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

Eric J. Holcomb
Governor

Bruno L. Pigott
Commissioner

NOTICE OF 30 DAY PERIOD
FOR PUBLIC COMMENT

Preliminary Findings Regarding a
Significant Modification to a
Part 70 Operating Permit

for Donaldson company, Inc. in ClintonCounty

Significant Source Modification No.: 023-40281-00024
Significant Permit Modification No.: 023-40308-00024

The Indiana Department of Environmental Management (IDEM) has received an application from Donaldson Company, Inc., located at 3260 West State Road 28, Frankfort, IN 46041, for a significant modification of its Part 70 Operating Permit issued on December 13, 2017. If approved by IDEM's Office of Air Quality (OAQ), this proposed modification would allow Donaldson company, Inc. to make certain changes at its existing source. Company Name has applied for the construction of two additional filter media processing lines (Radial Seal Line 9 and Power Core Line 12), the change of the description of the diesel-fired internal combustion engine to be treated as an emergency generator, and the removal of a duplicate unit from the insignificant activities section.

The applicant intends to construct and operate new equipment that will emit air pollutants; therefore, the permit contains new or different permit conditions. In addition, some conditions from previously issued permits/approvals have been corrected, changed, or removed. These corrections, changes, and removals may include Title I changes (e.g. changes that add or modify synthetic minor emission limits). IDEM has reviewed this application and has developed preliminary findings, consisting of a draft permit and several supporting documents, which would allow the applicant to make this change.

A copy of the permit application and IDEM's preliminary findings are available at:

Frankfort Community/Clinton County Contractual Library
208 West Clinton Street
Frankfort, IN 46041

A copy of the preliminary findings is available on the Internet at: http://www.in.gov/ai/appfiles/idem-caats/.

A copy of the preliminary findings is also available via IDEM's Virtual File Cabinet (VFC.) Please go to: http://www.in.gov/idem/ and enter VFC in the search box. You will then have the option to search for permit documents using a variety of criteria.

How can you participate in this process?

The date that this notice is published in a newspaper marks the beginning of a 30-day public comment period. If the 30th day of the comment period falls on a day when IDEM offices are closed for business, all comments must be postmarked or delivered in person on the next business day that IDEM is open.

You may request that IDEM hold a public hearing about this draft permit. If adverse comments concerning the **air pollution impact** of this draft permit are received, with a request for a public hearing,

IDEM will decide whether or not to hold a public hearing. IDEM could also decide to hold a public meeting instead of, or in addition to, a public hearing. If a public hearing or meeting is held, IDEM will make a separate announcement of the date, time, and location of that hearing or meeting. At a hearing, you would have an opportunity to submit written comments and make verbal comments. At a meeting, you would have an opportunity to submit written comments, ask questions, and discuss any air pollution concerns with IDEM staff.

Comments and supporting documentation, or a request for a public hearing should be sent in writing to IDEM at the address below. If you comment via e-mail, please include your full U.S. mailing address so that you can be added to IDEM's mailing list to receive notice of future action related to this permit. If you do not want to comment at this time, but would like to receive notice of future action related to this permit application, please contact IDEM at the address below. Please refer to permit number SSM 023-40281-00024 and SPM 023-40308-00024 in all correspondence.

Comments should be sent to:

Ghassan Shalabi
IDEM, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
(800) 451-6027, ask for Ghassan Shalabi or (317) 233-7622
Or dial directly: (317) 233-7622
Fax: (317) 232-6749 attn: Ghassan Shalabi
E-mail: gshalabi@idem.IN.gov

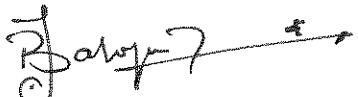
All comments will be considered by IDEM when we make a decision to issue or deny the permit. Comments that are most likely to affect final permit decisions are those based on the rules and laws governing this permitting process (326 IAC 2), air quality issues, and technical issues. IDEM does not have legal authority to regulate zoning, odor, or noise. For such issues, please contact your local officials.

For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Air Permits page on the Internet at: http://www.in.gov/idem/airquality/2356.htm; and the Citizens' Guide to IDEM on the Internet at: http://www.in.gov/idem/6900.htm..

What will happen after IDEM makes a decision?

Following the end of the public comment period, IDEM will issue a Notice of Decision stating whether the permit has been issued or denied. If the permit is issued, it may be different than the draft permit because of comments that were received during the public comment period. If comments are received during the public notice period, the final decision will include a document that summarizes the comments and IDEM's response to those comments. If you have submitted comments or have asked to be added to the mailing list, you will receive a Notice of the Decision. The notice will provide details on how you may appeal IDEM's decision, if you disagree with that decision. The final decision will also be available on the Internet at the address indicated above, at the local library indicated above, and the IDEM public file room on the 12th floor of the Indiana Government Center North, 100 N. Senate Avenue, Indianapolis, Indiana 46204-2251.

If you have any questions, please contact Ghassan Shalabi of my staff at the above address.



Josiah K. Balogun, Section Chief
Permits Branch
Office of Air Quality

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Commissioner

DRAFT

Mr. Bruce Crenshaw
Donaldson Company, Inc
3260 West State Route 28
Frankfort, IN 46041

Re: 023-40308-00024
Significant Permit Modification

Dear Mr. Crenshaw:

Donaldson Company, Inc was issued Part 70 Operating Permit Renewal No. T023-38096-00024 on December 13, 2017 for a stationary air filter manufacturing plant located at 3260 West State Road 28, Frankfort, Indiana 46041. An application requesting changes to this permit was received on August 7, 2018. Pursuant to the provisions of 326 IAC 2-7-12, a Significant Permit Modification to this permit is hereby approved as described in the attached Technical Support Document.

Please find attached the entire Part 70 Operating Permit as modified. The permit references the below listed attachment(s). Since /these attachments have been provided in previously issued approvals for this source, IDEM OAQ has not included a copy of these attachments with this modification:

Attachment A -New Source Performance Standard for Standards of Performance for Stationary Compression Ingition Internal Combustion Engines NSPS 40 CFR Part 60, Subpart IIII
Attachment B- National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products NESHAP 40 CFR Part 63, Subpart MMMM
Attachment C- National Emission Standards for Hazardous Air Pollutants for Surface Coating of Plastic Parts and Products NESHAP 40 CFR Part 63, Subpart PPPP

Attachment D- National Emission Standards for Hazardous Air Pollutants (NESHAP) for National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines NESHAP 40 CFR Part 63, Subpart ZZZZ

Previously issued approvals for this source containing these attachments are available on the Internet at: http://www.in.gov/ai/appfiles/idem-caats/.

Previously issued approvals for this source are also available via IDEM's Virtual File Cabinet (VFC.) Please go to: http://www.in.gov/idem/ and enter VFC in the search box. You will then have the option to search for permit documents using a variety of criteria.

Federal rules under Title 40 of United States Code of Federal Regulations may also be found on the U.S. Government Printing Office's Electronic Code of Federal Regulations (eCFR) website, located on the Internet at: http://www.ecfr.gov/cgi-bin/text-idx?tpl=/ecfrbrowse/Title40/40tab_02.tpl.

A copy of the permit is available on the Internet at: http://www.in.gov/ai/appfiles/idem-caats/. A copy of the permit is also available via IDEM's Virtual File Cabinet (VFC.) Please go to: http://www.in.gov/idem/ and enter VFC in the search box. You will then have the option to search for permit documents using a variety of criteria. For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Air Permits page on the Internet at:

http://www.in.gov/idem/airquality/2356.htm; and the Citizens' Guide to IDEM on the Internet at: http://www.in.gov/idem/6900.htm.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5.

If you have any questions regarding this matter, please contact Ghassan Shalabi, Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251, or by telephone at (317) 233-7622 or (800) 451-6027, and dial (317) 233-7622.

Sincerely,

Josiah K. Balogun, Section Chief
Permits Branch
Office of Air Quality

Attachments: Modified Permit and Technical Support Document
cc: File - Clinton County
Clinton County Health Department
U.S. EPA, Region 5
Compliance and Enforcement Branch

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Eric J. Holcomb
Governor

DRAFT

Bruno L. Pigott
Commissioner

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.: T023-38096-00024 **Master Agency Interest ID.: 14703**	
Issued by: Josiah K. Balogun, Section Chief Permits Branch Office of Air Quality	Issuance Date: December 13, 2017 Expiration Date: December 13, 2022

First Significant Permit Modification No.: 023-40308-00024	
Issued by: Josiah K. Balogun, Section Chief Permits Branch Office of Air Quality	Issuance Date: Expiration Date: December 13, 2022

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Note: This equation shall be used to calculate the single HAPs (Formaldehyde) emissions from the Power Core filter media emission unit, identified as P7, the RadialSeal Line 9, identified as RS9 and the PowerCore Line, identified as PC12. 34

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Attachment C- National Emission Standards for Hazardous Air Pollutants for Surface Coating of Plastic Parts and Products NESHAP 40 CFR Part 63, Subpart PPPP

Attachment D- National Emission Standards for Hazardous Air Pollutants (NESHAP) for National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines NESHAP 40 CFR Part 63, Subpart ZZZZ

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)]

The Permittee owns and operates a 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 (Industrial and Commercial Machinery and Equipment, NEC)
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)]

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

(a) Seven (7) filter media processing operations consisting of the following:

(1) One Caterpillar filter media emission unit identified as C1, constructed in 1980, with a maximum capacity of 2,000 pounds of filter media per hour; associated equipment includes an electric infrared heater, electric pleat tip curing, electric media dry off oven, emissions are uncontrolled and exhaust through stack V1.

(2) One Hoosier Element filter media emission unit identified as H1, constructed in 1984, with a maximum capacity of 2,000 pounds of filter media per hour; associated equipment includes an electric infrared heater, electric pleat tip curing, electric media dry off oven, emissions are uncontrolled and exhaust through stack V2.

(3) One Hybrid filter media emission unit identified as D4, constructed in 1997, with a maximum capacity of 2,000 pounds of filter media per hour; associated equipment includes an electric infrared heater, electric pleat tip curing, electric media steaming unit, electric media dry off oven, emissions are uncontrolled and exhaust through stack V6.

