), 2000, 2000 (2), 1990, 2006, 1997, and 1997 (2), utilizing flowcoating application of polyurethane adhesive onto plastic or metal end caps at a combined maximum usage rate of 1775 pounds of adhesive per hour, with

negligible emissions of volatile organic compounds, uncontrolled and exhausting to stack V41 or fugitive; associated equipment include three (3) electric filter element cure ovens servicing several production lines, constructed in 1980, 2006, and 1997, with emissions uncontrolled and exhausting to stacks V1, V5, and V8;

- (4) two (2) gasket adhesion units, #1 and #2, identified as emission units H13 and H8, respectively, constructed in 2000 and 2006, utilizing flowcoating application of adhesive to bond urethane gaskets to metal end caps at a combined maximum usage rate of 0.826 pounds of adhesive per hour, with unit #1 emissions uncontrolled and fugitive and unit #2 emissions uncontrolled and exhausting to stack V2;
- (5) one (1) boot gasket adhesion unit, identified as emission unit H9, constructed in 2006, utilizing flowcoating application of adhesive to bond urethane gaskets to metal end caps at a maximum usage rate of 0.103 pounds of adhesive per hour, with emissions uncontrolled and fugitive;
- (6) one (1) DIG Workcell operation, consisting of the following emission units:
  - (A) two (2) adhesive dispensing units, both identified as emission unit W1, constructed in 2002, for dispensing adhesive into metal end caps at an overall maximum usage rate of 3.252 pounds of adhesive per hour, with emissions uncontrolled and fugitive;
  - (B) two (2) adhesive dispensing units, identified as emission unit W2, constructed in 2002, for dispensing adhesive into metal end caps at an overall maximum usage rate of 0.443 pounds of adhesive per hour, with emissions uncontrolled and fugitive;
  - (C) one (1) hot plate adhesive curing operation, identified as emission unit W3, constructed in 1984, with negligible emissions of volatile organic compounds, uncontrolled and fugitive;
  - (D) one (1) gasket adhesion unit, identified as emission unit W4, constructed in 2002, utilizing flowcoating application of material to bond urethane gaskets to metal end caps at a maximum material usage of 0.083 pounds of adhesive per hour or 1.19 pounds of sealant per hour, with emission uncontrolled and fugitive;
- (7) one (1) end cap and gasket molding process for Power Core Line 4, identified as emission unit P3, approved for construction in 2004, including flowcoating application of adhesive onto filter media and flowcoating application of adhesive onto plastic end caps, with a potential to emit volatile organic compounds of 0.5 tons per year, with emissions exhausting through a stack;
- (8) one (1) filter element elastomeric rubber beading unit, identified as P17, constructed in 2009, with a maximum capacity of 160 pounds per hour (lb/hr), with emissions uncontrolled and fugitive.

Under the NESHAP for Surface Coating of Miscellaneous Metal Parts and Products (40 CFR 63, Subpart Mmmm), emission units B1, B2, H8, H9, H11-1, H11-2, H13, W1, W2, W3, and W4 are considered part of an existing affected source when directly related to the coating of metal parts or products.

Under the NESHAP for Surface Coating of Plastics Parts and Products (40 CFR 63, Subpart PPPP), emission units B1, B2, C2, C7-1, C7-2, D13-1, D13-2, L8-1, L8-2, and P3 are considered part of an existing affected source when directly related to the coating of plastic parts or products.

(b) one (1) metal end cap parts washer, identified as emission unit P1, constructed in 2003, utilizing a non-halogenated cleaner, uncontrolled and exhausting to stacks V9, V17, and V18; [326 IAC 8-3-2] [326 IAC 8-3-5]

Under the NESHAP for Surface Coating of Miscellaneous Metal Parts and Products (40 CFR 63, Subpart MMMM), the parts washer P1 is considered part of an existing affected source when directly related to the coating of metal parts or products.

(c) one (1) maintenance parts cold cleaner, identified as emission unit F1, constructed in 1980, with a maximum volume of 30 gallons and a maximum usage rate of 0.02 pounds of petroleum solvent per hour, with emissions uncontrolled and fugitive. [326 IAC 8-3-2]

(d) one (1) cold cleaning ultrasonic parts washer, identified as emission unit F2, constructed in 2006, with a maximum volume of 8.5 gallons and a maximum usage rate of 0.236 pounds of non-halogenated cleaning solvent per hour, with emissions uncontrolled and fugitive. [326 IAC 8-3-2] [326 IAC 8-3-5]

(The information describing the processes 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 PSD Minor Limit [326 IAC 2-2]**

In order to render the requirements of 326 IAC 2-2, not applicable, the filter media moisture removal operation (emission units C1, H1, D4, L1, P13, P14, P15, P16, and P7) shall be limited as follows:

- (a) The potential to emit VOC from heating of the filter media in the filter media moisture removal operation (emission units C1, H1, D4, L1, P13, P14, P15, and P16, and P7) shall not exceed 0.005 pounds of VOC per pound of filter media for high VOC-containing filter media and shall not exceed 0.0015 pounds of VOC per pound of filter media for low VOC-containing filter media. High VOC-containing filter media and low VOC-containing filter media shall be defined as listed in the below table; and
- (b) The total throughput of filter media to the filter media moisture removal operation (emission units C1, H1, D4, L1, P13, P14, P15, P16 and P7) shall be limited to less than 7,960,000 pounds of high VOC-containing filter media and less than 20,000,000 pounds of low VOC-containing filter media per twelve (12) consecutive month period, with compliance determined at the end of each month.

	Limited VOC/HAP Content of Filter Media (lb/lb)	Limited Filter Media Usage Rate (lbs/year)	Limited Potential to Emit VOC (tons/year)*
High VOC-Containing Filter Media	0.005	less than 7,960,000	less than 19.9
Low VOC-Containing Filter Media	0.0015	less than 20,000,000	less than 15
<b>Total Limited Potential to Emit VOC (tons/year)* =</b>			<b>less than 34.9</b>

Compliance with the limits in (a) and (b) with potential VOC emissions from other units will limit the source-wide VOC emissions to less than 250 tons per year and will render 326 IAC 2-2 not applicable to the source.

#### D.1.2 Volatile Organic Compound (VOC) [326 IAC 8-3]

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(a) Pursuant to 326 IAC 8-3-2 (Cold Cleaner Degreaser Control Equipment and Operating Requirements), for cold cleaning degreasers constructed after January 1, 1980, the Permittee shall ensure the following control equipment and operating requirements are met:

- (1) Equip the degreaser with a cover;
- (2) Equip the degreaser with a device for draining cleaned parts;
- (3) Close the degreaser cover whenever parts are not being handled in the degreaser;
- (4) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
- (5) Provide a permanent, conspicuous label that lists the operating requirements in subdivisions (3), (4), (6), and (7).
- (6) Store waste solvent only in closed containers.
- (7) Prohibit the disposal or transfer of waste solvent in such a manner that could allow greater than twenty percent (20%) of the waste solvent (by weight) to evaporate into the atmosphere.

(b) Pursuant to 326 IAC 8-3-2 (Cold Cleaner Degreaser Control Equipment and Operating Requirements), for cold cleaning degreasers without remote solvent reservoirs constructed after July 1, 1990, the Permittee shall ensure the following additional control equipment and operating requirements are met:

- (1) Equip the degreaser with one (1) of the following control devices if the solvent is heated to a temperature of greater than forty-eight and nine-tenths (48.9) degrees Celsius (one hundred twenty (120) degrees Fahrenheit):
  - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
  - (B) A water cover when solvent used is insoluble in, and heavier than, water.
  - (C) A refrigerated chiller.
  - (D) Carbon adsorption.
  - (E) An alternative system of demonstrated equivalent or better control as those outlined in clauses (A) through (D) that is approved by the department. An alternative system shall be submitted to the U.S. EPA as a SIP revision.
- (2) Ensure the degreaser cover is designed so that it can be easily operated with one (1) hand if the solvent is agitated or heated.
- (3) If used, solvent spray:
  - (A) must be a solid, fluid stream; and
  - (B) shall be applied at a pressure that does not cause excessive splashing.

#### D.1.3 Volatile Organic Compounds (VOC) [326 IAC 8-3-8]

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Pursuant to 326 IAC 8-3-8 (Material Requirements for Cold Cleaner Degreasers), on and after January 1, 2015, the Permittee shall not operate a cold cleaner degreaser with a solvent that has a VOC composite partial vapor pressure that exceeds one (1) millimeter of mercury (nineteenthousandths(0.019) pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

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

### **D.1.4 Record Keeping Requirements**

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- (a) To document the compliance status with Condition D.1.1, the Permittee shall maintain records in accordance with (1) and (3) below. Records maintained for (1) and (3) shall be complete and sufficient to establish compliance with the limitations established in Condition D.1.1.
- (1) The type and weight of filter media used on a monthly basis. Records shall include purchase orders, invoices, and/or Electronic Material Transaction Records (i.e. Oracle) necessary to verify the type and amount of filter media used.
  - (2) The VOC content of all filter media used (fraction by weight). Records shall include material safety data sheets (MSDS) or VOC data sheets.
  - (3) The VOC content of the filter media used (fraction by weight) determined from the most recent valid performance test that demonstrates the compliance status with D.1.1(a).
- (b) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the record keeping required by this condition.

### **D.1.4 Reporting Requirements**

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A quarterly summary of the information to document the compliance status with Condition D.1.1(a), D1.1 (c) shall be submitted using the reporting forms located at the end of this permit, or their equivalent, no later than thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34). Section C - General Reporting Requirements contains the Permittee's obligations with regard to the reporting required by this condition.

**SECTION E.1 National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products [326 IAC 20-80-1] [40 CFR Part 63, Subpart M]**

**Emission Unit Description:**

- (b) one (1) Hoosier Element Assembly Line consisting of one (1) cold cleaning system, identified as emission unit H2, constructed in 1984 and modified in 2000, consisting of one (1) soak tank with a maximum volume of 20 gallons and a maximum usage rate of 0.943 pounds of non-halogenated cleaning solvent per hour, with emissions uncontrolled and exhausting to stack V2, followed by one (1) water bath.
- (e) one (1) Printing Operation servicing all production lines, identified as S1, consisting of seventeen (17) printing units, constructed in 1992 (1), 1997 (4), 1999 (2), 2000, 2002 (2), 2003 (5), 2006 (1) and 2009 (1), using ink jet, pad printing, or UV-cure screen printing methods, coating paper, plastic, and metal, with a combined maximum usage rate of 2.0 pounds of printing inks and solvents per hour, with emissions uncontrolled and fugitive.

Insignificant Activities:

- (a) Adhesive, Sealant, and Glue Operation servicing several production lines, consisting of the following emission units:
  - (1) one (1) liquid methylene diisocyanate storage tank, identified as emission unit B1, constructed in 2002, with a maximum capacity of 10,000 gallons, with negligible emissions of volatile organic compounds, equipped with an activated carbon unit, exhausting to V12 and V13;
  - (2) one (1) liquid polyol storage tank, identified as emission unit B2, constructed in 2002, with a maximum capacity of 10,000 gallons, with negligible emissions of volatile organic compounds, exhausting to V14 and V15;
  - (3) polyurethane end cap and gasket molding processes used for several production lines, including nine (9) stations for dispensing polyurethane adhesive components (diisocyanate and polyol), identified as emission units C2, C7-1, C7-2, H11-1, H11-2, D13-1, D13-2, L8-1, and L8-2, constructed in 1980, 1980, 1980 (3), 2000, 2000 (2), 1990, 2006, 1997, and 1997 (2), utilizing flowcoating application of polyurethane adhesive onto plastic or metal end caps at a combined maximum usage rate of 1775 pounds of adhesive per hour, with negligible emissions of volatile organic compounds, uncontrolled and exhausting to stack V41 or fugitive; associated equipment include three (3) electric filter element cure ovens servicing several production lines, constructed in 1980, 2006, and 1997, with emissions uncontrolled and exhausting to stacks V1, V5, and V8;
  - (4) two (2) gasket adhesion units, #1 and #2, identified as emission units H13 and H8, respectively, constructed in 2000 and 2006, utilizing flowcoating application of adhesive to bond urethane gaskets to metal end caps at a combined maximum usage rate of 0.826 pounds of adhesive per hour, with unit #1 emissions uncontrolled and fugitive and unit #2 emissions uncontrolled and exhausting to stack V2;
  - (5) one (1) boot gasket adhesion unit, identified as emission unit H9, constructed in 2006, utilizing flowcoating application of adhesive to bond urethane gaskets to metal end caps at a maximum usage rate of 0.103 pounds of adhesive per hour, with emissions uncontrolled and fugitive;
  - (6) one (1) DIG Workcell operation, consisting of the following emission units:

- (A) two (2) adhesive dispensing units, both identified as emission unit W1, constructed in 2002, for dispensing adhesive into metal end caps at an overall maximum usage rate of 3.252 pounds of adhesive per hour, with emissions uncontrolled and fugitive;
  - (B) two (2) adhesive dispensing units, identified as emission unit W2, constructed in 2002, for dispensing adhesive into metal end caps at an overall maximum usage rate of 0.443 pounds of adhesive per hour, with emissions uncontrolled and fugitive;
  - (C) one (1) hot plate adhesive curing operation, identified as emission unit W3, constructed in 1984, with negligible emissions of volatile organic compounds, uncontrolled and fugitive;
  - (D) one (1) gasket adhesion unit, identified as emission unit W4, constructed in 2002, utilizing flowcoating application of material to bond urethane gaskets to metal end caps at a maximum material usage of 0.083 pounds of adhesive per hour or 1.19 pounds of sealant per hour, with emission uncontrolled and fugitive;
- (b) one (1) metal end cap parts washer, identified as emission unit P1, constructed in 2003, utilizing a non-halogenated cleaner, uncontrolled and exhausting to stacks V9, V17, and V18; [326 IAC 8-3-2] [326 IAC 8-3-5]
- Under the NESHAP for Surface Coating of Miscellaneous Metal Parts and Products (40 CFR 63, Subpart M MMM), the cleaning system H2, the printing operation S1, the parts washer P1, and emission units B1, B2, H8, H9, H11-1, H11-2, H13, W1, W2, W3, and W4 are considered part of an existing affected source when coating metal parts or products.
- (The information describing the processes contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

**National Emission Standards for Hazardous Air Pollutants [326 IAC 20] [40 CFR Part 63]**

E.1.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants under 40 CFR Part 63 [326 IAC 20-1] [40 CFR Part 63, Subpart A]

Pursuant to 40 CFR 63.3901, 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 for each existing affected source, as specified in Table 2 of 40 CFR 63, Subpart M MMM in accordance with schedule in 40 CFR 63 Subpart M MMM. The cleaning system H2, the printing operation S1, the parts washer P1, and emission units B1, B2, H8, H9, H11-1, H11-2, H13, W1, W2, W3, and W4 are considered part of an existing affected source when coating metal parts or products.

E.1.2 National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products [326 IAC 20-80-1] [40 CFR Part 63, Subpart M MMM]

The Permittee shall comply with the following provisions of 40 CFR 63, Subpart M MMM (National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products), included as Attachment A, for the cleaning system H2, the printing operation S1, the parts washer P1, and emission units B1, B2, H8, H9, H11-1, H11-2, H13, W1, W2, W3, and W4:

- (1) 40 CFR 63.3880
- (2) 40 CFR 63.3881
- (3) 40 CFR 63.3882
- (4) 40 CFR 63.3883

- (5) 40 CFR 63.3890
- (6) 40 CFR 63.3891(a) and (b)
- (7) 40 CFR 63.3892(a) and (c)
- (8) 40 CFR 63.3893(a) and (c)
- (9) 40 CFR 63.3900(a)(1) and (b)
- (10) 40 CFR 63.3901
- (11) 40 CFR 63.3910(a), (b), (c)(1) through (c)(8), (c)(10), and (c)(11)
- (12) 40 CFR 63.3920(a)(1) through (a)(6)
- (13) 40 CFR 63.3930(a), (b), (c)(1) through (c)(3), and (d) through (j)
- (14) 40 CFR 63.3931
- (15) 40 CFR 63.3940
- (16) 40 CFR 63.3941
- (17) 40 CFR 63.3942
- (18) 40 CFR 63.3950
- (19) 40 CFR 63.3951
- (20) 40 CFR 63.3952
- (21) 40 CFR 63.3980
- (22) 40 CFR 63.3981
- (23) Table 1
- (24) Table 2
- (25) Table 3
- (26) Table 4
- (27) Appendix A

## SECTION E.2 NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NESHA) REQUIREMENTS [326 IAC 2-7-5(1)]

### Emission Unit Description:

- (a) one (1) Caterpillar Filter Line consisting of one (1) cold cleaning system, identified as emission unit C6, constructed in 1980, consisting of one (1) soak tank with a maximum volume of 20 gallons and a maximum usage rate of 0.943 pounds of non-halogenated cleaning solvent per hour, with emissions uncontrolled and exhausting to stack V1, followed by one (1) water bath.
- (c) one (1) Hybrid Line consisting of one (1) cold cleaning system, identified as emission unit D17, constructed in 1992 and modified in 2000, consisting of one (1) soak tank with a maximum volume of 20 gallons and a maximum usage rate of 0.943 pounds of non-halogenated cleaning solvent per hour, with emissions uncontrolled and exhausting to stack V6, followed by one (1) water bath.
- (d) one (1) Express Filter Line consisting of one (1) cold cleaning system, identified as emission unit L7, constructed in 1998 and modified in 2000, consisting of one (1) soak tank with a maximum volume of 20 gallons and a maximum usage rate of 0.943 pounds of non-halogenated cleaning solvent per hour, with emissions uncontrolled and exhausting to stack V8, followed by one (1) water bath.
- (f) one (1) Printing Operation servicing all production lines, identified as S1, consisting of seventeen (17) printing units, constructed in 1992 (1), 1997 (4), 1999 (2), 2000, 2002 (2), 2003 (5), 2006 (1) and 2009 (1), using ink jet, pad printing, or UV-cure screen printing methods, coating paper, plastic, and metal, with a combined maximum usage rate of 2.0 pounds of printing inks and solvents per hour, with emissions uncontrolled and fugitive.
- (h) one (1) Mold Release Operation, identified as M1, consisting of seven (7) mold release spray booths servicing several production lines, constructed in 1980 (modified in 2002) (2), 1992 (1), 1997 (2), 2006 (1), and 2009 (3), utilizing low pressure, non-atomizing spray application of mold release on plastic molds prior to the polyurethane end cap molding processes, with a combined maximum usage rate of 6.128 pounds of mold release agent per hour, with emissions uncontrolled and exhausting to stack V41, V16, V5, V8, or fugitive; associated equipment includes six (6) electric mold preheat ovens, constructed in 1995 (2), 1997 (2), and 2006 (2), and three (3) element cure ovens, identified as P14, P15, and P16, constructed in 2009, with emissions uncontrolled and fugitive.

### Insignificant Activities:

- (a) Adhesive, Sealant, and Glue Operation servicing several production lines, consisting of the following emission units:
  - (1) one (1) liquid methylene diisocyanate storage tank, identified as emission unit B1, constructed in 2002, with a maximum capacity of 10,000 gallons, with negligible emissions of volatile organic compounds, equipped with an activated carbon unit, exhausting to V12 and V13;
  - (2) one (1) liquid polyol storage tank, identified as emission unit B2, constructed in 2002, with a maximum capacity of 10,000 gallons, with negligible emissions of volatile organic compounds, exhausting to V14 and V15;
  - (3) polyurethane end cap and gasket molding processes used for several production lines, including nine (9) stations for dispensing polyurethane adhesive components (diisocyanate and polyol), identified as emission units C2, C7-1, C7-2, D13-1, D13-2,

L8-1, and L8-2, constructed in 1980 (3), 1990, 2006, and 1997 (2), utilizing flowcoating application of polyurethane adhesive onto plastic or metal end caps at a combined maximum usage rate of 1775 pounds of adhesive per hour (for all nine (9) units from A.3), with negligible emissions of volatile organic compounds, uncontrolled and exhausting to stack V41 or fugitive; associated equipment include three (3) electric filter element cure ovens servicing several production lines, constructed in 1980, 2006, and 1997, with emissions uncontrolled and exhausting to stacks V1, V5, and V8;

- (7) one (1) end cap and gasket molding process for Power Core Line 4, identified as emission unit P3, approved for construction in 2004, including flowcoating application of adhesive onto filter media and flowcoating application of adhesive onto plastic end caps, with a potential to emit volatile organic compounds of 0.5 tons per year, with emissions exhausting through a stack;

Under the NESHAP for Surface Coating of Plastics Parts and Products (40 CFR 63, Subpart PPPP), the cleaning systems C6, D17, and L7, the printing operation S1, the mold release operation M1, and emission units B1, B2, C2, C7-1, C7-2, D13-1, D13-2, L8-1, L8-2, and P3 are considered part of an existing affected source when coating plastic parts or products.

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

### **National Emission Standards for Hazardous Air Pollutants [326 IAC 20] [40 CFR Part 63]**

#### **E.2.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants under 40 CFR Part 63 [326 IAC 20-1] [40 CFR Part 63, Subpart A]**

Pursuant to 40 CFR 63.4501, 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 for each existing affected source, as specified in Table 2 of 40 CFR 63, Subpart PPPP in accordance with schedule in 40 CFR 63 Subpart PPPP. The cleaning systems C6, D17, and L7, the printing operation S1, the mold release operation M1, and emission units B1, B2, C2, C7-1, C7-2, D13-1, D13-2, L8-1, L8-2, and P3 are considered part of an existing affected source when coating plastic parts or products.

#### **E.2.2 National Emission Standards for Hazardous Air Pollutants for Surface Coating of Plastic Parts and Products [326 IAC 20-81-1] [40 CFR Part 63, Subpart PPPP]**

The Permittee shall comply with the following provisions of 40 CFR 63, Subpart PPPP (National Emission Standards for Hazardous Air Pollutants for Surface Coating of Plastic Parts and Products), included as Attachment B, for the cleaning systems C6, D17, and L7, the printing operation S1, the mold release operation M1, and emission units B1, B2, C2, C7-1, C7-2, D13-1, D13-2, L8-1, L8-2, and P3:

- (1) 40 CFR 63.4480
- (2) 40 CFR 63.4481
- (3) 40 CFR 63.4482
- (4) 40 CFR 63.4483
- (5) 40 CFR 63.4490
- (6) 40 CFR 63.4491(a) and (b)
- (7) 40 CFR 63.4492(a) and (c)
- (8) 40 CFR 63.4493(a) and (c)
- (9) 40 CFR 63.4500(a)(1) and (b)
- (10) 40 CFR 63.4501
- (11) 40 CFR 63.4510(a), (b), (c)(1) through (c)(8), (c)(10), and (c)(11)
- (12) 40 CFR 63.4520(a)(1) through (a)(6)
- (13) 40 CFR 63.4530(a), (b), (c)(1) through (c)(3), and (d) through (h)

- (14) 40 CFR 63.4531
- (15) 40 CFR 63.4540
- (16) 40 CFR 63.4541
- (17) 40 CFR 63.4542
- (18) 40 CFR 63.4550
- (19) 40 CFR 63.4551
- (20) 40 CFR 63.4552
- (21) 40 CFR 63.4580
- (22) 40 CFR 63.4581
- (23) Table 2
- (24) Table 3
- (25) Table 4
- (26) Appendix A

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE AND ENFORCEMENT BRANCH  
PART 70 OPERATING PERMIT  
CERTIFICATION**

Source Name: Donaldson Company, Inc.  
Source Address: 3260 West State Road 28, Frankfort, Indiana 46041  
Part 70 Permit No.: T023-31399-00024

**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: Donaldson Company, Inc.  
Source Address: 3260 West State Road 28, Frankfort, Indiana 46041  
Part 70 Permit No.: T023-31399-00024

**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 Section); and
  - The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16.

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency:
Describe the cause of the Emergency:

If any of the following are not applicable, mark N/A

**Page 2 of 2**

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency?    Y    N
Type of Pollutants Emitted: TSP, PM-10, SO <sub>2</sub> , VOC, NO <sub>x</sub> , 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: \_\_\_\_\_

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE DATA SECTION**

**Part 70 Quarterly Report**

Source Name: Donaldson Company, Inc.  
Source Address: 3260 W. State Road 28, Frankfort, Indiana 46041  
Part 70 Permit No.: T023-31399-00024  
Facilities: Filter Media Moisture Removal (Emission Units C1, D4, H1, L1, P13, P14, P15, P16 and P7)  
Parameter: High VOC-Containing Filter Media Usage  
Limits: Less than a total of 8,000,000 pounds of high VOC-containing filter media per twelve (12) consecutive month period with compliance determined at the end of each month.

QUATER: \_\_\_\_\_ YEAR: \_\_\_\_\_

Month	High VOC-Containing Filter Media Usage (pounds)	High VOC-Containing Filter Media Usage (pounds)	High VOC-Containing Filter Media Usage (pounds)
	This Month	Previous 11 Months	12 Month Total

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.  
Deviation has been reported on: \_\_\_\_\_

Submitted by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE DATA SECTION

## Part 70 Quarterly Report

Source Name: Donaldson Company, Inc.  
Source Address: 3260 W. State Road 28, Frankfort, Indiana 46041  
Part 70 Permit No.: T023-31399-00024  
Facilities: Filter Media Moisture Removal (Emission Units C1, D4, H1, L1, P13, P14, P15, and P16 and P7)  
Parameter: Low VOC-Containing Filter Media Usage  
Limits: Less than a total of 20,000,000 pounds of low VOC-containing filter media per twelve (12) consecutive month period with compliance determined at the end of each month.