(4) One Express filter media emission unit identified as L1, constructed in 1997, with a maximum capacity of 2,000 pounds of filter media per hour; associated equipment includes an electric infrared heater, electric pleat tip curing, electric media steaming unit, electric media dry off oven, emissions are uncontrolled and exhaust through stack V7.

(5) One Power Core filter media emission unit identified as P7, constructed in 2008, with a maximum capacity of 1,201 pounds of filter media per hour; associated equipment includes a three (3) element cure oven and an electric media dry off oven, emissions are uncontrolled and exhaust through stack V41.

(6) One (1) Radial Seal filter media emission unit, identified as RS9, approved in 2018 for construction, with a maximum capacity of 2,000 pounds of filter media per hour, associated equipment includes a three (3) element cure oven, electric media steaming unit and an electric media dry off oven, emissions are uncontrolled and exhaust through stack V21.

(7) One (1) Power Core filter media emission unit, identified as PC12, approved in 2018 for construction, with a maximum capacity of 1,201 pounds of filter media per hour, associated equipment includes a three (3) element cure oven and an electric media dry off oven, emissions are uncontrolled and exhaust through stack V20.

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

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

(a) one (1) Mold Release Operation, identified as M1, consisting of ten (10) mold release spray booths servicing several production lines, constructed in 1980 (modified in 2002) (2), 1992 (1), 1997 (2), 2006 (1), 2009 (1), and 2018 (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 10.19 pounds of mold release agent per hour, with emissions uncontrolled and exhausting to stack V41, V16, V5, V8,; associated equipment includes six (6) electric mold preheat ovens, constructed in 1995 (2), 1997 (2), and 2006 (2), with emissions uncontrolled;

[Under 40 CFR 63, Subpart PPPP, the mold release operation is considered an affected facility]

(b) one (1) polyurethane end cap and gasket molding process (emission unit P11),

(c) 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.

(d) Ten (10) Cleaning Operations consisting of the following:

(1) 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 40 CFR 63, Subpart PPPP, the cold cleaning system is considered an affected facility]

(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 40 CFR 63, Subpart MMMM, this cold cleaning system is considered an affected facility]

(3) 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 40 CFR 63, Subpart PPPP, this cold cleaning system is considered an affected facility]

(4) 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 40 CFR 63, Subpart PPPP, this cold cleaning system is considered an affected facility]

(5) 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.

(6) 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;

[Under 40 CFR 63, Subpart MMMM, this parts washer is considered an affected facility]

(7) 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;

(8) 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.

(9) One (1) urethane parts washer cold cleaning tank, identified as PC13, with a maximum capacity of twenty (20) gallons and a working capacity of ten (10) gallons, with emissions uncontrolled and exhausting to stack V20;

[Under 40 CFR 63, Subpart PPPP, this cold cleaning system is considered an affected facility]

(10) One (1) urethane parts washer cold cleaning tank, identified as RS11, with a maximum capacity of twenty (20) gallons and a working capacity of ten (10) gallons, with emissions uncontrolled and exhausting to stack V21.

[Under 40 CFR 63, Subpart PPPP, this cold cleaning system is considered an affected facility]

(e) cleaners and solvents characterized as follows:

(1) having a vapor pressure equal to or less than 2 kPa, 15 mm Hg, or 0.3 psi measured at 38°C (100°F), or;

(2) having a vapor pressure equal to or less than 0.7 kPa, 5mm Hg, or 0.1 psi measured at 20°C (68°F), the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months.

(f) One (1) internal combustion 4 stroke lean-burn engine, with maximum capacity of 118 hp/hr, identified as E1, using diesel fuel, running emergency fire pump for sprinkler system, constructed in 2016;

[Under 40 CFR 60, Subpart IIII, this unit is considered an affected facility]
[Under 40 CFR 63, Subpart ZZZZ, this unit is considered an affected facility]

(g) one (1) Printing Operation servicing all production lines, identified as S1, consisting of fourteen (14) printing units, constructed in 2000 (3) and 2012 (7), and 2018 (4), 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 emission uncontrolled and fugitive.

[Under 40 CFR 63, Subpart MMMM, the printing operation S1 is considered an affected facility]

[Under 40 CFR 63, Subpart PPPP, the printing operation S1 is considered an affected facility]

(h) Adhesive, Sealant and Glue Operations consisting of the following:

(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 (3), 2000(2), 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, with negligible emissions of volatile organic compounds, uncontrolled and exhausting to stack V41; 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) two (2) filter element sealant units, identified as emission unit W5, constructed in 2002, utilizing flowcoating application of sealant onto filter media at an overall maximum usage rate of 4.655 pounds of sealant per hour, with emissions uncontrolled and fugitive;

(8) Three adhesive stations associated with power core filter line, consisting of the following:

(A) one (1) adhesive dispensing unit, identified as emission unit P8, for single face media,

(B) one (1) adhesive dispensing unit, identified as emission unit P9 for stack left and stack right element,

(C) one (1) adhesive dispensing unit, identified as emission unit P10 for attaching end panels to media pack,

(9) one (1) Filter Element Elastomeric Rubber Beading Unit, identified as emission unit P17, with a maximum capacity of 160 pounds per hour, with emission fugitive.

(10) Two (2) adhesive dispensing stations associated with Radial Seal filter line RS9, identified as RS7, dispensing polyurethane adhesive components (diisocyanate and polyol) with a combined maximum capacity of 652 pounds per hour;

(11) One (1) Filter Element Elastomeric Rubber Beading Unit, identified as PC3, with a maximum capacity of 160 pounds per hour, with emissions uncontrolled; and

(12) Four (4) adhesive dispensing stations associated with Power Core filter line PC12, identified as PC5, PC6, PC11, and PC2, dispensing polyurethane adhesive components (diisocyanate and polyol) with a combined maximum capacity of 368 pounds per hour, with emissions uncontrolled.

[Under 40 CFR 63, Subpart MMMM, emission units B1, B2, H8, H9, H13, H11-1, H11-2, W1, W2, W3, and W4 are considered affected facilities.]

[Under 40 CFR 63, Subpart PPPP, emission units B1, B2, C2, C7-1, C7-2, D13-1, D13-2, L8-1, L8-2, RS7, PC3, PC5, PC6, PC11, and PC2 are considered affected facilities.]

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

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

(a) water based adhesives that are less than or equal to 5% by volume of VOCs excluding HAPs, consisting of the following:

(1) three (3) adhesive application units used for several production lines, identified as emission units C8, H12, and L9, constructed in 1995, 2000, and 1997, utilizing flow coating application of adhesive onto filter media at a combined maximum usage rate of 63.7 pounds of adhesive per hour, using non-VOC and non-HAP adhesive.

(2) media seam seal adhesive application used for all production lines, identified as emission units L6, C5, H10, and D9, utilizing flowcoating application of adhesive onto filter media at a combined maximum usage rate of 10.3 pounds of adhesive per hour with negligible emissions of volatile organic compounds, uncontrolled and fugitive;

(3) one (1) Filter Element Outer/Inner Liner Polyolefin Beading Unit, identified as emission unit D18, using non-VOC and non-HAP adhesive.

(4) one (1) SingleFacer PowerCore Media Polyamide Hot-Melt Beading Unit, identified as emission unit P20, using non-VOC and non-HAP adhesive.

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

(6) one (1) Filter Element Centerboard to Media Beading Unit, identified as emission unit P21, using non-VOC and non-HAP adhesive.

(7) one (1) Filter Element Fiber Side Panel to Media Beading Unit, identified as emission unit P22, using non-VOC and non-HAP adhesive.

(8) one (1) Filter Element Plastic Shell Panel to Media Beading Unit, identified as emission unit P23, using non-VOC and non-HAP adhesive.

(9) One (1) Filter Element Outer/Inner Liner Hot-Melt Beading Unit, identified as RS10, using non-VOC and non-HAP adhesive;

(10) One (1) Media Seam Seal Unit, identified as RS2, using non-VOC and non-HAP adhesive;

(11) Two (2) Single Facer Power Core Media Polyolefin Hot-Melt Beading Units, identified as PC1, using non-VOC and non-HAP adhesive;

(12) One (1) Filter Element Fiber Side Panel to Media Beading Unit and one (1) Filter Element Plastic Shell Panel to Media Beading Unit, identified as PC3, using non-VOC and non-HAP adhesive.

(b) one (1) resistance welding operation servicing all production lines, identified as emission unit R1, for fabricating metal liners, and end cap handles with emissions uncontrolled and fugitive;

(c) one (1) Media Oil Treatment Operation, identified as G1, consisting of two (2) media oil treatment units servicing several production lines, constructed in 1984 and 1992, utilizing roll coating application of treatment material on filter media, with a combined maximum usage rate of 6.258 pounds of oil per hour and 0.755 pounds of fire retardant per hour, with emissions uncontrolled and fugitive.

(d) metal working equipment, identified as emission units P2, P3, and P6, including presses, H-clip forming unit, and associated lubricant application.

(e) media ink marking, identified as emission unit K1.

(f) pleating and trimming operations servicing all production lines, identified as C9, with particulate emissions exhausting to a single dust collector, identified as emission unit A1, constructed in 1998, exhausting to stack V28;

(g) any operation using aqueous solutions containing less than 1% by weight of VOCs excluding HAPs;

(h) the following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment;

(i) heated adhesive storage tanks.

(j) vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids;

(k) application of oils, greases, lubricants or other nonvolatile materials applied as temporary protective coatings;

(l) closed loop heating and cooling systems;

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

(n) a laboratory as defined in 326 IAC 2-7-1(21)(G);

A.5 Part 70 Permit Applicability [326 IAC 2-7-2]

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

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

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

SECTION B GENERAL CONDITIONS

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

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

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

(a) This permit, T023-38096-00024, 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]

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

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

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

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

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

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

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

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

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

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

(a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.

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

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

(a) 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(35), 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(35).

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(35).

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(35).

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(35).

(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(35).

(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 T023-38096-00024 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(35).

(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(42). 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(35).

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]

(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(35).

(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)]

(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]

(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(37)) 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(35).

(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]

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]

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]

(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(35).

(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 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(35).

(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.7 Performance Testing [326 IAC 3-6]

(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(35).

(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(35).

(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.8 Compliance Requirements [326 IAC 2-1.1-11]

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

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

C.9 Compliance Monitoring [326 IAC 2-7-5(3)][326 IAC 2-7-6(1)][40 CFR 64][326 IAC 3-8]

(a) For new units:
Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units shall be implemented on and after the date of initial start-up.

(b) For existing units:
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 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, 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(35).

(c) For monitoring required by CAM, at all times, the Permittee shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.

(d) For monitoring required by CAM, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the Permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

C.10 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

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

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

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

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

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

C.12 Risk Management Plan [326 IAC 2-7-5(11)] [40 CFR 68]

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

C.13 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(35).

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

C.14 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(33) (“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(35).

C.15 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6]

(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, where applicable:
    (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, where applicable:
    (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.16 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11]

(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(35). 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.17 Compliance with 40 CFR 82 and 326 IAC 22-1

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

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(a) Seven (7) Filter media processing operations consisting of the following:

(1) One Caterpillar filter media emission unit identified as C1, constructed in 1980, with a maximum capacity of 2,000 pounds of filter media per hour; associated equipment includes an electric infrared heater, electric pleat tip curing, electric media dry off oven, emissions are uncontrolled and exhaust through stack V1.

(2) One Hoosier Element filter media emission unit identified as H1, constructed in 1984, with a maximum capacity of 2,000 pounds of filter media per hour; associated equipment includes an electric infrared heater, electric pleat tip curing, electric media dry off oven, emissions are uncontrolled and exhaust through stack V2.

(3) One Hybrid filter media emission unit identified as D4, constructed in 1997, with a maximum capacity of 2,000 pounds of filter media per hour; associated equipment includes an electric infrared heater, electric pleat tip curing, electric media steaming unit, electric media dry off oven, emissions are uncontrolled and exhaust through stack V6.

(4) One Express filter media emission unit identified as L1, constructed in 1997, with a maximum capacity of 2,000 pounds of filter media per hour; associated equipment includes an electric infrared heater, electric pleat tip curing, electric media steaming unit, electric media dry off oven, emissions are uncontrolled and exhaust through stack V7.

(5) One Power Core filter media emission unit identified as P7, constructed in 2008, with a maximum capacity of 1,201 pounds of filter media per hour; associated equipment includes a three (3) element cure oven and an electric media dry off oven, emissions are uncontrolled and exhaust through stack V41.

(6) One (1) Radial Seal filter media emission unit, identified as RS9, approved in 2018 for construction, with a maximum capacity of 2,000 pounds of filter media per hour, associated equipment includes a three (3) element cure oven, electric media steaming unit and an electric media dry off oven, emissions are uncontrolled and exhaust through stack V21.

(7) One (1) Power Core filter media emission unit, identified as PC12, approved in 2018 for construction, with a maximum capacity of 1,201 pounds of filter media per hour, associated equipment includes a three (3) element cure oven and an electric media dry off oven, emissions are uncontrolled and exhaust through stack V20.

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

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

D.1.1 Prevention of Significant Deterioration (PSD) Minor Limits [326 IAC 2-2]

In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable, the Permittee shall comply with the following:

The VOC inputs to these emission units, identified as C1, H1, D4, L1, P7, RS9 and PC12 shall

not exceed 165.82 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with the above limits in combination with potential VOC emissions from all other emission units at the source shall limit the source-wide VOC emissions to less than 250 tons per year and render the requirements of 326 IAC 2-2 (PSD) not applicable to this source.

D.1.2 Hazardous Air pollutants (HAPs) Minor Limit [326 IAC 2-4.1]

(a) In order to render the requirements of 326 IAC 2-4.1 (Major Source of Hazardous Air Pollutants (HAP)) not applicable, the permittee shall comply with the following limits:

The Power Core filter media emission unit, identified as P7, Formaldehyde emissions shall not exceed 9.9 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with this limit shall limit the potential to emit single HAP from Power Core filter media emission unit, identified as P7 to less than 10 tons per year and total HAPs to less than 25 tons per year and shall render the requirements of 326 IAC 2-4.1 not applicable to this emission unit.

(b) The RadialSeal Line 9, identified as RS9 and PowerCore Line, identified as PC12, Formaldehyde emissions shall not exceed 9.9 tons per twelve (12) consecutive month period, each, with compliance determined at the end of each month.

Compliance with these limits shall limit the potential to emit single HAP from RadialSeal Line 9, identified as RS9 and PowerCore Line, identified as PC12, to less than 10 tons per year and total HAPs to less than 25 tons per year and shall render the requirements of 326 IAC 2-4.1 not applicable to these emission units.

D.1.3 Volatile Organic Compound (VOC) Limit [326 IAC 8-1-6] [326 IAC 2-2]

In order to render the requirements of 326 IAC 8-1-6 (New Facilities; General Reduction Requirements) not applicable, the source shall comply with the following:

Emission Unit	VOC Limit (tons/12 consecutive month period)
C1	< 25
H1	< 25
D4	< 25
L1	< 25
P7	< 25
RS9	< 25
PC12	< 25

Compliance with these limits shall limit the potential to emit VOC emissions from the emission units, identified as C1, H1, D4, L1, P7, RS9, PC12 each to less than twenty-five (25) tons per year and shall render the requirements of 326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities) not applicable to these units.

D.1.4 Preventive Maintenance Plan [325 IAC 1-6-3]

A Preventive Maintenance Plan is required for these facilities and any control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition

Compliance Determination

D.1.5 Compliance Determination Calculations for VOCs and HAPs

(1) To determine the compliance status with the VOC emission limits listed in Conditions D.1.1 and D.1.3, the following equation shall be used:

VOC emissions (tons per month) = [(#$_H$ lbs/ month * EF_H) + (#$_L$ lbs/ month * EF_L)] * 1 ton / 2000 lbs

Where:

#$_H$ = pounds of high VOC filter media per month
EF_H = 0.005 pound VOC per pound high VOC filter media
#$_L$ = pounds of low VOC filter media per month
EF_L = 0.0015 pound VOC per pound low VOC filter media

Note: This equation shall be used to calculate VOCs emissions for each of these emission units: C1, H1, D4, L1, P7, RS9 and PC12

(2) To determine the compliance status with the Single HAP (Formaldehyde) emission limit listed in Condition D.1.2, the following equation shall be used:

HAP emissions (tons per month) = [(#$_H$ lbs/ month * EF_H) + (#$_L$ lbs/ month * EF_L)] * 1 ton / 2000 lbs

Where:

#$_H$ = pounds of high HAP filter media per month
EF_H = 0.005 pound HAP per pound high VOC filter media
#$_L$ = pounds of low HAP filter media per month
EF_L = 0.0015 pound HAP per pound low VOC filter media

Note: This equation shall be used to calculate the single HAPs (Formaldehyde) emissions from the Power Core filter media emission unit, identified as P7, the RadialSeal Line 9, identified as RS9 and the PowerCore Line, identified as PC12.

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

D.1.6 Record Keeping Requirement

(a) To document the compliance status with Conditions D.1.1, D 1.2 and D.1.3, the Permittee shall maintain records of the weight of the filter media used on a monthly basis, including purchase orders, invoices, and/or Electronic Material Transaction Records (i.e. Oracle) necessary to verify the amount of the filter media used. The records shall be complete and sufficient to establish compliance with the limitations established in Conditions D.1.1, D.1.2 and D.1.3.

(b) Section C- Record Keeping and Reporting Requirements of this permit contains the Permittee's obligation with the recordkeeping requirements required by this condition.

D.1.7 Reporting Requirement

A quarterly report of the information to document the compliance status with Conditions D.1.1, D.1.2 and D.1.3 shall be submitted using the reporting forms located at the end of this permit, or their equivalent, not later than thirty (30) days following the end of each calendar quarter. 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(35). Section C - General Reporting Requirements contains the Permittee's obligations with regard to the reporting required by this condition

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

Specifically Regulated Insignificant Activities:

(d) Ten (10) Cleaning Operations consisting of the following:

(1) 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 40 CFR 63, Subpart PPPP, the cold cleaning system is considered an affected facility]

(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 40 CFR 63, Subpart MMMM, this cold cleaning system is considered an affected facility]

(3) 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 40 CFR 63, Subpart PPPP, this cold cleaning system is considered an affected facility]

(4) 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 40 CFR 63, Subpart PPPP, this cold cleaning system is considered an affected facility]

(5) 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.

(6) 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;

[Under 40 CFR 63, Subpart MMMM, this parts washer is considered an affected facility]

(7) 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;

(8) 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.

(9) One (1) urethane parts washer cold cleaning tank, identified as PC13, with a maximum capacity of twenty (20) gallons and a working capacity of ten (10) gallons, with emissions uncontrolled and exhausting to stack V20;

[Under 40 CFR 63, Subpart MMMM, this cold cleaning system is considered an affected facility]

(10) One (1) urethane parts washer cold cleaning tank, identified as RS11, with a maximum capacity of twenty (20) gallons and a working capacity of ten (10) gallons, with emissions uncontrolled and exhausting to stack V21.

[Under 40 CFR 63, Subpart MMMM, this cold cleaning system is considered an affected facility]

(e) cleaners and solvents characterized as follows:

(1) having a vapor pressure equal to or less than 2 kPa, 15 mm Hg, or 0.3 psi measured at 38°C (100°F), or;

(2) having a vapor pressure equal to or less than 0.7 kPa, 5mm Hg, or 0.1 psi measured at 20°C (68°F), the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months.