QUATER: \_\_\_\_\_ YEAR: \_\_\_\_\_

Month	Low VOC-Containing Filter Media Usage (pounds)	Low VOC-Containing Filter Media Usage (pounds)	Low VOC-Containing Filter Media Usage (pounds)
	This Month	Previous 11 Months	12 Month Total

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.  
Deviation has been reported on: \_\_\_\_\_

Submitted by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE DATA SECTION**

**PART 70 OPERATING PERMIT  
QUARTERLY DEVIATION COMPLIANCE MONITORING REPORT**

Source Name: Donaldson Company, Inc.  
Source Address: 3260 W. State Road 28, Frankfort, Indiana 46041  
Part 70 Permit No.: T023-31399-00024

Months: \_\_\_\_\_ to \_\_\_\_\_ Year: \_\_\_\_\_

Page 1 of 2

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:**

**Page 2 of 2**

<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	
<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	
<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	

Form Completed by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Appendix A: Emissions Calculations  
Emission Summary

Company Name: Donaldson Company, Inc.  
Address City IN Zip: 3260 W. State Road 28, Frankfort, Indiana 46041  
AA No.: 023-33367-00024  
Reviewer: Anh Nguyen  
Date: 6/30/13

Uncontrolled Potential Emissions (tons/year)

Category	Pollutant	Emissions Generating Activity														TOTAL
		Bonder	polyurethane end cap molding process	Media Treatment	Filter Media Heating, Steaming, Curing, and Dry Off	Mold Release	Adhesive, Sealant, and Glue Operation	Printing Operation	Cleaning Solvents, Cleaning Systems, and Parts Washers	Media Ink Marking	Metal Working Equipment Lubrication	Brazing, Cutting, Torches, Soldering, Welding	Shrink Wrap Packaging & Media Trimming	Natural Gas Combustion Units	Filter Media Adhesive	
Emission Units		P19	P18	G1	C1, H1, D4, D11, L1, P13, P14, P15, P16 including P7 operation	M1	P8, P9, P10, B1, B2, C2, C7-1, C7-2, H11-1, H11-2, D13-1, D13-2, L8-1, L8-2, H13, H8, H9, W1, W2, W3, W4, P3, L8-1, L8-2, P17	S1	C6, D17, L7, P12, P1, F1, F2	K1	P2,P3, P6, T1,T2	R1	A1, T3	Large Parts Washer	C5,C8, D9, H10, H12, L6, L9,W5	
Criteria Pollutants	PM					0.000	0.000	0.007	0.000	0.049	0.006	0.008	Negl.	0.072		0.14
	PM10					0.000	0.000	0.007	0.000	0.049	0.006		Negl.	0.288		0.35
	PM2.5					0.000	0.000	0.007	0.000	0.049	0.006		Negl.	0.288		0.35
	SO2												Negl.	0.023		0.02
	NOx												Negl.	3.786		3.79
	VOC	0	0	3.300	201.500	27.748	2.875	2.390	21.773	0.012	3.130	0.008	Negl.	0.208	0.24	263.18
	CO												Negl.	3.180		3.18
	GHG											Negl.	4,570.407		4,570.41	
Hazardous Air Pollutants	Xylenes						9.4E-03		0.0E+00							0.01
	Chromium													5.3E-05		0.00
	Manganese													1.4E-05		0.00
	Nickel													7.9E-05		0.00
	n-Hexane													0.07		0.07
	Toluene													1.3E-04		0.00
	Benzene													7.9E-05		0.00
	Dichlorobenzene													4.5E-05		0.00
	Formaldehyde				201.50									2.8E-03		201.50
	MIBK								0.03							0.03
	Lead													1.9E-05		0.00
	Cadmium													4.2E-05		0.00
<b>Totals</b>		<b>0</b>	<b>0</b>		<b>201.50</b>	<b>0</b>	<b>9.4E-03</b>		<b>0.0E+00</b>			<b>0.07</b>		<b>7.1E-02</b>		<b>201.58</b>

Total emissions based on rated capacity at 8,760 hours/year.

**Appendix A: Emissions Calculations  
Emission Summary**

Company Name: Donaldson Company, Inc.  
Address City IN Zip: 3260 W. State Road 28, Frankfort, Indiana 46041  
AA No.: 023-33367-00024  
Reviewer: Anh Nguyen  
Date: 6/30/13

<b>Limited Emissions (tons/year)</b>
--------------------------------------

The source-wide emissions are provided as follows for verification that the entire source will remain a minor source under PSD after this modification.

Emissions Generating Activity																
Category	Pollutant	Bonder	polyurethane end cap molding process	Media Treatment	Filter Media Heating, Steaming, Curing, and Dry Off	Mold Release	Adhesive, Sealant, and Glue Operation	Printing Operation	Cleaning Solvents, Cleaning Systems, and Parts Washers	Media Ink Marking	Metal Working Equipment Lubrication	Brazing, Cutting, Torches, Soldering, Welding	Shrink Wrap Packaging & Media Trimming	Natural Gas Combustion Units	Filter Media Adhesive	TOTAL
Emission Units		P19	P18	G1	C1, H1, D4, D11, L1, P13, P14, P15, P16 including P7 operation	M1	P8, P9, P10, B1, B2, C2, C7-1, C7-2, H11-1, H11-2, D13-1, D13-2, L8-1, L8-2, H13, H8, H9, W1, W2, W3, W4, P3, L8-1, L8-2, P17	S1	C6,H2, D17, L7, P12, P1, F1, F2	K1	P2,P3, P6, T1,T2	R1	A1, T3	Large Parts Washer	C5,C8, D9, H10, H12, L6, L9,W5	
Criteria Pollutants	PM					0.000	0.000	0.007	0	0.049	0.006	0.008	Negl.	0.072		0.14
	PM10					0.000	0.000	0.007	0	0.049	0.006	0.008		0.288		0.36
	PM10					0.000	0.000	0.007	0	0.049	0.006	0.008		0.288		0.36
	SO2													0.023		0.02
	NOx													3.786		3.79
	VOC	0.00	0			35.00	27.75	2.88	2.390	21.77	0.012	3.130		0.208	0.24	93.38
	CO													3.180		3.18
	GHG													4,570.407		4570.41
Hazardous Air Pollutants	Xylenes			3.300			9.4E-03		0.0E+00					0.000		3.31
	Chromium													5.3E-05		0.00
	Manganese													1.4E-05		0.00
	Nickel													7.9E-05		0.00
	n-Hexane													0.07		0.07
	Toluene													1.3E-04		0.00
	Benzene													7.9E-05		0.00
	Dichlorobenzene													4.5E-05		0.00
	Formaldehyde					35.00								2.8E-03		35.00
	MIBK							0.03								0.03
	Ethyl Glycol														0.12	0.12
	Lead													1.9E-05		0.00
	Cadmium													4.2E-05		0.00
	<b>Totals</b>		<b>11</b>	<b>0</b>		<b>35.00</b>	<b>0.0</b>	<b>9.4E-03</b>		<b>0.0E+00</b>					<b>7.1E-02</b>	<b>0.12</b>
														0.068		

Total emissions based on rated capacity at 8,760 hours/year.

**Appendix A: Emissions Calculations  
Bonder (P19)**

**Company Name: Donaldson Company, Inc.**  
**Address City IN Zip: 3260 W. State Road 28, Frankfort, Indiana 46041**  
**AA No.: 023-33367-00024**  
**Reviewer: Anh Nguyen**  
**Date: 6/30/13**

Polyolefin Hotmelt Bostik 9389 - Actual

lbs hotmelt/unit	0.053
max filter unit thru-put annually (unit/yr)	411,053
lbs hotmelt / year	21,786
* tons hotmelt used / year	11

Emission Unit Description	Max. Production Rate (lb/hr)	Emission Factor (lb PM/lb Parts Proc.)	Uncontrolled Potential Emissions (lb/hr)	Uncontrolled Potential Emissions (ton/yr)
PTE Polyolefin Hotmelt Bostik 9389	15.90	0.00	0.00	0.00

estimate 300 unit / hour. Machine will not being running all shifts. **0.053 lbs hotmelt/unit \* 300 unit/hr = 15.9 lbs hotmelt / hr**

(15.9 lbs / hr hotmelt x 0 %VOC) x 8,760 hrs/yr x 1 ton/2000 lbs = 0 tpy

**METHODOLOGY**

Potential Emissions (tons/yr) = Max. Production Rate (lb/hr) \* Emission Factor (lb PM/lb Parts Processed) \* 8760 hrs/yr \* 1 ton/2000 lbs

Emission Factor Calculation:

The emission factor is from material balance using actual process weight loss calculations.

There are no VOC or HAP in the Hotmelt (source BASF chemicalCompany - letter addressed 5/30/2013 to Donalson Company)

**Appendix A: Emissions Calculations  
Media Treatment**

**Company Name: Donaldson Company, Inc.  
Address City IN Zip: 3260 W. State Road 28, Frankfort, Indiana 46041  
Part 70 Operating Permit No.: 023-31399-00024  
Reviewer: Anh Nguyen  
Date: 1/24/12**

Emission Unit	Capacity		Pollutant	Emission Factor		Limited Throughput (lb/yr)	Emissions				Note	
	Value	Units		Value	Units		Potential (lbs/hr)	Potential (tons/yr)	Limited (lbs/hr)	Limited (tons/yr)		
P18	129		*ISO	0			0.00E+00	0.00E+00			1	
Polyurethan	287		**POLY	0			0.00E+00	0.00E+00				
Total Emissions							VOC	0.00	0.00			
							Total HAPs	0.00	0.00			

Notes:

\*ISO isocyanate

\*\*POLY Poly glycols; > 1000 MW, VP= 10<sup>-3</sup> source BASF

1 This unit is comparable to unit P11 and use the same Poly and ISO material

VOC emissions from the molding process are negl. due to the reaction process of the ISO and Poly, which when combined, create polyurethane end cr

**Appendix A: Emissions Calculations  
Media Treatment**

**Company Name: Donaldson Company, Inc.**  
**Address City IN Zip: 3260 W. State Road 28, Frankfort, Indiana 46041**  
**AA No.: 023-33367-00024**  
**Reviewer: Anh Nguyen**  
**Date: 6/30/13**

**Uncontrolled Potential to Emit Volatile Organic Compounds (VOC) and Particulate Matter (PM)**

Process	Line	Emission Unit Description	Emission Unit ID #	Material	Material Density lbs/gal	PM/PM10 Content lbs/gal	VOC Content lbs/gal	Maximum Usage Rate lbs/hr	Maximum Usage Rate gal/hr	Maximum Usage Rate gal/yr	VOC fraction by Wgt.	PTE VOC lbs/hr	PTE VOC lbs/yr	PTE VOC tons/yr	PTE PM/PM10 lbs/hr	PTE PM/PM10 tons/yr	Transfer Efficiency (%)*
Media Treatment	Hoosier Line	Media Oil Treatment Unit	G1	Calsol 850 (Petroleum Oil)	7.670	0	0.610	3.13	0.41	3573.7	0.080	0.25	2179.9	1.09	0	0	95%
Media Treatment	Hoosier Line	Media Oil Treatment Unit	see G1	Phosflex 41L (Fire Retardent)	9.680	0	0.053	0.755	0.078	683.2	0.005	0.004	36.2	0.018	0	0	95%
Media Treatment	Hybrid Line	Media Oil Treatment Unit	G1	Calsol 850 (Petroleum Oil)	7.670	0	0.610	3.13	0.41	3573.7	0.080	0.25	2179.9	1.09	0	0	95%
Media Treatment	Express Line	Media Oil Treatment Unit	G1	Calsol 850 (Petroleum Oil)	7.670	0	0.610	3.13	0.41	3573.7	0.080	0.25	2179.9	1.09	0	0	95%

\*The Media Treatment Units use roll coating application of the material.

<b>Totals</b>	<b>0.75</b>	<b>6576</b>	<b>3.3</b>	<b>0</b>	<b>0</b>
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**METHODOLOGY**

Maximum Usage Rate (gal/hr) = [Maximum Usage Rate (lbs/hr)] / [Material Density (lbs/gal)]  
 Maximum Usage Rate (gal/yr) = [Maximum Usage Rate (gal/hr)] [8760 hrs/yr]  
 VOC fraction by weight = [VOC Content (lbs/gal)] / [Material Density (lbs/gal)]  
 PTE of VOC (lbs/hr) = [Maximum Usage (lbs/hr)] \* [VOC fraction by weight]  
 PTE of VOC (lbs/yr) = [PTE of VOC (lbs/hr)] \* [8760 hrs/yr]  
 PTE of VOC (tons/yr) = [PTE of VOC (lbs/yr)] \* [1 ton/2000 lbs]  
 PTE of PM/PM10 (lbs/hr) = [PM/PM10 Content (lbs/gal)] \* [Maximum Usage Rate (gal/hr)] \* [1 - Transfer efficiency]  
 PTE of PM/PM10 (tons/yr) = [PTE of PM/PM10 (lbs/hr)] \* [8760 hrs/yr] \* [1 ton/2000 lbs]

The materials used in the Media Treatment Process do not contain Hazardous Air Pollutants (HAPs)

**Appendix A: Emissions Calculations**  
**Filter Media Heating, Steaming, Curing, and Dry Off**

**Company Name: Donaldson Company, Inc.**  
**Address City IN Zip: 3260 W. State Road 28, Frankfort, Indiana 46041**  
**AA No.: 023-33367-00024**  
**Reviewer: Anh Nguyen**  
**Date: 6/30/13**

**Uncontrolled Potential to Emit**

Based on the material safety data sheet for the paper filter media and additional information provided by the source, heating of the paper filter media releases residual formaldehyde (emission factor ranging from 0 to 0.005 pounds of formaldehyde per pound of cellulosic filter paper), which is a by-product of the paper manufacturing process. For this TSD, the potential to emit residual formaldehyde from the filter media heating, steaming, curing, and dry off processes (emission units C1, H1, D4, L1, and associated processes) was calculated using the worst case emission factor of 0.005 pounds of formaldehyde per pound of cellulosic filter paper.

Line	Emission Unit ID #	Maximum Filter Media Usage Rate (lbs/hr)	Worst Case VOC Content of Filter Media (lb/lb)	PTE of VOC (lbs/hr)	PTE of VOC (lbs/yr)	PTE of VOC (tons/yr)	Worst Case Formaldehyde Content of Filter Media (lb/lb)	PTE of Formaldehyde (tons/yr)*
Caterpillar Line	C1	2000	0.005	10.0	87,600	43.8	0.005	43.8
Hoosier Line	H1	2000	0.005	10.0	87,600	43.8	0.005	43.8
Hybrid Line	D4	2000	0.005	10.0	87,600	43.8	0.005	43.8
Express Line	L1	2000	0.005	10.0	87,600	43.8	0.005	43.8
Express Line	P7	1201	0.005	6.0	52,604	26.3	0.005	26.3

<b>Unlimited Potential to Emit =</b>				<b>46.0</b>	<b>403,004</b>	<b>201.5</b>	<b>201.5</b>
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**Limited Potential to Emit - Caterpillar, Hoosier, Hybrid, and Express Lines**

For the limited potential to emit for the [Caterpillar](#), [Hoosier](#), [Hybrid](#), and [Express Lines](#) combined, the source has accepted separate VOC limits for high and low VOC-containing filter media (0.005 and 0.0015 pounds of VOC per pound of filter media, respectively), with filter media usage rates limited to less than 7,960,000 and 20,000,000 per twelve (12) consecutive month period, respectively.

	Limited VOC/HAP Content of Filter Media (lb/lb)	Limited Filter Media Usage Rate (lbs/year)	Limited Potential to Emit VOC (tons/year)*
High VOC-Containing Filter Media	0.005	less than 7,960,000	less than 19.9
Low VOC-Containing Filter Media	0.0015	less than 20,000,000	less than 15.0
<b>Total</b>			<b>less than 34.9</b>

\*Since formaldehyde is a VOC, limiting emission of VOCs to less than 25 tons per year is also expected to reduce emissions of formaldehyde to less than 25 tons per year. Limiting the PTE of VOC from the filter media moisture removal operation (emission units C1, H1, D4, L1, P13, P14, P15, P16, and P7) to less than twenty five (25) tons per year shall render the requirements of 326 IAC 8-1-6 and 326 IAC 2-2 not applicable.

**METHODOLOGY**

PTE of VOC (lbs/hr) = [Filter Media Usage Rate (lbs/hr)] \* [VOC Content of Filter Media (lb/lb)]

PTE of VOC (lbs/yr) = [PTE of VOC (lbs/hr)] \* [8760 hrs/yr]

PTE of VOC (tons/yr) = [PTE of VOC (lbs/yr)] \* [1 ton/2000 lbs]

PTE of Formaldehyde (tons/yr) = [Filter Media Usage Rate (lbs/hr)] \* [Formaldehyde Content of Filter Media (lb/lb)] \* [8760 hours/yr] \* [1 ton/2000 lbs]

Limited PTE of VOC (tons/yr) = [Limited Filter Media Usage Rate (lbs/yr)] \* [Limited VOC Content of Filter Media (lb/lb)] \* [1 ton/2000 lbs]

**Appendix A: Emissions Calculations  
Media Treatment**

**Company Name: Donaldson Company, Inc.  
Address City IN Zip: 3260 W. State Road 28, Frankfort, Indiana 46041  
AA No.: 023-33367-00024  
Reviewer: Anh Nguyen  
Date: 6/30/13**

Emission Unit	Capacity		Pollutant	Emission Factor		Limited Throughput (lb/yr)	Emissions				Note
	Value	Units		Value	Units		Potential (lbs/hr)	(tons/yr)	Limited (lbs/hr)	(tons/yr)	
P7 Electric Infrared Media Heater (including P14, P16)	1,201	lbs/hr filter media	Formaldehyde	0.005	lb/lb media	7,960,000	6.01	26.30	6.01	19.90	1
			VOC	0.005	lb/lb media	7,960,000	6.01	26.30	6.01	19.90	
P8 Adhesive Dispensing	120	lbs/hr polyolefin	VOC	0.00	lb/lb polyolefin		0.00	0.00	0.00	0.00	2
	168	lbs/hr polyamide	VOC	0.00	lb/lb polyamide		0.00	0.00	0.00	0.00	
P9 Adhesive Dispensing	63.9	lbs/hr mixture	MDI	NA			4.00E-05	1.75E-04	4.00E-05	1.75E-04	3
			VOC	NA			4.00E-05	1.75E-04	4.00E-05	1.75E-04	
P10 Adhesive	21.5	lbs/hr polyolefin	VOC	0.00	lb/lb polyolefin		0.00	0.00	0.00	0.00	2
	119	lbs/hr fiberboard	VOC	0.00	lb/lb fiberboard		0.00	0.00	0.00	0.00	4
P11 Polyurethan	416	lbs/hr mixture	MDI	NA			1.16E-04	5.07E-04	1.16E-04	5.07E-04	3
			VOC	NA			1.16E-04	5.07E-04	1.16E-04	5.07E-04	
Total Emissions			VOC				6.01	26.30	6.01	19.90	
			Formaldehyde				6.01	26.30	6.01	19.90	
			MDI				1.56E-04	6.82E-04	1.56E-04	6.82E-04	
			Total HAPs				6.01	26.30	6.01	19.90	

Notes: Limited PTE =  $\frac{7,960,000 \text{ lb/yr} * 0.005 \text{ lb/lb}}{2000 \text{ lb/ton}} = 19.9 \text{ t/y}$

1. The P7 Electric Infrared Media Heater processes a maximum of 1,201 lbs/hr for 582 Substrate Filter Media (MSDS #5304) and 914 lbs/hr for 368 Substrate Filter Media (MSDS #5615). Each MSDS lists Formaldehyde content < 1%. The emission factor for high Formaldehyde content filter media is conservatively applied, 0.005 lb/lb filter media. This is considered conservative since the media temperature will not exceed 200 degrees F and the web is only under the heater for 0.5 seconds.

The filter media from page 4 and P7 Electric Infrared Media Heater will have a combined throughput limit of 7,960,000 lbs of filter media per year. This will limit the Formaldehyde to less than 19.9 tpy to render 326 IAC 2-4.1-1 New Source Toxics Control not applicable.

2. The polyolefin (MSDS #1891) and polyamide (MSDS #15771) are hot melt coatings. According to AP-42 Section 4.2.2.9, Pressure Sensitive Tapes and Labels, Subsection 4.2.2.9.3, last paragraph: "... As an alternate emission control technique, the PSTL industry is also using low-VOC content coatings to reduce their VOC emissions. Waterborne and hot melt coatings and radiation-cured prepolymers are examples of these low-VOC-content coatings. Emissions of VOC from such coatings are negligible or zero."

3. Potential and actual emissions are from the MDI Emissions Estimator (distributed by the American Chemistry Council).

4. According to MSDS VHR-115, there are no hazardous components in the End Panel material.

## Appendix A: Emissions Calculations

Company Name: Donaldson Company, Inc.  
Address City IN Zip: 3260 W. State Road 28, Frankfort, Indiana 46041  
AA No.: 023-33367-00024  
Reviewer: Anh Nguyen  
Date: 6/30/13

<b>Air Filter Manufacturing Line 4 - PowerCore -</b>
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electric units	Equipment	Associated Material	Material Rate/Capacity lbs/ Hour	Stack or Wall Vent	Tons Per Yr VOC	Tons Per Yr Particulate
Media Dry Off Oven	P13	Solid Material Weight Varies	See P7	V41	*	0
Element Cure Oven Number 1	P14	Cellulose and Synthetic	See P7	V41	*	0
Element Cure Oven Number 2	P15	Cellulose and Synthetic	See P7	V41	*	0
Element Cure Oven Number 3	P16	Cellulose and Synthetic	See P7	V41	*	0
<b>Totals:</b>					<b>0.00</b>	<b>0</b>

Filter Element End Cap Inkjet Printing	S1	Imaje Ink 5132 (Yellow)	0.010	Fugitive**	0.00	0
		PNK 303 Make Up (MEK)	0.042	Fugitive**	0.00	0
Filter Element Elastomeric Rubber	P17	Loctite Terostat MS 939	160	Fugitive**	0.00	0

**NOTE:**

\*Emissions from P13, P14, P15, and P16 are accounted for in the previous modification under MSM 023-26711-00024, issued on August 11, 2008.

\*\*Emissions from S1 and P17 are fugitive; therefore, these are not included in the potential to emit for the modification.

**Appendix A: Emissions Calculations  
Mold Release**

**Company Name: Donaldson Company, Inc.  
Address City IN Zip: 3260 W. State Road 28, Frankfort, Indiana 46041  
AA No.: 023-33367-00024  
Reviewer: Anh Nguyen  
Date: 6/30/13**

**Uncontrolled Potential to Emit Volatile Organic Compounds (VOC) and Particulate Matter (PM)**

Process	Line	Emission Unit Description	Emission Unit ID #	Material	Material Density lbs/gal	PM/PM10 Content lbs/gal	VOC Content lbs/gal	Maximum Usage Rate lbs/hr	Maximum Usage Rate gal/hr	Maximum Usage Rate gal/yr	VOC fraction by Wgt.	PTE VOC lbs/hr	PTE VOC lbs/hr	PTE VOC tons/yr	PTE PM/PM10 lbs/hr	PTE PM/PM10 tons/yr	Transfer Efficiency (%)*
Mold Release	Express Line	Mold Release Spray Booth Unit Number 1	M1	Ease Release Formula 82-36 (Mold Release)	6.266	0	5.640	1.25	0.20	1747.7	0.90	1.13	9,857	4.93	0	0	85%
Mold Release	Express Line	Mold Release Spray Booth Unit Number 2	M1	Ease Release Formula 82-36 (Mold Release)	6.266	0	5.640	1.25	0.20	1747.7	0.90	1.13	9,857	4.93	0	0	85%
Mold Release	Cateriller Line	Mold Release Spray Booth Unit Number 1	M1	Ease Release Formula 82-36 (Mold Release)	6.266	0	5.640	0.907	0.14	1268.1	0.90	0.82	7,152	3.58	0	0	85%
Mold Release	Cateriller Line	Mold Release Spray Booth Unit Number 2	M1	Ease Release Formula 82-36 (Mold Release)	6.266	0	5.640	0.907	0.14	1268.1	0.90	0.82	7,152	3.58	0	0	85%
Mold Release	Hybrid Line	Mold Release Spray Booth Unit Number 1	M1	Ease Release Formula 82-36 (Mold Release)	6.266	0	5.640	0.907	0.14	1268.1	0.90	0.82	7,152	3.58	0	0	85%
Mold Release	Hybrid Line	Mold Release Spray Booth Unit Number 2	M1	Ease Release Formula 82-36 (Mold Release)	6.266	0	5.640	0.907	0.14	1268.1	0.90	0.82	7,152	3.58	0	0	85%
Mold Release	PowerCore Line 4	Mold Release Spray Booth Unit Number 1	M1	Ease Release Formula 82-36 (Mold Release)	6.266	0	5.640	0.862	0.14	1205.2	0.95	0.82	7,174	3.59	0	0	85%

\*The Molde Release Spray Booths utilize low pressure, non-atomizing spray application.