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

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

D.2.1 Cold Cleaner Degreaser Control Equipment [326 IAC 8-3-2]

(a) Pursuant to 326 IAC 8-3-2(a) (Cold Cleaner Degreaser Control Equipment), the owner or operator of cleaning systems and parts washers, identified as C6, H2, F1, D17, L7, P12, F2, PC13, and RS11, shall ensure the following control equipment and operation 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(b) (Cold Cleaner Degreaser Control Equipment), the owner or operator of cleaning systems and parts washers, identified as D17, L7, P12, F2, PC13, and RS11, shall ensure the following additional control equipment and operation 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.2.2 Material Requirements for Cold Cleaner Degreasers [326 IAC 8-3-8]

Pursuant to 326 IAC 8-3-8 (Material Requirements for Cold Cleaner Degreasers), the Permittee shall not operate a cold cleaning degreaser with a solvent that has a VOC composite partial vapor pressure that exceeds one (1) millimeter of mercury (nineteen-thousandths (0,019) pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

D.2.3 Preventive Maintenance Plan [325 IAC 1-6-3]

A Preventive Maintenance Plan is required for these facilities and any control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition

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

D.2.4 Record Keeping Requirement

(a) To document the compliance status with D.2.2, the Permittee shall maintain the following records for each purchase of solvent used in the cold cleaner degreasing operations.

These records shall be retained on-site or accessible electronically for the most recent three (3) year period and shall be reasonably accessible for an additional two (2) year period.

(1) The name and address of the solvent supplier.

(2) The date of purchase (or invoice/bill date of contract servicer indicating service date).

(3) The type of solvent purchased.

(4) The total Volume of the solvent purchased.

(5) The true vapor pressure of the solvent measured in millimeters of mercury at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit.).

(b) Section C- Record Keeping and Reporting Requirements of this permit contains the Permittee's obligation with the recordkeeping requirements required by this condition.

SECTION E.1 NSPS

Emissions Unit Description:

Specifically Regulated Insignificant Activities:

(f) One (1) internal combustion 4 stroke lean-burn engine, with maximum capacity of 118 hp/hr, identified as E1, using diesel fuel, running emergency fire pump for sprinkler system, constructed in 2016;

[Under 40 CFR 60, Subpart IIII, this unit is considered an affected facility]
[Under 40 CFR 63, Subpart ZZZZ, this unit is considered an affected facility]

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

New Source Performance Standards (NSPS) Requirements [326 IAC 2-7-5(1)]

E.1.1 General Provisions Relating to New Source Performance Standards [326 IAC 12-1] [40 CFR Part 60, Subpart A]

(a) Pursuant to 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1, for the emission unit(s) listed above, except as otherwise specified in 40 CFR Part 60, Subpart IIII.

(b) Pursuant to 40 CFR 60.4, the Permittee shall submit all required notifications and reports to:

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

E.1.2 New Source Performance Standard for Standards of Performance for Stationary Compression Ingition Internal Combustion Engines NSPS [326 IAC 12] [40 CFR Part 60, Subpart IIII]

The Permittee shall comply with the following provisions of 40 CFR Part 60, Subpart IIII (included as Attachment A to the operating permit), which are incorporated by reference as 326 IAC 12, for the emission unit listed above:

(1) 40 CFR 60.4200(a)(2)(ii)
(2) 40 CFR 60.4205(c)
(3) 40 CFR 60.4206
(4) 40 CFR 60.4207
(5) 40 CFR 60.4208
(6) 40 CFR 60.4209
(7) 40 CFR 60.4211(a), (c), (f), and (g)(2)
(8) 40 CFR 60.4212
(9) 40 CFR 60.4214(b) and (c)(10)
(10) 40 CFR 60.4218
(11) 40 CFR 60.4219
(12) Table 3 to Subpart IIII
(13) Table 4 to Subpart IIII
(14) Table 5 to Subpart IIII
(15) Table 8 to Subpart IIII

SECTION E.2 NESHAP

Emissions Unit Description:

Specifically Regulated Insignificant activities:

(d) Eight (8) Cleaning Operations consisting of the following:

(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 40 CFR 63, Subpart MMMM, this cold cleaning system is considered an affected facility]

(6) 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;

[Under 40 CFR 63, Subpart MMMM, this parts washer is considered an affected facility]

(g) one (1) Printing Operation servicing all production lines, identified as S1, consisting of fourteen (14) printing units, constructed in 2000 (3) and 2012 (7), and 2018 (4), 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 emission uncontrolled and fugitive.

[Under 40 CFR 63, Subpart MMMM, the printing operation S1 is considered an affected facility]

[Under 40 CFR 63, Subpart PPPP, the printing operation S1 is considered an affected facility]

(h) Adhesive, Sealant and Glue Operations consisting of the following:

(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 (3), 2000(2), 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, with negligible emissions of volatile organic compounds, uncontrolled and exhausting to stack V41; 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) two (2) filter element sealant units, identified as emission unit W5, constructed in 2002, utilizing flowcoating application of sealant onto filter media at an overall maximum usage rate of 4.655 pounds of sealant per hour, with emissions uncontrolled and fugitive;

(8) Three adhesive stations associated with power core filter line, consisting of the following:

(A) one (1) adhesive dispensing unit, identified as emission unit P8, for single face media,

(B) one (1) adhesive dispensing unit, identified as emission unit P9 for stack left and stack right element,

(C) one (1) adhesive dispensing unit, identified as emission unit P10 for attaching end panels to media pack,

(9) one (1) Filter Element Elastomeric Rubber Beading Unit, identified as emission unit P17, with a maximum capacity of 160 pounds per hour, with emission fugitive.

[Under 40 CFR 63, Subpart MMMM, emission units B1, B2, H8, H9, H13, H11-1, H11-2, W1,

W2, W3, and W4 are considered affected facilities.]

[Under 40 CFR 63, Subpart PPPP, emission units B1, B2, C2, C7-1, C7-2, D13-1, D13-2, L8-1, L8-2 are considered affected facilities.]

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

National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements [326 IAC 2-7-5(1)]

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

(a) Pursuant to 40 CFR 63.1 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, for the emission unit(s) listed above, except as otherwise specified in 40 CFR Part 63, Subpart MMMM.

(b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports to:

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

E.2.2 National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products NESHAP [40 CFR Part 63, Subpart MMMM] [326 IAC 20-80]

The Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart MMMM (included as Attachment B to the operating permit), which are incorporated by reference as 326 IAC 20-80 for the emission unit(s) listed above:

(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 to Subpart MMMM
(24) Table 2 to Subpart MMMM
(25) Table 3 to Subpart MMMM
(26) Table 4 to Subpart MMMM
(27) Appendix A to Subpart MMMM

SECTION E.3 NESHAP

Emissions Unit Description:

Specifically Regulated Insignificant Activities:

(a) one (1) Mold Release Operation, identified as M1, consisting of ten (10) mold release spray booths servicing several production lines, constructed in 1980 (modified in 2002) (2), 1992 (1), 1997 (2), 2006 (1), and 2009 (1), and 2018 (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 10.19 pounds of mold release agent per hour, with emissions uncontrolled and exhausting to stack V41, V16, V5, V8,; associated equipment includes six (6) electric mold preheat ovens, constructed in 1995 (2), 1997 (2), and 2006 (2), with emissions uncontrolled;

[Under 40 CFR 63, Subpart PPPP, the mold release operation is considered an affected facility]

(d) Ten (10) Cleaning Operations consisting of the following:

(1) 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 40 CFR 63, Subpart PPPP, the cold cleaning system is considered an affected facility]

(3) 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 40 CFR 63, Subpart PPPP, this cold cleaning system is considered an affected facility]

(4) 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 40 CFR 63, Subpart PPPP, this cold cleaning system is considered an affected facility]

(11) One (1) urethane parts washer cold cleaning tank, identified as PC13, with a maximum capacity of twenty (20) gallons and a working capacity of ten (10) gallons, with emissions uncontrolled and exhausting to stack V20;

[Under 40 CFR 63, Subpart PPPP, this cold cleaning system is considered an affected facility]

(12) One (1) urethane parts washer cold cleaning tank, identified as RS11, with a maximum capacity of twenty (20) gallons and a working capacity of ten (10) gallons, with emissions uncontrolled and exhausting to stack V21.

[Under 40 CFR 63, Subpart PPPP, this cold cleaning system is considered an affected facility]

(g) one (1) Printing Operation servicing all production lines, identified as S1, consisting of fourteen (14) printing units, constructed in 2000 (3) and 2012 (7), and 2018 (4), 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 emission uncontrolled and fugitive.

[Under 40 CFR 63, Subpart MMMM, the printing operation S1 is considered an affected facility]

[Under 40 CFR 63, Subpart PPPP, the printing operation S1 is considered an affected facility]

(h) Adhesive, Sealant and Glue Operations consisting of the following:

(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 (3), 2000(2), 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, with negligible emissions of volatile organic compounds, uncontrolled and exhausting to stack V41; 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) two (2) filter element sealant units, identified as emission unit W5, constructed in 2002, utilizing flowcoating application of sealant onto filter media at an overall maximum usage rate of 4.655 pounds of sealant per hour, with emissions uncontrolled and fugitive;

(8) Three adhesive stations associated with power core filter line, consisting of the following:

(A) one (1) adhesive dispensing unit, identified as emission unit P8, for single face media,

(B) one (1) adhesive dispensing unit, identified as emission unit P9 for stack left and stack right element,

(C) one (1) adhesive dispensing unit, identified as emission unit P10 for attaching end panels to media pack,

(9) one (1) Filter Element Elastomeric Rubber Beading Unit, identified as emission unit P17, with a maximum capacity of 160 pounds per hour, with emission fugitive.

(10) Two (2) adhesive dispensing stations associated with Radial Seal filter line RS9, identified as RS7, dispensing polyurethane adhesive components (diisocyanate and polyol) with a combined maximum capacity of 652 pounds per hour;

(11) One (1) Filter Element Elastomeric Rubber Beading Unit, identified as PC3, with a maximum capacity of 160 pounds per hour, with emissions uncontrolled; and

(12) Four (4) adhesive dispensing stations associated with Power Core filter line PC12, identified as PC5, PC6, PC11, and PC2, dispensing polyurethane adhesive components (diisocyanate and polyol) with a combined maximum capacity of 368 pounds per hour, with emissions uncontrolled.

[Under 40 CFR 63, Subpart MMMM, emission units B1, B2, H8, H9, H13, H11-1, H11-2, W1, W2, W3, and W4 are considered affected facilities.]