<b>Totals</b>	<b>6.34</b>	<b>55,496</b>	<b>27.75</b>	<b>0</b>	<b>0</b>
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**METHODOLOGY**

Maximum Usage Rate (gal/hr) = [Maximum Usage Rate (lbs/hr)] / [Material Denisty (lbs/gal)]  
 Maximum Usage Rate (gal/yr) = [Maximum Usage Rate (gal/hr) ] [8760 hrs/yr]  
 VOC fraction by weight = [VOC Content (lbs/gal)] / [Material Denisty (lbs/gal)]  
 PTE of VOC (lbs/hr) = [Maximum Usage (lbs/hr)] \* [VOC fraction by weight]  
 PTE of VOC (lbs/yr) = [PTE of VOC (lbs/hr)] \* [8760 hrs/yr]  
 PTE of VOC (tons/yr) = [PTE of VOC (lbs/yr)] \* [1 ton/2000 lbs]  
 PTE of PM/PM10 (lbs/hr) = [PM/PM10 Content (lbs/gal)] \* [Maximum Usage Rate (gal/hr)] \* [1 - Transfer efficiency)]  
 PTE of PM/PM10 (tons/yr) = [PTE of PM/PM10 (lbs/hr)] \* [8760 hrs/yr] \* [1 ton/2000 lbs]

The materials used in the Mold Release Process do not contain Hazardous Air Pollutants (HAPs)

**Appendix A: Emissions Calculations  
Adhesive, Sealant, and Glue Operation**

Company Name: Donaldson Company, Inc.  
Address City IN Zip: 3260 W. State Road 28, Frankfort, Indiana 46041  
AA No.: 023-33367-00024  
Reviewer: Anh Nguyen  
Date: 6/30/13

**Uncontrolled Potential to Emit Volatile Organic Compounds (VOC) and Particulate Matter (PM)**

Process	Line	Emission Unit Description	Emission Unit ID #	Material	Material Density lbs/gal	PM/PM10 Content lbs/gal	VOC Content lbs/gal	Maximum Usage Rate lbs/hr	Maximum Usage Rate gal/hr	Maximum Usage Rate gal/yr	VOC fraction by Wgt.	PTE VOC lbs/hr	PTE VOC lbs/yr	PTE VOC tons/yr	PTE PM/PM10 lbs/hr	PTE PM/PM10 tons/yr	Transfer Efficiency (%)*
Adhesive, Sealant, and Glue Operation	Hoosier Line	Gasket Adhesion Unit #1	H13	Apollo Z-396 (Cyanoacrylate Adhesive)	8.85	0	0.167	0.413	0.047	409	0.019	0.008	68	0.034	0	0	100%
Adhesive, Sealant, and Glue Operation	Hoosier Line	Gasket Adhesion Unit #2	H8	Apollo Z-396 (Cyanoacrylate Adhesive)	8.85	0	0.167	0.413	0.047	409	0.019	0.008	68	0.034	0	0	100%
Adhesive, Sealant, and Glue Operation	DIG Workcell	Boot Gasket Adhesion unit	H9	Apollo Z-396 (Cyanoacrylate Adhesive)	8.85	0	0.167	0.103	0.012	102	0.019	0.002	17	0.009	0	0	100%
Adhesive, Sealant, and Glue Operation	DIG Workcell	AST Plastisol Encap Dispense Number 1	W1	PolyOne 9496 Self-Adhereing Plastisol	12.93	0	0.250	1.05	0.08	708	0.019	0.020	177	0.088	0	0	100%
Adhesive, Sealant, and Glue Operation	DIG Workcell	AST Plastisol Encap Dispense Number 2	W1	PolyOne 9716 Gray Self-Adhereing Plastisol	12.85	0	0.290	3.25	0.25	2,217	0.0226	0.073	643	0.321	0	0	100%
Adhesive, Sealant, and Glue Operation	DIG Workcell	Endcap Dispense Number 3	W2	Dow Corning Sylgard 170 Fast Cure Silicone Elastomer Parts A	8.10	4.9	negl*	0.405	0.050	438	negl*	negl*	negl*	negl*	0	0	100%
Adhesive, Sealant, and Glue Operation	DIG Workcell	Endcap Dispense Number 3	W2	Dow Corning Sylgard 170 Fast Cure Silicone Elastomer Parts B	11.10	5.2	0.075	0.443	0.040	350	negl*	negl*	negl*	negl*	0	0	100%
Adhesive, Sealant, and Glue Operation	DIG Workcell	Gasket Adhesion Unit #1 & #2 (same unit, capable of using 2 different materials)	W4	Apollo Z-396 (Cyanoacrylate Adhesive)	8.85	0	0.167	0.083	0.0094	82	0.019	0.002	14	0.007	0	0	100%
Adhesive, Sealant, and Glue Operation	Express Line	Gasket Adhesion Unit #1 & #2 (same unit, capable of using 2 different materials)	W4	Dow Corning 748 Non-Corrosive Sealant	11.18	8.4	0.425	1.19	0.11	932	0.038	0.045	396	0.198	0	0	100%
Adhesive, Sealant, and Glue Operation	Express Line	Urethane Dispense Station Number 1	L8-1	Isocyanate (MDI)	10.16	0	negl**	154.2	15.2	132,952	negl**	negl**	negl**	negl**	0	0	100%
Adhesive, Sealant, and Glue Operation	Express Line	Urethane Dispense Station Number 1	L8-1	Polyols	8.66	0	negl**	171.5	19.8	173,480	negl**	negl**	negl**	negl**	0	0	100%
Adhesive, Sealant, and Glue Operation	Express Line	Urethane Dispense Station Number 2	L8-2	Isocyanate (MDI)	10.16	0	negl**	154.2	15.2	132,952	negl**	negl**	negl**	negl**	0	0	100%
Adhesive, Sealant, and Glue Operation	Cateriller Line	Urethane Dispense Station Number 2	L8-2	Polyols	8.66	0	negl**	171.5	19.8	173,480	negl**	negl**	negl**	negl**	0	0	100%
Adhesive, Sealant, and Glue Operation	Cateriller Line	Urethane Gasket Dispense Station	C2	Isocyanate (MDI)	10.16	0	negl**	1.40	0.14	1,206	negl**	negl**	negl**	negl**	0	0	100%
Adhesive, Sealant, and Glue Operation	Cateriller Line	Urethane Gasket Dispense Station	C2	Polyols	8.66	0	negl**	3.08	0.36	3,111	negl**	negl**	negl**	negl**	0	0	100%
Adhesive, Sealant, and Glue Operation	Cateriller Line	Urethane Dispense Station Number 1	C7-1	Isocyanate (MDI)	10.16	0	negl**	115.9	11.4	99,930	negl**	negl**	negl**	negl**	0	0	100%
Adhesive, Sealant, and Glue Operation	Cateriller Line	Urethane Dispense Station Number 1	C7-1	Polyols	8.66	0	negl**	135.6	15.7	137,166	negl**	negl**	negl**	negl**	0	0	100%
Adhesive, Sealant, and Glue Operation	Cateriller Line	Urethane Dispense Station Number 2	C7-2	Isocyanate (MDI)	10.16	0	negl**	115.9	11.4	99,930	negl**	negl**	negl**	negl**	0	0	100%
Adhesive, Sealant, and Glue Operation	Hoosier Line	Urethane Dispense Station Number 2	C7-2	Polyols	8.66	0	negl**	135.6	15.7	137,166	negl**	negl**	negl**	negl**	0	0	100%
Adhesive, Sealant, and Glue Operation	Hoosier Line	Urethane Dispense Station Number 1	H11-1	Isocyanate (MDI)	10.16	0	negl**	29.5	2.90	25,401	negl**	negl**	negl**	negl**	0	0	100%
Adhesive, Sealant, and Glue Operation	Hoosier Line	Urethane Dispense Station Number 1	H11-1	Polyols	8.66	0	negl**	27.0	3.12	27,342	negl**	negl**	negl**	negl**	0	0	100%
Adhesive, Sealant, and Glue Operation	Hoosier Line	Urethane Dispense Station Number 2	H11-2	Isocyanate (MDI)	10.16	0	negl**	29.5	2.90	25,401	negl**	negl**	negl**	negl**	0	0	100%
Adhesive, Sealant, and Glue Operation	Hybrid Line	Urethane Dispense Station Number 2	H11-2	Polyols	8.66	0	negl**	27.0	3.12	27,342	negl**	negl**	negl**	negl**	0	0	100%
Adhesive, Sealant, and Glue Operation	Hybrid Line	Urethane Dispense Station Number 1	D13-1	Isocyanate (MDI)	10.16	0	negl**	115.9	11.4	99,930	negl**	negl**	negl**	negl**	0	0	100%
Adhesive, Sealant, and Glue Operation	Hybrid Line	Urethane Dispense Station Number 1	D13-1	Polyols	8.66	0	negl**	135.6	15.7	137,166	negl**	negl**	negl**	negl**	0	0	100%
Adhesive, Sealant, and Glue Operation	Hybrid Line	Urethane Dispense Station Number 2	D13-2	Isocyanate (MDI)	10.16	0	negl**	115.9	11.4	99,930	negl**	negl**	negl**	negl**	0	0	100%
Adhesive, Sealant, and Glue Operation	Bulk Isocyanate/ Polyol Storage	Urethane Dispense Station Number 2	D13-2	Polyols	8.66	0	negl**	135.6	15.7	137,166	negl**	negl**	negl**	negl**	0	0	100%
Adhesive, Sealant, and Glue Operation	Bulk Isocyanate/ Polyol Storage	10,000-gallon Storage Tank for Isocyanate	B1	BASF I-3050 Disocyanate (MDI)	10.16	0	negl***	832.3	81.9	717,629	negl***	negl***	negl***	negl***	0	0	100%
Adhesive, Sealant, and Glue Operation	Power Core Line	10,000-gallon Storage Tank for Polyol	B2	BASF Elastofam 36070R Polyol	8.66	0	negl***	942.5	108.8	953,419	negl***	negl***	negl***	negl***	0	0	100%
Adhesive, Sealant, and Glue Operation		Filter Element Elastomeric Rubber Beading Unit	P17	Loctite Terostat MS 939 Black Elastomeric Rubber	12.1	0	0.0377	160.0	13.2	115,835	0.003	0.499	4,367	2.183	0	0	100%
<b>Totals</b>												<b>0.66</b>	<b>5,750</b>	<b>2.88</b>	<b>0</b>	<b>0</b>	

\*These emission units use flowcoating application.

\*\*\*negl = negligible. Due to the low vapor pressure of MDI of 1.3E-08 atm at 77oF, the emission of VOCs (MDI) from Storage Tanks B1 and B2 are minimal.

\*\*negl = negligible. During the flowcoating

\*\*negl = negligible. During the flowcoating

**Uncontrolled Potential to Emit Hazardous Air Pollutants (HAPs)**

Process	Line	Emission Unit Description	Emission Unit ID #	Material	Maximum Usage Rate lbs/hr	Xylene Content lb/lb	PTE Xylene tons/yr
Adhesive, Sealant, and Glue Operation	DIG Workcell	AST Plastisol Encap Dispense Number 1	W1	PolyOne 9496 Self-Adhereing Plastisol	1.05	0.0005	0.002
Adhesive, Sealant, and Glue Operation	DIG Workcell	AST Plastisol Encap Dispense Number 2	W1	PolyOne 9716 Gray Self-Adhereing Plastisol	3.25	0.0005	0.007
<b>Totals</b>							<b>0.009</b>

**METHODOLOGY**

Maximum Usage Rate (gal/hr) = [Maximum Usage Rate (lbs/hr)] / [Material Density (lbs/gal)]

Maximum Usage Rate (gal/yr) = [Maximum Usage Rate (gal/hr)] [8760 hrs/yr]

VOC fraction by weight = [VOC Content (lbs/gal)] / [Material Density (lbs/gal)]

PTE of VOC (lbs/hr) = [Maximum Usage (lbs/hr)] \* [VOC fraction by weight]

PTE of VOC (lbs/yr) = [PTE of VOC (lbs/hr)] \* [8760 hrs/yr]

PTE of VOC (tons/yr) = [PTE of VOC (lbs/yr)] \* [1 ton/2000 lbs]

PTE of PM/PM10 (lbs/hr) = [PM/PM10 Content (lbs/gal)] \* [Maximum Usage Rate (gal/hr)] \* [1 - Transfer effici

PTE of PM/PM10 (tons/yr) = [PTE of PM/PM10 (lbs/hr)] \* [8760 hrs/yr] \* [1 ton/2000 lbs]

HAPS emission rate (tons/yr) = [Maximum Usage (lb/hr)] \* [Weight % HAP] \* [8760 hours/yr] \* [1 ton/2000 lbs]

**Appendix A: Emissions Calculations  
Cleaning Solvents, Cleaning Systems, and Parts Washers**

Company Name: Donaldson Company, Inc.  
Address City IN Zip: 3260 W. State Road 28, Frankfort, Indiana 46041  
AA No.: 023-33367-00024  
Reviewer: Anh Nguyen  
Date: 6/30/13

Uncontrolled Potential to Emit Volatile Organic Compounds (VOC) and Particulate Matter (PM)																	
Process	Line	Emission Unit Description	Emission Unit ID #	Material	Material Density lbs/gal	PM/PM10 Content lbs/gal	VOC Content lbs/gal	Maximum Usage Rate lbs/hr	Maximum Usage Rate gal/hr	Maximum Usage Rate gal/yr	VOC fraction by Wgt.	PTE VOC lbs/hr	PTE VOC lbs/yr	PTE VOC tons/yr	PTE PM/PM10 lbs/hr	PTE PM/PM10 tons/yr	Transfer Efficiency (%)
Cleaning Solvents, Cleaning Systems, and Parts Washers	Caterpillar Line	Urethane Parts Washer (Cold Cleaning Tank with 20-gallon max. capacity; 10-gallon working capacity)	C6	Dynasolve 180 (Non-Halogenated Cleaning Solvent)	8.57	0	8.57	0.943	0.11	963.91	1.0	0.94	8,261	4.13	0	0	100%
Cleaning Solvents, Cleaning Systems, and Parts Washers	Hoosier Line	Urethane Parts Washer (Cold Cleaning Tank with 20-gallon max. capacity; 10-gallon working capacity)	H2	Dynasolve 180 (Non-Halogenated Cleaning Solvent)	8.57	0	8.57	0.943	0.11	963.91	1.0	0.94	8,261	4.13	0	0	100%
Cleaning Solvents, Cleaning Systems, and Parts Washers	Hybrid Line	Urethane Parts Washer (Cold Cleaning Tank with 20-gallon max. capacity; 10-gallon working capacity)	D17	Dynasolve 180 (Non-Halogenated Cleaning Solvent)	8.57	0	8.57	0.943	0.11	963.91	1.0	0.94	8,261	4.13	0	0	100%
Cleaning Solvents, Cleaning Systems, and Parts Washers	Express Line	Urethane Parts Washer (Cold Cleaning Tank 20-gallon max. capacity; 10-gallon working capacity)	L7	Dynasolve 180 (Non-Halogenated Cleaning Solvent)	8.57	0	8.57	0.943	0.11	963.91	1.0	0.94	8,261	4.13	0	0	100%
Cleaning Solvents, Cleaning Systems, and Parts Washers	Maintenance	Parts Washer (Cold Cleaning Tank with 30-gallon max. capacity)	F1	Superior F-140 (Petroleum Solvent)	6.61	0	6.61	0.020	0.0030	26.51	1.0	0.020	175	0.09	0	0	100%
Cleaning Solvents, Cleaning Systems, and Parts Washers	Maintenance	Ultrasonic Parts Washer (Cold Cleaning Tank with 8.5-gallon max. capacity; 6-gallon working capacity)	F2	Dynasolve 180 (Non-Halogenated Cleaning Solvent)	8.57	0	8.57	0.236	0.028	241.23	1.0	0.24	2,067	1.03	0	0	100%
Cleaning Solvents, Cleaning Systems, and Parts Washers	Presses and Shears	Endcap Parts Washer	P1	Delta Clean (Liquid Detergent)	9.80	0	0	0.233	0.024	208.27	0	0	0	0	0	0	100%
Cleaning Solvents, Cleaning Systems, and Parts Washers	PowerCore Line	Urethane Parts Washer (Cold Cleaning Tank with 20-gallon max. capacity; 10-gallon working capacity)	P12	Dynasolve 180 (Non-Halogenated Cleaning Solvent)	8.57	0	8.57	0.943	0.110	963.91	1.0	0.94	8,261	4.13	0	0	100%

Totals	4.97	43,546	21.77	0	0
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Uncontrolled Potential to Emit Hazardous Air Pollutants (HAPs)							
Line	Emission Unit Description	Emission Unit ID #	Material	Maximum Usage Rate lbs/hr	Xylene Content lb/lb	PTE Xylene tons/yr	
Maintenance	Parts Washer (Cold Cleaning Tank with 30-gallon max. capacity)	F1	Superior F-140 (Petroleum Solvent)	0.02	0.01	8.8E-04	
Totals							

**METHODOLOGY**

Maximum Usage Rate (gal/hr) = [Maximum Usage Rate (lbs/hr)] / [Material Density (lbs/gal)]  
 Maximum Usage Rate (gal/yr) = [Maximum Usage Rate (gal/hr)] [8760 hrs/yr]  
 VOC fraction by weight = [VOC Content (lbs/gal)] / [Material Density (lbs/gal)]  
 PTE of VOC (lbs/hr) = [Maximum Usage (lbs/hr)] \* [VOC fraction by weight]  
 PTE of VOC (lbs/yr) = [PTE of VOC (lbs/hr)] \* [8760 hrs/yr]  
 PTE of VOC (tons/yr) = [PTE of VOC (lbs/yr)] \* [1 ton/2000 lbs]  
 PTE of PM/PM10 (lbs/hr) = [PM/PM10 Content (lbs/gal)] \* [Maximum Usage Rate (gal/hr)] \* [1 - Transfer efficiency]  
 PTE of PM/PM10 (tons/yr) = [PTE of PM/PM10 (lbs/hr)] \* [8760 hrs/yr] \* [1 ton/2000 lbs]

HAPS emission rate (tons/yr) = [Maximum Usage (lb/hr)] \* [Weight % HAP] \* [8760 hours/yr] \* [1 ton/2000 lbs]

Printing Operation  
Volatile Organic Comounds (VOC) and Particulate Matter (PM)

Company Name: Donaldson Company, Inc.  
Address City IN Zip: 3260 W. State Road 28, Frankfort, Indiana 46041  
AA No.: 023-33367-00024  
Reviewer: Anh Nguyen  
Date: 6/30/13

Uncontrolled Potential to Emit Volatile Organic Compounds (VOC) and Particulate Matter (PM)

Process	Line	Emission Unit Description	Emission Unit ID #	Material	Material Density lbs/gal	PM/PM10 Content lbs/gal	VOC Content lbs/gal	Maximum Usage Rate lbs/hr	Maximum Usage Rate gal/hr	Maximum Usage Rate gal/yr	VOC fraction by Wgt.	PTE VOC lbs/hr	PTE VOC lbs/yr	PTE VOC tons/yr	PTE PM/PM10 lbs/hr	PTE PM/PM10 tons/yr	Transfer Efficiency (%)*
Printing Operation	Express Line	Filter Element Endcap Pad Printing Unit	S1	Prismflex Ink Thinner	7.240	0	7.240	0.020	0.0028	24.2	1.000	0.020	175	0.088	0	0	95%
Printing Operation	Express Line	Filter Element Endcap Pad Printing Unit	S1	Prismflex Ink	10.825	4.5	3.670	0.020	0.0018	16.2	0.339	0.007	59	0.030	4.E-04	2.E-03	95%
Printing Operation	Express Line	Filter Element Endcap Inkjet Printing Unit	S1	Imaje Ink	7.226	0.87	6.150	0.010	0.0014	12.1	0.851	0.009	75	0.037	6.E-05	3.E-04	95%
Printing Operation	Express Line	Filter Element Endcap Inkjet Printing Unit	S1	PNK 303 Make Up (MEK)	6.720	0	6.720	0.042	0.0063	54.8	1.000	0.042	368	0.184	0	0	95%
Printing Operation	Express Line	Carton Printing Inkjet Unit	S1	Alpha Mark Ink	7.220	0	7.220	0.022	0.0030	26.7	1.000	0.022	193	0.096	0	0	95%
Printing Operation	Cateriller Line	Filter Element Endcap Pad Printing Unit	S1	Prismflex Ink Thinner	7.240	0	7.240	0.020	0.0028	24.2	1.00	0.020	175	0.088	0	0	95%
Printing Operation	Cateriller Line	Filter Element Endcap Pad Printing Unit	S1	Prismflex Ink	10.825	4.5	3.670	0.020	0.0018	16.2	0.339	0.007	59	0.030	4.E-04	2.E-03	95%
Printing Operation	Cateriller Line	Filter Element Endcap Inkjet Printing Unit	S1	Imaje Ink	7.226	0.87	6.150	0.010	0.0014	12.1	0.851	0.009	75	0.037	6.E-05	3.E-04	95%
Printing Operation	Cateriller Line	Filter Element Endcap Inkjet Printing Unit	S1	PNK 303 Make Up (MEK)	6.720	0	6.720	0.042	0.0063	54.8	1.00	0.042	368	0.184	0	0	95%
Printing Operation	Cateriller Line	Carton Printing Inkjet Unit	S1	Alpha Mark Ink	7.220	0	7.220	0.022	0.0030	26.7	1.000	0.022	193	0.096	0	0	95%
Printing Operation	Hoosier Line	Filter Element Endcap Inkjet Printing, 2 Units	S1	Imaje Ink (Black or Blue Ink)	7.226	0.87	6.150	0.010	0.0014	12.1	0.851	0.009	75	0.037	6.E-05	3.E-04	95%
Printing Operation	Hoosier Line	Filter Element Endcap Inkjet Printing, 2 Units	S1	PNK 303 Make Up (MEK)	6.720	0	6.720	0.042	0.0063	54.8	1.00	0.042	368	0.184	0	0	95%
Printing Operation	Hoosier Line	Carton Printing Inkjet Unit	S1	Alpha Mark Ink	7.220	0	7.220	0.022	0.0030	26.7	1.00	0.022	193	0.096	0	0	95%
Printing Operation	Hybrid Line	Filter Element Endcap Pad Printing Unit	S1	Prismflex Ink Thinner	7.240	0	7.240	0.020	0.0028	24.2	1.00	0.020	175	0.088	0	0	95%
Printing Operation	Hybrid Line	Filter Element Endcap Pad Printing Unit	S1	Prismflex Ink	10.825	4.5	3.670	0.020	0.0018	16.2	0.339	0.007	59	0.030	4.E-04	2.E-03	95%
Printing Operation	Hybrid Line	Filter Element Endcap Inkjet Printing Unit	S1	Imaje Ink	7.226	0.87	6.150	0.010	0.0014	12.1	0.851	0.009	75	0.037	6.E-05	3.E-04	95%
Printing Operation	Hybrid Line	Filter Element Endcap Inkjet Printing Unit	S1	PNK 303 Make Up (MEK)	6.720	0	6.720	0.042	0.0063	54.8	1.000	0.042	368	0.184	0	0	95%
Printing Operation	Hybrid Line	Carton Printing Inkjet Unit	S1	Alpha Mark Ink	7.220	0	7.220	0.022	0.0030	26.7	1.00	0.022	193	0.096	0	0	95%
Printing Operation	Presses and Shears	Prepaint Shear Liner Printing Unit (Ultra-Violet Light)	S1	Capex CAR 1005 Black Uv Ink	8.339	0	0.001	0.102	0.0122	107.1	0.0001	9.8E-06	0	0	0	0	95%
Printing Operation	Seal Clamp	Cardboard Packaging Inkjet Printing Unit	S1	Imaje Ink	7.226	0.87	6.150	0.010	0.0014	12.1	0.851	0.009	75	0.037	6.E-05	3.E-04	95%
Printing Operation	Seal Clamp	Cardboard Packaging Inkjet Printing Unit	S1	PNK 303 Make Up (MEK)	6.720	0	6.720	0.042	0.0063	54.8	1.00	0.042	368	0.184	0	0	95%
Printing Operation	DIG Workcell	Filter Element Endcap Inkjet Printing Unit	S1	Imaje Ink	7.226	0.87	6.150	0.010	0.0014	12.1	0.851	0.009	75	0.037	6.E-05	3.E-04	95%
Printing Operation	DIG Workcell	Filter Element Endcap Inkjet Printing Unit	S1	PNK 303 Make Up (MEK)	6.720	0	6.720	0.042	0.0063	54.8	1.00	0.042	368	0.184	0	0	95%
Printing Operation	DIG Workcell	Carton Printing Inkjet Unit	S1	Alpha Mark Ink	7.220	0	7.220	0.022	0.0030	26.7	1.00	0.022	193	0.096	0	0	95%
Printing Operation	DIG Workcell	Filter Element Endcap Inkjet Printing Unit	S1	Imaje Ink	6.245	0.75	6.150	0.010	0.0016	14.0	0.985	0.010	86	0.043	6.E-05	3.E-04	95%
Printing Operation	DIG Workcell	Filter Element Endcap Inkjet Printing Unit	S1	PNK 303 Make Up (MEK)	6.720	0	6.720	0.042	0.0063	54.8	1.00	0.042	368	0.184	0	0	95%

\*The Printing Units use ink jet, pad printing, or UV-cure screen printing methods.