[Under 40 CFR 63, Subpart PPPP, emission units B1, B2, C2, C7-1, C7-2, D13-1, D13-2, L8-1, L8-2, RS7, PC3, and PC5, PC6, PC11, and PC2 are considered affected facilities.]

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

National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements [326 IAC 2-7-5(1)]

E.3.1 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]

(a) Pursuant to 40 CFR 63.1 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, for the emission unit(s) listed above, except as otherwise specified in 40 CFR Part 63, Subpart PPPP.

(b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports to:

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

E.3.2 National Emission Standards for Hazardous Air Pollutants for Surface Coating of Plastic Parts and Products NESHAP [40 CFR Part 63, Subpart PPPP] [326 IAC 20-81]

The Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart PPPP (included as Attachment C to the operating permit), which are incorporated by reference as 326 IAC 20-81 for the emission unit(s) listed above:

(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 to Subpart PPPP
(24) Table 3 to Subpart PPPP
(25) Table 4 to Subpart PPPP
(26) Appendix A to Subpart PPPP

SECTION E.4 NESHAP

Emissions Unit Description:

Specifically Regulated Insignificant Activities:

(f) One (1) internal combustion 4 stroke lean-burn engine, with maximum capacity of 118 hp/hr, identified as E1, using diesel fuel, running emergency fire pump for sprinkler system, constructed in 2016;

[Under 40 CFR 60, Subpart IIII, this unit is considered an affected facility]
[Under 40 CFR 63, Subpart ZZZZ, this unit is considered an affected facility]

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

National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements [326 IAC 2-7-5(1)]

E.4.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants under 40 CFR Part 63 [326 IAC 20-1] [40 CFR Part 63, Subpart A]

(a) Pursuant to 40 CFR 63.1 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, for the emission unit(s) listed above, except as otherwise specified in 40 CFR Part 63, Subpart ZZZZ.

(b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports to:

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

E.4.2 National Emission STandards for Hazardous Air Pollutants (NESHAP) for National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines NESHAP [40 CFR Part 63, Subpart ZZZZ] [326 IAC 20-82]

The Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart ZZZZ (included as Attachment D to the operating permit), which are incorporated by reference as 326 IAC 20-82 for the emission units listed above:

(1) 40 CFR 63.6580
(2) 40 CFR 63.6585
(3) 40 CFR 63.6590(a)(2)(ii) and (c)(6)
(4) 40 CFR 63.6595(a)(5)
(5) 40 CFR 63.6665
(6) 40 CFR 63.6670
(7) 40 CFR 63.6675

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.: T023-38096-00024

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.: T023-38096-00024

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**) daytime 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_2, VOC, NO_X, CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by:_____

Title / Position: _____

Date:_____

Phone: _____

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

Part 70 Quarterly Report

Source Name: Donaldson Company, Inc
Source Address: 3260 West State Road 28, Frankfort, Indiana 46041
Part 70 Permit No.: T023-38096-00024
Facility: Emission units identified as C1, H1, D4, L1, P7, RS9 and PC12
Parameter: VOC Emissions
Limit: Less than 165.82 tons of VOCs per twelve (12) consecutive month period

QUARTER : _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	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 AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: Donaldson Company, Inc
Source Address: 3260 West State Road 28, Frankfort, Indiana 46041
Part 70 Permit No.: T023-38096-00024
Facility: The RadialSeal Line 9, identified as RS9
Parameter: Single HAP Emission (Formaldehyde)
Limit: less than 9.9 tons per twelve (12) consecutive month period

QUARTER : _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	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 AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: Donaldson Company, Inc
Source Address: 3260 West State Road 28, Frankfort, Indiana 46041
Part 70 Permit No.: T023-38096-00024
Facility: The PowerCore Line, identified as PC12
Parameter: Single HAP Emission (Formaldehyde)
Limit: less than 9.9 tons per twelve (12) consecutive month period

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	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 AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: Donaldson Company, Inc
Source Address: 3260 West State Road 28, Frankfort, Indiana 46041
Part 70 Permit No.: T023-38096-00024
Facility: The RadialSeal Line 9, identified as RS9
Parameter: VOC Emissions
Limit: less than 25 tons per twelve (12) consecutive month period.

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	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 AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: Donaldson Company, Inc
Source Address: 3260 West State Road 28, Frankfort, Indiana 46041
Part 70 Permit No.: T023-38096-00024
Facility: The PowerCore Line, identified as PC12
Parameter: VOC Emissions
Limit: less than 25 tons per twelve (12) consecutive month period.

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	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 AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: Donaldson Company, Inc
Source Address: 3260 West State Road 28, Frankfort, Indiana 46041
Part 70 Permit No.: T023-38096-00024
Facility: Power Core filter media emission unit identified as P7
Parameter: Single HAP Emission (Formaldehyde)
Limit: less than 9.9 tons per twelve (12) consecutive month period

QUARTER : _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	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 AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: Donaldson Company, Inc
Source Address: 3260 West State Road 28, Frankfort, Indiana 46041
Part 70 Permit No.: T023-38096-00024
Facility: Caterpillar filter media emission unit identified as C1
Parameter: VOC Emissions
Limit: less than 25 tons per twelve (12) consecutive month period.

QUARTER : _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	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 AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: Donaldson Company, Inc
Source Address: 3260 West State Road 28, Frankfort, Indiana 46041
Part 70 Permit No.: T023-38096-00024
Facility: Hoosier Element filter media emission unit identified as H1
Parameter: VOC Emissions
Limit: less than 25 tons per twelve (12) consecutive month period.

QUARTER : _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	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 AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: Donaldson Company, Inc
Source Address: 3260 West State Road 28, Frankfort, Indiana 46041
Part 70 Permit No.: T023-38096-00024
Facility: Hybrid filter media emission unit identified as D4
Parameter: VOC Emissions
Limit: less than 25 tons per twelve (12) consecutive month period.

QUARTER : _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	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 AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: Donaldson Company, Inc
Source Address: 3260 West State Road 28, Frankfort, Indiana 46041
Part 70 Permit No.: T023-38096-00024
Facility: Express filter media emission unit identified as L1
Parameter: VOC Emissions
Limit: less than 25 tons per twelve (12) consecutive month period.

QUARTER : _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	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 AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: Donaldson Company, Inc
Source Address: 3260 West State Road 28, Frankfort, Indiana 46041
Part 70 Permit No.: T023-38096-00024
Facility: Power Core filter media emission unit identified as P7
Parameter: VOC Emissions
Limit: less than 25 tons per twelve (12) consecutive month period.

QUARTER : _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	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 AND ENFORCEMENT BRANCH
PART 70 OPERATING PERMIT
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: Donaldson Company, Inc
Source Address: 3260 West State Road 28, Frankfort, Indiana 46041
Part 70 Permit No.: T023-38096-00024

Months: _____ to _____ Year: _____

This report shall be submitted quarterly based on a calendar year. Proper notice submittal under Section B –Emergency Provisions satisfies the reporting requirements of paragraph (a) of Section C-General Reporting. Any deviation from the requirements of this permit, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

□ NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

□ THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

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

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

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

Form Completed by:_____

Title / Position: _____

Date:_____

Phone: _____

Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document (TSD) for a Part 70 Significant Source Modification and Significant Permit Modification

Source Description and Location

Source Name:	**Donaldson Company, Inc**
Source Location:	**3260 West State Road 28, Frankfort, IN 46041**
County:	**Clinton County**
SIC Code:	**3599 (Industrial and Commercial Machinery and Equipment, Not Elsewhere Classified)**
Operation Permit No.:	**T023-38096-00024**
Operation Permit Issuance Date:	**December 13, 2017**
Significant Source Modification No.:	**023-40281-00024**
Significant Permit Modification No.:	**023-40308-00024**
Permit Reviewer:	**Ghassan Shalabi**

Existing Approvals

The source was issued Part 70 Operating Permit Renewal No. 023-38096-00024 on December 13, 0017. There have been no subsequent approvals issued.

County Attainment Status

The source is located in Clinton County.

Pollutant	Designation
SO_2	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O_3	Unclassifiable or attainment effective July 20, 2012, for the 2008 8-hour ozone standard.[1]
$PM_{2.5}$	Unclassifiable or attainment effective April 5, 2005, for the annual $PM_{2.5}$ standard.
$PM_{2.5}$	Unclassifiable or attainment effective December 13, 2009, for the 24-hour $PM_{2.5}$ standard.
PM_{10}	Unclassifiable effective November 15, 1990.
NO_2	Cannot be classified or better than national standards.
Pb	Unclassifiable or attainment effective December 31, 2011.
[1]Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005.	

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

(b) $PM_{2.5}$
Clinton County has been classified as attainment for $PM_{2.5}$. Therefore, direct $PM_{2.5}$, SO_2, and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(c) Other Criteria Pollutants
Clinton County has been classified as attainment or unclassifiable in Indiana for all other criteria pollutants.. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Fugitive Emissions

Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-7, and there is no applicable New Source Performance Standard that was in effect on August 7, 1980, fugitive emissions are not counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

Greenhouse Gas (GHG) Emissions

On June 23, 2014, in the case of *Utility Air Regulatory Group v. EPA*, cause no. 12-1146, (available at http://www.supremecourt.gov/opinions/13pdf/12-1146_4g18.pdf) the United States Supreme Court ruled that the U.S. EPA does not have the authority to treat greenhouse gases (GHGs) as an air pollutant for the purpose of determining operating permit applicability or PSD Major source status. On July 24, 2014, the U.S. EPA issued a memorandum to the Regional Administrators outlining next steps in permitting decisions in light of the Supreme Court's decision. U.S. EPA's guidance states that U.S. EPA will no longer require PSD or Title V permits for sources "previously classified as 'Major' based solely on greenhouse gas emissions."

The Indiana Environmental Rules Board adopted the GHG regulations required by U.S. EPA at 326 IAC 2-2-1(zz), pursuant to Ind. Code § 13-14-9-8(h) (Section 8 rulemaking). A rule, or part of a rule, adopted under Section 8 is automatically invalidated when the corresponding federal rule, or part of the rule, is invalidated. Due to the United States Supreme Court Ruling, IDEM, OAQ cannot consider GHG emissions to determine operating permit applicability or PSD applicability to a source or modification.