<b>Totals</b>	<b>0.55</b>	<b>4,777</b>	<b>2,388</b>	<b>2.E-03</b>	<b>7.E-03</b>
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METHODOLOGY

Maximum Usage Rate (gal/hr) = [Maximum Usage Rate (lbs/hr)] / [Material Density (lbs/gal)]  
 Maximum Usage Rate (gal/yr) = [Maximum Usage Rate (gal/hr)] [8760 hrs/yr]  
 VOC fraction by weight = [VOC Content (lbs/gal)] / [Material Density (lbs/gal)]  
 PTE of VOC (lbs/hr) = [Maximum Usage (lbs/hr)] \* [VOC fraction by weight]  
 PTE of VOC (lbs/yr) = [PTE of VOC (lbs/hr)] \* [8760 hrs/yr]  
 PTE of VOC (tons/yr) = [PTE of VOC (lbs/yr)] \* [1 ton/2000 lbs]  
 PTE of PM/PM10 (lbs/hr) = [PM/PM10 Content (lbs/gal)] \* [Maximum Usage Rate (gal/hr)] \* [1 - Transfer efficiency]  
 PTE of PM/PM10 (tons/yr) = [PTE of PM/PM10 (lbs/hr)] \* [8760 hrs/yr] \* [1 ton/2000 lbs]

**Appendix A: Emissions Calculations  
Printing Operation  
Hazardous Air Pollutants (HAPs)**

**Company Name: Donaldson Company, Inc.  
Address City IN Zip: 3260 W. State Road 28, Frankfort, Indiana 46041  
AA No.: 023-33367-00024  
Reviewer: Anh Nguyen  
Date: 6/30/13**

**Uncontrolled Potential to Emit Hazardous Air Pollutants (HAPs)**

Process	Line	Emission Unit Description	Emission Unit ID #	Material	Maximum Usage Rate lbs/hr	Xylene Content lb/lb	PTE Xylene tons/yr	MIBK Content lb/lb	PTE MIBK tons/yr	IPB Content lb/lb	PTE IPB tons/yr	DBP Content lb/lb	PTE DBP tons/yr
Printing Operation	Express Line	Filter Element Endcap Pad Printing Unit	S1	Prismflex Ink Thinner	0.020	0.055	0.005	0.3	0.026	0.014	0.001		
Printing Operation	Express Line	Filter Element Endcap Pad Printing Unit	S1	Prismflex Ink	0.020	0.0038	0.000						
Printing Operation	Express Line	Filter Element Endcap Inkjet Printing Unit	S1	Imaje Ink	0.010							0.015	
Printing Operation	Cateriller Line	Filter Element Endcap Pad Printing Unit	S1	Prismflex Ink Thinner	0.020	0.055	0.005	0.3	0.026	0.014	0.001		
Printing Operation	Cateriller Line	Filter Element Endcap Pad Printing Unit	S1	Prismflex Ink	0.020	0.0038	0.000						
Printing Operation	Cateriller Line	Filter Element Endcap Inkjet Printing Unit	S1	Imaje Ink	0.010							0.015	
Printing Operation	Hoosier Line	Filter Element Endcap Inkjet Printing, 2 Units	S1	Imaje Ink (Black or Blue Ink)	0.010							0.015	6.57E-04
Printing Operation	Hybrid Line	Filter Element Endcap Pad Printing Unit	S1	Prismflex Ink Thinner	0.020	0.055	0.005	0.3	0.026	0.014	0.001		
Printing Operation	Hybrid Line	Filter Element Endcap Pad Printing Unit	S1	Prismflex Ink	0.020	0.0038	0.000						
Printing Operation	Hybrid Line	Filter Element Endcap Inkjet Printing Unit	S1	Imaje Ink	0.010							0.015	
Printing Operation	Seal Clamp	Cardboard Packaging Inkjet Printing Unit	S1	Imaje Ink	0.010							0.015	
Printing Operation	DIG Workcell	Filter Element Endcap Inkjet Printing Unit	S1	Imaje Ink	0.010							0.015	
Printing Operation	PowerCore Line	Filter Element Endcap Inkjet Printing Unit	S1	Imaje Ink	0.010							0.015	

<b>Totals</b>	<b>0.015</b>		<b>0.079</b>		<b>0.004</b>		<b>6.57E-04</b>
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**METHODOLOGY**

HAPS emission rate (tons/yr) = [Maximum Usage (lb/hr)] \* [Weight % HAP] \* [8760 hours/yr] \* [1 ton/2000 lbs]

**ACRONYMS**

MIBK = methyl isobutyl ketone  
IPB = isopropylbenzene  
DBP = dibutyl phthalate

**Appendix A: Emissions Calculations  
Insignificant Activities**

**Company Name: Donaldson Company, Inc.  
Address City IN Zip: 3260 W. State Road 28, Frankfort, Indiana 46041  
AA No.: 023-33367-00024  
Reviewer: Anh Nguyen  
Date: 6/30/13**

<b>Media Ink Marking</b>																	
Process	Line	Emission Unit Description	Emission Unit ID #	Material	Material Density lbs/gal	PM/PM10 Content lbs/gal	VOC Content lbs/gal	Maximum Usage Rate lbs/hr	Maximum Usage Rate gal/hr	Maximum Usage Rate gal/yr	VOC fraction by Wgt.	PTE VOC lbs/hr	PTE VOC lbs/yr	PTE VOC tons/yr	PM/PM10 lbs/hr	PM/PM10 tons/yr	Transfer Efficiency (%)*
Media Ink Marking	Express Line	Media Ink Marking Unit (pneumatic spray guns)	K1	Keyamine Black SP Liquid (Water Based Dye)	9.17	3.30	0.28	0.022	0.0024	21.0	0.030	6.6E-04	5.8	2.9E-03	2.8E-03	1.2E-02	65%
Media Ink Marking	Cateriller Line	Media Ink Marking Unit (pneumatic spray guns)	K1	Keyamine Black SP Liquid (Water Based Dye)	9.17	3.30	0.28	0.022	0.0024	21.0	0.030	6.6E-04	5.8	2.9E-03	2.8E-03	1.2E-02	65%
Media Ink Marking	Hoosier Line	Media Ink Marking Unit (pneumatic spray guns)	K1	Keyamine Black SP Liquid (Water Based Dye)	9.17	3.30	0.28	0.022	0.0024	21.0	0.030	6.6E-04	5.8	2.9E-03	2.8E-03	1.2E-02	65%
Media Ink Marking	Hybrid Line	Media Ink Marking Unit (pneumatic spray guns)	K1	Keyamine Black SP Liquid (Water Based Dye)	9.17	3.30	0.28	0.022	0.0024	21.0	0.030	6.6E-04	5.8	2.9E-03	2.8E-03	1.2E-02	65%
<b>Totals</b>												<b>2.6E-03</b>	<b>23.1</b>	<b>1.2E-02</b>	<b>1.1E-02</b>	<b>4.9E-02</b>	

\*The Media Ink Marking Units use pneumatic spray application

<b>Metal Working Equipment Lubrication</b>																	
Process	Line	Emission Unit Description	Emission Unit ID #	Material	Material Density lbs/gal	PM/PM10 Content lbs/gal	VOC Content lbs/gal	Maximum Usage Rate lbs/hr	Maximum Usage Rate gal/hr	Maximum Usage Rate gal/yr	VOC fraction by Wgt.	PTE VOC lbs/hr	PTE VOC lbs/yr	PTE VOC tons/yr	PM/PM10 lbs/hr*	PM/PM10 tons/yr	Transfer Efficiency (%)
Metal Working Equipment Lubrication	Presses and Shears	H-Clip Forming Unit	P2	MobilMet S-122 (Water Soluble Metal Lubricant)	7.447	0	7.447	0.012	0.0016	14.1	1.0	0.012	105.1	0	0	0	95%
Metal Working Equipment Lubrication	Presses and Shears	Expanded Metal Presses (2)	P3	Prodraw 67 (Metal Lubricant)	6.430	0	5.800	0.235	0.037	320.2	0.902	0.212	1856.9	0.928	0	0	95%
Metal Working Equipment Lubrication	Seal Clamp	Hole Punch Press	T1	Fremont 7064-1 (Water Soluble Process Lubricant with Rust Inhibitor)	8.920	0	0.88	0.038	0.0043	37.3	0.099	0.004	32.8	0.016	0	0	95%
Metal Working Equipment Lubrication	Seal Clamp	Automated Seal Clamp Assembly Unit	T2	Fremont 7064-1 (Water Soluble Process Lubricant with Rust Inhibitor)	8.920	0*	0.88	0.038	0.0043	37.3	0.099	0.004	32.8	0.016	1.4E-04	6.3E-04	95%
Metal Working Equipment Lubrication	Presses and Shears	200 Ton Punch Presses (2)	P6	Prodraw 67 (Metal Lubricant)	6.430	0	5.800	0.536	0.083	730.2	0.902	0.483	4235.3	2.12	0	0	95%
<b>Totals</b>												<b>0.71</b>	<b>6263</b>	<b>3.13</b>	<b>1.4E-04</b>	<b>6.3E-04</b>	

\*Emission unit T2 will have particulates from the welding process. Total weight of particulates accumulated per year is 1.26 pounds per year.

**METHODOLOGY**

Maximum Usage Rate (gal/hr) = [Maximum Usage Rate (lbs/hr)] / [Material Density (lbs/gal)]  
 Maximum Usage Rate (gal/yr) = [Maximum Usage Rate (gal/hr)] [8760 hrs/yr]  
 VOC fraction by weight = [VOC Content (lbs/gal)] / [Material Density (lbs/gal)]  
 PTE of VOC (lbs/hr) = [Maximum Usage (lbs/hr)] \* [VOC fraction by weight]  
 PTE of VOC (lbs/yr) = [PTE of VOC (lbs/hr)] \* [8760 hrs/yr]  
 PTE of VOC (tons/yr) = [PTE of VOC (lbs/yr)] \* [1 ton/2000 lbs]  
 PTE of PM/PM10 (lbs/hr) = [PM/PM10 Content (lbs/gal)] \* [Maximum Usage Rate (gal/hr)] \* [1 - Transfer efficiency]  
 PTE of PM/PM10 (tons/yr) = [PTE of PM/PM10 (lbs/hr)] \* [8760 hrs/yr] \* [1 ton/2000 lbs]

The materials used in Media Ink Marking and Metal Working Equipment Lubrication do not contain Hazardous Air Pollutants (HAPs)

**Appendix A: Emissions Calculations  
Insignificant Activities (continued)**

**Company Name: Donaldson Company, Inc.  
Address City IN Zip: 3260 W. State Road 28, Frankfort, Indiana 46041  
AA No.: 023-33367-00024  
Reviewer: Anh Nguyen  
Date: 6/30/13**

<b>Brazing, Cutting, Torches, Soldering, Welding</b>									
<b>Process</b>	<b>Line</b>	<b>Emission Unit Description</b>	<b>Emission Unit ID #</b>	<b>Material</b>	<b>PM/PM10 Emission Factor (lb/1000 lb)*</b>	<b>Maximum Steel Throuput per unit tons/year</b>	<b>Number of Units</b>	<b>PTE PM/PM10 lbs/hr</b>	<b>PTE PM/PM10 tons/yr</b>
Brazing, Cutting, Torches, Soldering, Welding	Express Line	Metal Liner Resistance Welders, 4 units	R1	Galvanized Expanded Metal (Steel)	0.05	12.6	4	5.8E-04	0.00253
Brazing, Cutting, Torches, Soldering, Welding	Cateriller Line	Metal Liner Resistance Welders, 2 units	R1	Galvanized Expanded Metal (Steel)	0.05	12.6	2	2.9E-04	0.00126
Brazing, Cutting, Torches, Soldering, Welding	Hoosier Line	Metal Liner Resistance Welders, 2 units	R1	Galvanized Expanded Metal (Steel)	0.05	12.6	2	2.9E-04	0.00126
Brazing, Cutting, Torches, Soldering, Welding	Hybrid Line	Metal Liner Resistance Welders, 2 units	R1	Galvanized Expanded Metal (Steel)	0.05	12.6	2	2.9E-04	0.00126
Brazing, Cutting, Torches, Soldering, Welding	Presses and Shears	Endcap Handle Resistance Welder	R1	Galvanized Metal Endcaps (Steel)	0.05	12.6	1	1.4E-04	0.00063
Brazing, Cutting, Torches, Soldering, Welding	Seal Clamp	Off-line Seal Clamp Twin Resistance Welder	R1	Steel	0.05	12.6	1	1.4E-04	0.00063
<b>Totals</b>								<b>1.7E-03</b>	<b>7.6E-03</b>