Source Status - Existing Source

The table below summarizes the potential to emit of the entire source, prior to the proposed modification, after consideration of all enforceable limits established in the effective permits:

	Source-Wide Emissions Before Modification (ton/year)								
Process / Emission Unit	**PM**	**PM_{10}**	**$PM_{2.5}$**	**SO_2**	**NO_X**	**VOC**	**CO**	**Single HAP[1] (Formaldehyde)**	**Combined HAPs**
Total for Source	6.20	6.20	6.20	1.06	16.02	185.51	3.45	109.50	109.66
PSD Major Source Thresholds	250	250	250	250	250	250	250	--	--

[1]Single highest source-wide HAP.

(a) This existing source is not a major stationary source, under PSD (326 IAC 2-2), because no PSD regulated pollutant is emitted at a rate of two hundred fifty (250) tons per year or more and it is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(ff)(1).

(b) This existing source is a major source of HAPs, as defined in 40 CFR 63.2, because HAP emissions are equal to or greater than ten (10) tons per year for a single HAP and equal to or greater than twenty-five (25) tons per year for a combination of HAPs. Therefore, this source is a major source under Section 112 of the Clean Air Act (CAA).

(c) These emissions are based on the TSD of Part 70 Renewal No.: T023-38096-00024, issued on December 13, 2017

Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed an application, submitted by Donaldson Company, Inc. on Auguyst 7, 2018, relating to the construction of two additional filter media processing lines (Radial Seal Line 9 and Power Core Line 12), the change of the description of the diesel-fired internal combustion engine to be treated as an emergency generator, and the removal of a duplicate unit from the insignificant activities section. The following is a list of the proposed emission units and pollution control devices:

(a) One (1) Radial Seal filter media emission unit, identified as RS9, approved in 2018 for construction, with a maximum capacity of 2,000 pounds of filter media per hour, associated equipment includes a three (3) element cure oven, electric media steaming unit and an electric media dry off oven, emissions are uncontrolled and exhaust through stack V21;

(b) One (1) Power Core filter media emission unit, identified as PC12, approved in 2018 for construction, with a maximum capacity of 1,201 pounds of filter media per hour, associated equipment includes a three (3) element cure oven and an electric media dry off oven, emissions are uncontrolled and exhaust through stack V20;

New Specifically Regulated Insignificant Activities

(a) Three (3) mold release spray booths servicing RS9 and PC12, 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 3.2 pounds of mold release agent per hour, with emissions uncontrolled and exhausting to stack V20 and V21, associated equipment includes three (3) electric mold preheat ovens, with emissions uncontrolled;

(b) One (1) urethane parts washer cold cleaning tank, identified as PC13, with a maximum capacity of twenty (20) gallons and a working capacity of ten (10) gallons, with emissions uncontrolled and exhausting to stack V20;

(c) One (1) urethane parts washer cold cleaning tank, identified as RS11, with a maximum capacity of twenty (20) gallons and a working capacity of ten (10) gallons, with emissions uncontrolled and exhausting to stack V21;

(d) One (1) pad printing unit and three (3) inkjet printing units, coating paper, plastic, and metal, with a combined maximum usage rate of 0.2 pounds of printing inks and solvents per hour, with emissions uncontrolled;

(e) Two (2) adhesive dispensing stations associated with Radial Seal filter line RS9, identified as RS7, dispensing polyurethane adhesive components (diisocyanate and polyol) with a combined maximum capacity of 652 pounds per hour;

(f) One (1) Filter Element Elastomeric Rubber Beading Unit, identified as PC3, with a maximum capacity of 160 pounds per hour, with emissions uncontrolled; and

(g) Four (4) adhesive dispensing stations associated with Power Core filter line PC12, identified as PC5, PC6, PC11, and PC2, dispensing polyurethane adhesive components (diisocyanate and polyol) with a combined maximum capacity of 368 pounds per hour, with emissions uncontrolled.

New Insignificant Activities

(a) One (1) resistance welding operation servicing the Radial Seal filter media line, for fabricating metal liners, with emissions uncontrolled;

(b) One (1) Filter Element Outer/Inner Liner Hot-Melt Beading Unit, identified as RS10, using non-VOC and non-HAP adhesive;

(c) One (1) Media Seam Seal Unit, identified as RS2, using non-VOC and non-HAP adhesive;

(d) Two (2) Single Facer Power Core Media Polyolefin Hot-Melt Beading Units, identified as PC1, using non-VOC and non-HAP adhesive;

(e) One (1) Filter Element Plastic Shell Panel to Media Beading Unit, identified as PC2, using non-VOC and non-HAP adhesive;

(f) One (1) Filter Element Fiber Side Panel to Media Beading Unit and one (1) Filter Element Plastic Shell Panel to Media Beading Unit, identified as PC3, using non-HAP adhesive; and

(g) One (1) media ink marking unit

Enforcement Issues

There are no pending enforcement actions related to this modification.

Emission Calculations

See Appendix A of this Technical Support Document for detailed emission calculations.

Permit Level Determination – Part 70 Modification to an Existing Source

Pursuant to 326 IAC 2-1.1-1(12), Potential to Emit is defined as "the maximum capacity of a stationary source or emission unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA, IDEM, or the appropriate local air pollution control agency."

The following table is used to determine the appropriate permit level under 326 IAC 2-7-10.5 and 326 IAC 2-7-11. This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit. If the control equipment has been determined to be integral, the table reflects the PTE after consideration of the integral control device.

	PTE Before Controls of the New Emission Units (ton/year)								
Process / Emission Unit	**PM**	**PM_{10}**	**$PM_{2.5}$**	**SO_2**	**NO_X**	**VOC**	**CO**	**Single HAP (Formaldehyde)**	**Combined HAPs**
Media Ink Marking Unit (K1)	0.012	0.012	0.012	0.00	0.00	0.003	0.00	0.00	0.00
RadialSeal Line 9 (RS9)	0.00	0.00	0.00	0.00	0.00	43.8	0.00	43.8	43.8
PowerCore Line (PC12)	0.00	0.00	0.00	0.00	0.00	26.3	0.00	26.3	26.3
Mold Release (Redial Seal 9) (Unit 1)	0.00	0.00	0.00	0.00	0.00	4.26	0.00	0.00	0.00
Mold Release (Redial Seal 9) (Unit 2)	0.00	0.00	0.00	0.00	0.00	4.26	0.00	0.00	0.00
Mold Release (Power Core Line 12)	0.00	0.00	0.00	0.00	0.00	4.33	0.00	0.00	0.00
Parts Washer (RS11)	0.00	0.00	0.00	0.00	0.00	4.13	0.00	0.00	0.00
Parts Washer (PC13)	0.00	0.00	0.00	0.00	0.00	4.13	0.00	0.00	0.00
Printing Operation (Readial Seal Line 9) (Trans Tech Thinner)	0.00	0.00	0.00	0.00	0.00	0.088	0.00	0.00	0.00
Printing Operation (Readial Seal Line 9) (Trans Tech Ink)	0.002	0.002	0.002	0.00	0.00	0.06	0.00	0.00	0.00
Printing Operation (Readial Seal Line 9) (Hitachi Ink)	0.0003	0.0003	0.0003	0.00	0.00	0.036	0.00	0.00	0.00
Printing Operation (Readial Seal Line 9) (Hitachi Make-up (MEK))	0.00	0.00	0.00	0.00	0.00	0.184	0.00	0.00	0.00
Prinitng Operation (Power Core Line 12) (Hitachi Ink)	0.0005	0.0005	0.0005	0.00	0.00	0.072	0.00	0.00	0.00
Prinitng Operation (Power Core Line 12) (Hitachi Make-up (MEK))	0.00	0.00	0.00	0.00	0.00	0.368	0.00	0.00	0.00
Adhesive, Sealant, and Glue Operation (PC3)	0.00	0.00	0.00	0.00	0.00	2.183	0.00	0.00	0.00
Brazing, Cuting, Torches, Soldering, and Welding (Radial Seal Line 9)	0.0025	0.0025	0.0025	0.00	0.00	0.00	0.00	0.00	0.00
Total:	0.017	0.017	0.017	0.00	0.00	94.2	0.00	70.10	70.10

Appendix A of this TSD reflects the unrestricted potential emissions of the modification.

Pursuant to 326 IAC 2-7-10.5(g)(4), a Significant Source Modification is required because this modification has the potential to emit VOC at greater than or equal to twenty-five (25) tons per year.

Pursuant to 326 IAC 2-7-12(d)(1), this change to the permit is being made through a Significant Permit Modification because this modification does not qualify as a Minor Permit Modification or as an Administrative Amendment.

Permit Level Determination – PSD

The table below summarizes the potential to emit of the modification, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of the Part 70 source and permit modification, and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

	Project Emission (ton/year)								
Process / Emission Unit	**PM**	**PM_{10}**	**$PM_{2.5}$**	**SO_2**	**NO_X**	**VOC**	**CO**	**Single HAP** (Formaldehyde)	**Combined HAPs**
Media Ink Marking Unit (K1)	0.012	0.012	0.012	0.00	0.00	0.003	0.00	0.00	0.00
RadialSeal Line 9 (RS9)	0.00	0.00	0.00	0.00	0.00	24.90	0.00	9.9	9.9
PowerCore Line (PC12)	0.00	0.00	0.00	0.00	0.00	24.90	0.00	9.9	9.9
Mold Release (Redial Seal 9) (Unit 1)	0.00	0.00	0.00	0.00	0.00	4.26	0.00	0.00	0.00
Mold Release (Redial Seal 9) (Unit 2)	0.00	0.00	0.00	0.00	0.00	4.26	0.00	0.00	0.00
Mold Release (Power Core Line 12)	0.00	0.00	0.00	0.00	0.00	4.33	0.00	0.00	0.00
Parts Washer (RS11)	0.00	0.00	0.00	0.00	0.00	4.13	0.00	0.00	0.00
Parts Washer (PC13)	0.00	0.00	0.00	0.00	0.00	4.13	0.00	0.00	0.00
Printing Operation (Readial Seal Line 9) (Trans Tech Thinner)	0.00	0.00	0.00	0.00	0.00	0.088	0.00	0.00	0.00
Printing Operation (Readial Seal Line 9) (Trans Tech Ink)	0.002	0.002	0.002	0.00	0.00	0.06	0.00	0.00	0.00
Printing Operation (Readial Seal Line 9) (Hitachi Ink)	0.0003	0.0003	0.0003	0.00	0.00	0.036	0.00	0.00	0.00
Printing Operation (Readial Seal Line 9) (Hitachi Make-up (MEK))	0.00	0.00	0.00	0.00	0.00	0.184	0.00	0.00	0.00
Prinitng Operation (Power Core Line 12) (Hitachi Ink)	0.0005	0.0005	0.0005	0.00	0.00	0.072	0.00	0.00	0.00
Prinitng Operation (Power Core Line 12) (Hitachi Make-up (MEK))	0.00	0.00	0.00	0.00	0.00	0.368	0.00	0.00	0.00
Adhesive, Sealant, and Glue Operation (PC3)	0.00	0.00	0.00	0.00	0.00	2.183	0.00	0.00	0.00
Brazing, Cuting, Torches, Soldering, and Welding (Radial Seal Line 9)	0.0025	0.0025	0.0025	0.00	0.00	0.00	0.00	0.00	0.00
Total for Modification	0.017	0.017	0.017	0.00	0.00	73.9	0.00	19.8	19.8
PSD Major Source Thresholds	250	250	250	250	250	250	250	-	-

[1]$PM_{2.5}$ listed is direct $PM_{2.5}$.

This modification to an existing minor PSD stationary source is not major because the emissions increase of each PSD regulated pollutant is less than the PSD major source threshold. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

The table below summarizes the after issuance source-wide potential to emit, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of the Part 70 source and permit modification, and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

Process/ Emission Unit		Potential To Emit of the Entire Source After Issuance of Modification (tons/year)								
		PM	PM_{10}*	$PM_{2.5}$**	SO_2	NO_x	VOC	CO	Total HAPs	Worst Single HAP (Formaldehyde)
Filter Media Processing	C1	-	-	-	-	-	~~124.5~~ **165.82**	-	24.9	24.9
	H1						24.9		24.9	24.9
	D4						24.9		24.9	24.9
	L1						24.9		24.9	24.9
	P7						24.9		9.9	9.9
	RS9						**24.9**		**9.9**	**9.9**
	PC12						**24.9**		**9.9**	**9.9**
Mold Release		-	-	-	-	-	~~27.75~~ **40.59**	-	-	-
Molding Process		-	-	-	-	-	0.0005	-	0.0005	-
Cleaning		-	-	-	-	-	~~21.77~~ **30.03**	-	0.0009	-
Engine~~s~~		~~1.14~~ **0.06**	~~1.14~~ **0.06**	~~1.14~~ **0.06**	~~1.06~~ **0.06**	~~16.02~~ **0.91**	~~1.30~~ **0.07**	~~3.45~~ **0.20**	~~0.01~~ **0.0008**	~~0.004~~ **-**
NG Combustion Units		**0.072**	**0.288**	**0.288**	**0.023**	**3.786**	**0.208**	**3.18**	**0.071**	**0.003**
Printing		~~0.007~~ **0.01**	~~0.007~~ **0.01**	~~0.007~~ **0.01**	**-**	**-**	~~1.76~~ **2.567**	**-**	0.013	-
Adhesive, Sealant, and Glue Operation		-	-	-	-	-	~~3.12~~ **5.06**	-	~~0.132~~ **0.0094**	-
Filter Media		-	-	-	-	-	**-** **0.24**	-	**-** **0.12**	-
Welding		~~0.0035~~ **0.009**	~~0.0035~~ **0.009**	~~0.0035~~ **0.009**	-	-	-	-	-	-
Media Treatment		-	-	-	-	-	2.2	-	-	-
Metal Working		-	-	-	-	-	3.10	-	-	-
Media Ink		~~0.05~~ **0.061**	~~0.05~~ **0.061**	~~0.05~~ **0.061**	-	-	~~0.012~~ **0.014**	-	-	-
Media Trimming		~~5.0~~ **-**	~~5.0~~ **-**	~~5.0~~ **-**	-	-	-	-	-	-
Total PTE of Entire Source		~~6.20~~ **0.22**	~~6.20~~ **0.43**	~~6.20~~ **0.43**	~~1.06~~ **0.08**	~~16.02~~ **4.70**	~~185.51~~ **249.91**	~~3.45~~ **3.38**	~~109.66~~ **129.53**	~~109.50~~ **129.31**
Title V Major Source Thresholds		NA	100	100	100	100	100	100	25	10
PSD Major Source Thresholds		250	250	250	250	250	250	250	NA	NA

- = negligible * Under the Part 70 Permit program (40 CFR 70), PM10 and PM2.5, not particulate matter (PM), are each considered as a regulated air pollutant". **$PM_{2.5}$ listed is direct $PM_{2.5}$.

The table below summarizes the potential to emit of the entire source after issuance of this modification, reflecting all limits, of the emission units. (Note: the table below was generated from the above table, with bold text un-bolded and strikethrough text deleted).

Process/ Emission Unit		Potential To Emit of the Entire Source After Issuance of Modification (tons/year)								
		PM	PM_{10}*	$PM_{2.5}$**	SO_2	NO_x	VOC	CO	Total HAPs	Worst Single HAP (Formaldehyde)
Filter Media Processing	C1	-	-	-	-	-	165.82 24.9	-	24.9	24.9
	H1						24.9		24.9	24.9
	D4						24.9		24.9	24.9
	L1						24.9		24.9	24.9
	P7						24.9		9.9	9.9
	RS9						24.9		9.9	9.9
	PC12						24.9		9.9	9.9
Mold Release		-	-	-	-	-	40.59	-	-	-
Molding Process		-	-	-	-	-	0.0005	-	0.0005	-
Cleaning		-	-	-	-	-	30.03	-	0.0009	-
Engines		0.06	0.06	0.06	0.06	0.91	0.07	0.20	0.0008	-
NG Combustion Units		0.072	0.288	0.288	0.023	3.786	0.208	3.18	0.071	0.003
Printing		0.01	0.01	0.01	-	-	2.567	-	0.013	-
Adhesive, Sealant, and Glue Operation		-	-	-	-	-	5.06	-	0.0094	-
Filter Media		-	-	-	-	-	0.24	-	0.12	-
Welding		0.009	0.009	0.009	-	-	-	-	-	-
Media Treatment		-	-	-	-	-	2.2	-	-	-
Metal Working		-	-	-	-	-	3.10	-	-	-
Media Ink		0.061	0.061	0.061	-	-	0.014	-	-	-
Media Trimming		-	-	-	-	-	-	-	-	-
Total PTE of Entire Source		**0.22**	**0.43**	**0.43**	**0.08**	**4.70**	**249.91**	**3.38**	**129.53**	**129.31**
Title V Major Source Thresholds		NA	100	100	100	100	100	100	25	10
PSD Major Source Thresholds		250	250	250	250	250	250	250	NA	NA

- = negligible * Under the Part 70 Permit program (40 CFR 70), PM10 and PM2.5, not particulate matter (PM), are each considered as a regulated air pollutant". **$PM_{2.5}$ listed is direct $PM_{2.5}$.

This existing minor PSD stationary source will continue to be minor under 326 IAC 2-2 because the emissions of each PSD regulated pollutant will continue to be less than the PSD major source thresholds. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

Federal Rule Applicability Determination

Due to the modification at this source, federal rule applicability has been reviewed as follows:

New Source Performance Standards (NSPS):

(a) The requirements of the National Emission Standards for Hazardous Air Pollutants for Halogenated Solvent Cleaning, 40 CFR 63, Subpart T and 326 IAC 20-6, are not included in the permit because this source does not use halogenated solvents in any of the parts washers.

(b) There are no New Source Performance Standards (40 CFR Part 60) and 326 IAC 12 included in the permit for this proposed modification.

National Emission Standards for Hazardous Air Pollutants (NESHAP):

(a) The Printing Operation servicing all production lines, identified as S1, is subject to the National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products, 40 CFR 63, Subpart MMMM, and 326 IAC 20-80, because the source is a major HAP source, and because this printing operation engages in the coating of metal parts and products and uses more than two-hundred fifty (250) gallons of coating that contains HAPs. The units subject to this rule include the following:

One (1) pad printing unit and three (3) inkjet printing units, coating paper, plastic, and metal, with a combined maximum usage rate of 0.2 pounds of printing inks and solvents per hour, with emissions uncontrolled.

These units are subject to the following portions of Subpart MMMM:

(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 to Subpart MMMM
(24) Table 2 to Subpart MMMM
(25) Table 3 to Subpart MMMM
(26) Table 4 to Subpart MMMM
(27) Appendix A to Subpart MMMM

The requirements of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated as 326 IAC 20-1, apply to the units except as otherwise specified in 40 CFR 63, Subpart MMMM.

(b) The printing operation S1 is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for National Emission Standards for Hazardous Air Pollutants for Surface Coating of Plastic Parts and Products, 40 CFR 63, Subpart PPPP, and 326 IAC 20-81, because the source is a major HAP source, and the printing operation S1 engages in surface coating of plastic parts and products and uses more than one-hundred (100) gallons of coating that contains HAPs. In addition, the adhesive, sealant and glue operation emission unit RS7, PC3, PC5, PC6, C11, and PC2, cold cleaners, identified as RS11 and PC13, and mold release operation, identified as M1, are subject to 40 CFR 63, Subpart PPPP. The emission units subject to this rule are as follows:

(1) Three (3) mold release spray booths servicing RS9 and PC12, 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 3.2 pounds of mold release agent per hour, with emissions uncontrolled and exhausting to stack V20 and V21, associated equipment includes three (3) electric mold preheat ovens, with emissions uncontrolled;

(2) One (1) urethane parts washer cold cleaning tank, identified as PC13, with a maximum capacity of twenty (20) gallons and a working capacity of ten (10) gallons, with emissions uncontrolled and exhausting to stack V20;

(3) One (1) urethane parts washer cold cleaning tank, identified as RS11, with a maximum capacity of twenty (20) gallons and a working capacity of ten (10) gallons, with emissions uncontrolled and exhausting to stack V21;

(4) One (1) pad printing unit and three (3) inkjet printing units, coating paper, plastic, and metal, with a combined maximum usage rate of 0.2 pounds of printing inks and solvents per hour, with emissions uncontrolled.