**METHODOLOGY**

\*AP-42 Section 12.19 does not contain emission factors for resistance welding or arc welding that does not use a consumable electrode. On page 2-23 of the background report for AP-42 Section 12.19, the following statement is included "Only electric arc welding generates pollutants in quantities of major concern. Resistance welding using certain materials also may generate hazardous pollutants. Due to the lower temperatures of the other welding processes, fewer fumes are released." Therefore, for this TSD, the emission factor for submerged arc welding will be used to estimate emissions of PM/PM10 from resistance welding.

$$\text{Maximum Steel Throuput per unit (tons/year)} = [\text{Volume of liner steel (in}^3\text{/liner)}] * [\text{ft}^3 / 12^3 \text{ in}^3] * [\text{Density of steel (lb/ft}^3)] * [\text{Maximum throughput of liners per year per unit}] * [\text{ton}/2000 \text{ lb}]$$

where:  
 Volume of liner steel (in3) = longest liner 19.16 inches \* 0.3 inches width of weld \* 0.028 inches maximum thickness of liners \* 0.27 due to mesh design  
 Density of steel = 495 lb/ft3  
 Maximum throughput of liners per year per unit = 2032320

$$\text{PTE of PM/PM10 (lbs/hr)} = [\text{PM/PM10 Emission Factor (lb/ton)}] * [\text{Maximum Steel Throuput per unit (tons/year)}] * [\text{year}/8760 \text{ hours}] * [\text{Number of Units}]$$

$$\text{PTE of PM/PM10 (tons/year)} = [\text{PTE of PM/PM10 (lbs/hr)}] * [\text{ton}/2000 \text{ lbs}] * [\text{year}/8760 \text{ hours/year}]$$

**Media Trimming (C9) control by Dust Collector (A1)**

Trimming of the cellulose and synthetic media has negligible emissions of PM/PM10 before and after controls (Dust Collector (A1)).

**Shrink Wrap Packaging Unit (T3)**

The Shanklin Shrinkwrap Packaging Unit (using a convection oven) on the Seal Clamp Line has negligible emissions of all regulated pollutants.

**Appendix A: Emissions Calculations**

**Natural Gas Combustion Only**

**MM BTU/HR <100**

**Company Name: Donaldson Company, Inc.**  
**Address City IN Zip: 3260 W. State Road 28, Frankfort, Indiana 46041**  
**AA No.: 023-33367-00024**  
**Reviewer: Anh Nguyen**  
**Date: 6/30/13**

Large Parts Washer P1 and Building heat

Pollutant		PM*	PM10*	SO2	NOx**	VOC	CO	
Emission Factor (lb/MMCF)		1.9	7.6	0.6	100	5.5	84.0	
Emission Unit	Combined Total Heat Input Capacity	Potential Throughput	Potential Emission					
	MMBtu/hr		MMCF/yr	tons/yr	PM*	PM10*	SO2	NOx**
Natural Gas Combustion	8.643	75.71	7.2E-02	0.288	2.3E-02	3.786	0.208	3.180
<b>Totals</b>	<b>8.64</b>		<b>7.2E-02</b>	<b>0.288</b>	<b>0.023</b>	<b>3.786</b>	<b>0.208</b>	<b>3.180</b>

Pollutant	Benzene	DCB	Formaldehyde	Hexane	Toluene	Pb	Cd	Cr	Mn	Ni
Emission Factor (lb/MMCF)	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Emission Unit	Potential Emission									
	tons/yr	Benzene	DCB	Formaldehyde	Hexane	Toluene	Pb	Cd	Cr	Mn
Natural Gas Combustion	7.9E-05	4.5E-05	2.8E-03	6.8E-02	1.3E-04	1.9E-05	4.2E-05	5.3E-05	1.4E-05	7.9E-05
<b>Totals</b>	<b>7.9E-05</b>	<b>4.5E-05</b>	<b>2.8E-03</b>	<b>6.8E-02</b>	<b>1.3E-04</b>	<b>1.9E-05</b>	<b>4.2E-05</b>	<b>5.3E-05</b>	<b>1.4E-05</b>	<b>7.9E-05</b>

\*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.

\*\*Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

The five highest organic and metal HAPs emission factors are provided above. Additional HAPs emission factors are available in AP-42, Chapter 1.4.

**Methodology**

Potential Throughput (MMCF) = Combined Total Heat Input Capacity (MMBtu/hr) \* 8,760 hrs/yr \* 1 MMCF/1,000 MMBtu

Emission (tons/yr) = Throughput (MMCF/yr) \* Emission Factor (lb/MMCF) / 2,000 lb/ton

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu, MMCF = 1,000,000 Cubic Feet of Gas

Appendix A: Emissions Calculations

Natural Gas Combustion Only

MM BTU/HR <100

Greenhouse Gas Emissions

Company Name: Donaldson Company, Inc.

Address City IN Zip: 3260 W. State Road 28, Frankfort, Indiana 46041

AA No.: 023-33367-00024

Reviewer: Anh Nguyen

Date: 6/30/13

	Greenhouse Gas		
	CO2	CH4	N2O
Emission Factor in lb/MMcf	120,000	2.3	2.2
Potential Emission in tons/yr	4,543	0	0
Summed Potential Emissions in tons/yr	4,543		
CO2e Total in tons/yr	4,570		

**Methodology**

The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.

Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.

Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310)

updated 7/11

**Appendix A: Emissions Calculations  
Filter Media Adhesive**

**Company Name: Donaldson Company, Inc.  
Address City IN Zip: 3260 W. State Road 28, Frankfort, Indiana 46041  
AA No.: 023-33367-00024  
Reviewer: Anh Nguyen  
Date: 6/30/13**

**Uncontrolled Potential to Emit Volatile Organic Compounds (VOC) and Particulate Matter (PM)**

Process	Line	Emission Unit Description	Emission Unit ID #	Material	Material Density lbs/gal	PM/PM10 Content lbs/gal	VOC Content lbs/gal	Maximum Usage Rate lbs/hr	Maximum Usage Rate gal/hr	Maximum Usage Rate gal/yr	VOC fraction by Wgt.	PTE VOC lbs/hr	PTE VOC lbs/yr	PTE VOC tons/yr	PTE PM/PM10 lbs/hr	PTE PM/PM10 tons/yr	Transfer Efficiency (%)*
Filer Media Adhesive	DIG Workcell	Filter Element Outer/Inner Liner Hot-Melt Beading Unit	W5	Accuseal Sil A 700 Siliconized Acrylic Sealant	13.200	9.89	0.158	4.66	0.35	3089.2	0.012	0.056	488.1	0.244	0	0	100%
Filer Media Adhesive	Express Line	Filter Element Outer/Inner Liner Hot-Melt Beading Unit	L9	H.B. Fuller.. HL-0842S (Hot-Melt Glue)	7.900	7.900	0	3.58	0.45	3971.9	0	0	0	0	0	0	100%
Filer Media Adhesive	Cateriller Line	Filter Element Outer/Inner Liner Hot-Melt Beading Unit	C8	H.B. Fuller.. HL-0842S (Hot-Melt Adhesive)	7.900	7.900	0	3.58	0.45	3971.9	0	0	0	0	0	0	100%
Filer Media Adhesive	Hoosier Line	Filter Element Outer/Inner Liner Polyamide Beading Unit	H12	Bostik HM 4276 (Hot-Melt Adhesive)	8.350	8.350	0	56.5	6.77	59293.1	0	0	0	0	0	0	100%
Filer Media Adhesive	Express Line	Media Seam Seal	L6	Van Grip 4-100 Adhesive (Media to Media Seam Seal Adhesive)	7.351	1.69	0	2.58	0.35	3078.1	0	0	0	0	0	0	100%
Filer Media Adhesive	Cateriller Line	Media Seam Seal	C5	Van Grip 4-100 Adhesive (Media to Media Seam Seal Adhesive) (Acetone)	7.351	1.69	0	2.58	0.35	3078.1	0	0	0	0	0	0	100%
Filer Media Adhesive	Hoosier Line	Media Seam Seal	H10	Van Grip 4-100 Adhesive (Media to Media Seam Seal Adhesive) (Acetone)	7.351	1.69	0	2.58	0.35	3078.1	0	0	0	0	0	0	100%
Filer Media Adhesive	Hybrid Line	Media Seam Seal	D9	Van Grip 4-100 Adhesive (Media to Media Seam Seal Adhesive) (Acetone)	7.351	1.69	0	2.58	0.35	3078.1	0	0	0	0	0	0	100%

\*These emission units use flowcoating application.

<b>Totals</b>	<b>0.06</b>	<b>488</b>	<b>0.24</b>	<b>0</b>	<b>0</b>
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**Uncontrolled Potential to Emit Hazardous Air Pollutants (HAPs)**

	Line	Emission Unit Description	Emission Unit ID #	Material	Maximum Usage Rate lbs/hr	EG Content lb/lb	PTE EG tons/yr
Filer Media Adhesive	DIG Workcell	Filter Element Outer/Inner Liner Hot-Melt Beading Unit	W5	Accuseal Sil A 700 Siliconized Acrylic Sealant	4.66	0.006	0.12
<b>Totals</b>						<b>0.12</b>	

**METHODOLOGY**

**METHODOLOGY**

Maximum Usage Rate (gal/hr) = [Maximum Usage Rate (lbs/hr)] / [Material Denisty (lbs/gal)]

Maximum Usage Rate (gal/yr) = [Maximum Usage Rate (gal/hr)] [8760 hrs/yr]

VOC fraction by weight = [VOC Content (lbs/gal)] / [Material Denisty (lbs/gal)]

PTE of VOC (lbs/hr) = [Maximum Usage (lbs/hr)] \* [VOC fraction by weight]

PTE of VOC (lbs/yr) = [PTE of VOC (lbs/hr)] \* [8760 hrs/yr]

PTE of VOC (tons/yr) = [PTE of VOC (lbs/yr)] \* [1 ton/2000 lbs]

PTE of PM/PM10 (lbs/hr) = [PM/PM10 Content (lbs/gal)] \* [Maximum Usage Rate (gal/hr)] \* [1 - Transfer efficiency]

PTE of PM/PM10 (tons/yr) = [PTE of PM/PM10 (lbs/hr)] \* [8760 hrs/yr] \* [1 ton/2000 lbs]

HAPS emission rate (tons/yr) = [Maximum Usage (lb/hr)] \* [Weight % HAP] \* [8760 hours/yr] \* [1 ton/2000 lbs]

**ACRONYMS**

EG = Ethylene Glycol



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

100 N. Senate Avenue • Indianapolis, IN 46204  
(800) 451-6027 • (317) 232-8603 • [www.idem.IN.gov](http://www.idem.IN.gov)

**Michael R. Pence**  
*Governor*

**Thomas W. Easterly**  
*Commissioner*

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

TO: William Roberts  
Donaldson Company, Inc.  
3260 W SR 28  
Frankfort, IN 46041

DATE: August 15, 2013

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

SUBJECT: Final Decision  
Administrative Amendment  
023-33367-00024

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:  
Kevin Brinson – Plant Manager  
OAQ Permits Branch Interested Parties List

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178, or toll-free at 1-800-451-6027 (ext. 3-0178), and ask to speak to the permit reviewer who prepared the permit. If you think you have received this document in error, please contact Joanne Smiddie-Brush of my staff at 1-800-451-6027 (ext 3-0185), or via e-mail at [jbrush@idem.IN.gov](mailto:jbrush@idem.IN.gov).

Final Applicant Cover letter.dot 6/13/2013

# Mail Code 61-53

IDEM Staff	GHOTOPP 8/15/2013 Donaldson Company, Inc 023-33367-00024 Final		<b>CERTIFICATE OF MAILING ONLY</b>	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender	▶	Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204		

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee Remarks
1		William Roberts Donaldson Company, Inc 3260 W SR 28 Frankfort IN 46041-8777 (Source CAATS) via confirmed delivery									
2		Kevin Brinson Plant Mgr Donaldson Company, Inc 3260 W SR 28 Frankfort IN 46041-8777 (RO CAATS)									
3		Frankfort City Council and Mayors Office 301 E. Clinton Street Frankfort IN 46041 (Local Official)									
4		Clinton County Health Department 400 E Clinton Street Frankfort IN 46041 (Health Department)									
5		Clinton County Board of Commissioners 125 Courthouse Square Frankfort IN 46041-1942 (Local Official)									
6		Mr. Robert Kelley 2555 S 30th Street Lafayette IN 44909 (Affected Party)									
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10											
11											
12											
13											
14											
15											

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See <b>Domestic Mail Manual R900, S913, and S921</b> for limitations of coverage on inured and COD mail. See <b>International Mail Manual</b> for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
<b>5</b>			