(5) Two (2) adhesive dispensing stations associated with Radial Seal filter line RS9, Identified as RS7, dispensing polyurethane adhesive components (diisocyanate and polyol) with a combined maximum capacity of 652 pounds per hour;

(6) One (1) Filter Element Elastomeric Rubber Beading Unit, , identified as PC3, with a maximum capacity of 160 pounds per hour, with emissions uncontrolled; and

(7) Four (4) adhesive dispensing stations associated with Power Core filter line PC12, identified as PC5, PC6, PC11, and PC2, dispensing polyurethane adhesive components (diisocyanate and polyol) with a combined maximum capacity of 368 pounds per hour, with emissions uncontrolled.

These units are subject to the following portions of Subpart PPPP:

(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 to Subpart PPPP
(24) Table 3 to Subpart PPPP
(25) Table 4 to Subpart PPPP
(26) Appendix A to Subpart PPPP

The provisions of 40 CFR 63 Subpart A – General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the facilities described in this section except when otherwise specified in 40 CFR 63 Subpart PPPP.

(c) There are no other National Emission Standards for Hazardous Air Pollutants under 40 CFR 63, 326 IAC 14 and 326 IAC 20 included for this proposed modification.

Compliance Assurance Monitoring (CAM):

(a) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is applicable to each existing pollutant-specific emission unit that meets the following criteria:

(1) has a potential to emit before controls equal to or greater than the major source threshold for the regulated pollutant involved;

(2) is subject to an emission limitation or standard for that pollutant (or a surrogate thereof); and

(3) uses a control device, as defined in 40 CFR 64.1, to comply with that emission limitation or standard.

(b) Pursuant to 40 CFR 64.2(b)(1)(i), emission limitations or standards proposed after November 15, 1990 pursuant to a NSPS or NESHAP under Section 111 or 112 of the Clean Air Act are exempt from the requirements of CAM. Therefore, an evaluation was not conducted for any emission limitations or standards proposed after November 15, 1990 pursuant to a NSPS or NESHAP under Section 111 or 112 of the Clean Air Act.

(c) Pursuant to 40 CFR 64.2(b)(1)(iii), Acid Rain requirements pursuant to Sections 404, 405, 406, 407(a), 407(b), or 410 of the Clean Air Act are exempt emission limitations or standards. Therefore, CAM was not evaluated for emission limitations or standards for SO_2 and NO_X under the Acid Rain Program.

(d) Pursuant to 40 CFR 64.3(d), if a continuous emission monitoring system (CEMS) is required pursuant to other federal or state authority, the owner or operator shall use the CEMS to satisfy the requirements of CAM according to the criteria contained in 40 CFR 64.3(d).

The requirements of 40 CFR 64.2 are not included in this permit because none of the emission units are controlled by an add-on control device.

State Rule Applicability Determination - Entire Source

Due to the modification at this source, state rule applicability has been reviewed as follows:

(a) 326 IAC 2-2 (PSD)
The source was constructed after 1977, the applicablity date of this rule and it is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 (PSD). Although the source has the potential to emit in excess of 250 ton per year of VOC emissions, the source has agreed to limit

the PTE of VOC emissions to less than 250 tons per year. Therefore, the source is a minor source under 326 IAC 2-2 (PSD).

In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD) not applicable, the volatile organic compound (VOCs) emissions from Filter Media Processing units, identified as C1, H1, D4, L1, P7, RS9, and PC12 shall comply with the following:

The VOC inputs to these emission units, shall not exceed 165.82 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with the above limits in combination with potential VOC emissions from all other emission units will limit the source-wide VOC emissions to less than 250 tons per year and will render the requirements of 326 IAC 2-2 (PSD) not applicable to this source.

(b) 326 IAC 2-7-6(5) (Annual Compliance Certification)
The U.S. EPA Federal Register 79 FR 54978 notice does not exempt Title V Permittees from the requirements of 40 CFR 70.6(c)(5)(iv) or 326 IAC 2-7-6(5)(D), but the submittal of the Title V annual compliance certification to IDEM satisfies the requirement to submit the Title V annual compliance certifications to EPA. IDEM does not intend to revise any permits since the requirements of 40 CFR 70.6(c)(5)(iv) or 326 IAC 2-7-6(5)(D) still apply, but Permittees can note on their Title V annual compliance certifications that submission to IDEM has satisfied reporting to EPA per Federal Register 79 FR 54978. This only applies to Title V Permittees and Title V compliance certifications.

State Rule Applicability Determination - Individual Facilities

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))
The operation of RadialSeal Line 9, identified as RS9 and PowerCore Line, identified as (PC12 will emit greater than ten (10) tons per year for a single HAP and less than twenty-five (25) tons per year for a combination of HAPs, each. However, the source chose to take a limit so that the equirement of 326 IAC 2-4.1 does not apply. These emisison units shall be limited as follows:

The RadialSeal Line 9, identified as RS9 and PowerCore Line, identified as (PC12), single HAPs emissions (Formaldehyde) shall not exceed 9.9 tons per twelve (12) consecutive month period, each, with compliance determined at the end of each month.

Compliance with these limits shall limit the potential to emit single HAP from RadialSeal Line 9, identified as RS9 and PowerCore Line, identified as PC12, to less than 10 tons per year, shall render the requirements of 326 IAC 2-4.1 not applicable to these emission units.

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)

(a) Pursuant to 326 IAC 6-3-1(b)(14), the Pleater Ink Mark system, identified as K1 is not subject to the requirements of 326 IAC 6-3, since it's potential to emit particulate matter is less than five hundred fifty-one thousandths (0.551) pounds per hour.

(b) Pursuant to 326 IAC 6-3-1(b)(14), the one (1) pad printing unit and three (3) inkjet printing units are not subject to the requirements of 326 IAC 6-3, because their potential to emit particulate matter is less than five hundred fifty-one thousandths (0.551) pounds per hour.

(c) Pursuant to 326 IAC 6-3-1(b)(14), the one (1) resistance welding operation is not subject to the requirements of 326 IAC 6-3, because it's potential to emit particulate matter is less than five hundred fifty-one thousandths (0.551) pounds per hour.

326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)

(a) The unlimited VOC potential emission from each of the filter media processing operations RS9 and PC13 is greater than twenty-five (25) tons per year. However, the source has chosen to limit the VOC potential emissions from RS9 and PC13 each to less than twenty-

five (25) tons per year. Therefore, the requirements of 326 IAC 8-1-6 do not apply.

In order to render the requirements of 326 IAC 8-1-6 not applicable, the emission units RS9 and PC13 each shall be limited as follows:

Emission Unit	VOC Limit (tons/12 consecutive month period)
RS9	< 25
PC12	< 25

Compliance with these limits shall limit the potential to emit VOC emissions from the RS9 and PC13, each to less than twenty-five (25) tons per year and shall render the requirements of 326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities) not applicable to these units.

(b) Each of the three (3) mold release spray booths servicing RS9 and PC12, is not subject to the requirements of 326 IAC 8-1-6 because the unlimited VOC potential emissions from each emission unit is less than twenty-five (25) tons per year.

(c) Each of the cleaning operation, identified as RS11 and PC13, is not subject to the requirements of 326 IAC 8-1-6 because the unlimited VOC potential emission from each emission unit is less than twenty-five (25) tons per year.

(d) The media ink, identified as K1, is exempt from this rule because the VOC potential emissions from this emission unit is less than twenty-five (25) tons per year.

(e) The adhesive, sealant and glue operations are exempt from this rule because the VOC potential emissions from these emission units is less than twenty-five (25) tons per year.

(f) The one (1) pad printing unit and three (3) inkjet printing operation are exempt from this rule because the VOC potential emissions from these emission units is less than twenty-five (25) tons per year.

326 IAC 8-2-5 (VOC Rules: Paper Coating Operations)

The provisions of 326 IAC 8-2-5 (Paper Coating Operations) do not apply to the printing opeation, identified as S1, because these printers are inkjet printers and not web coating or saturations processes.

326 IAC 8-2-9 (Miscellaneous Metal Coating)

(a) The three (3) new mold release spray booths spray booths servicing RS9 and PC12, have actual emission of greater than fifteen (15) pounds of VOC per day, however, the emission units are located in Clinton County and the emission units do not perform metal surface coating. Pursuant to 326 IAC 8-2-9(a)(1), the requirements of 326 IAC 8-2-9 are not applicable to these emission units.

(b) Pursuant to 326 IAC 8-1-1(b), each of the printing operation, identified as S1, is exempt from this rule because the VOC potential emissions from these emission units is less than fifteen (15) pounds per day,

326 IAC 8-3-2 (Cold Cleaner Degreaser Control Equipment)

Cleaning systems and parts washers RS11 and PC13 are subject to the requirements of 326 IAC 8-3-2, because they were constructed after July 1, 1990 and located in Clinton County, pursuant to 326 IAC 8-3-1(c)(2)(A).

326 IAC 8-3-8 (VOC Rules: Material Requirements for Cold Cleaning Degreasers)

Pursuant to 326 IAC 8-3-1(c)(3)(B), the cleaning systems and parts washers RS11 and PC13 are subject to the requirements of 326 IAC 8-3-8 because they use solvent for use in cold cleaner degreasers.

326 IAC 8-5-5 (Graphic Arts Operations)

The provisions of 326 IAC 8-5-5 (Graphic Arts Operations) do not apply to the printing opeation, identified as S1, because the rule pertains to publication rotogravure, packaging rotogravure, and flexographic printing presses.

326 IAC 8-16 (Offset Lithographic Printing and Letterpress Printing)

The provisions of 326 IAC 8-16 (Offset Lithographic Printing and Letterpress Printing) do not apply to the printing opeation, identified as S1, because these printers are inkjet printers and not offset lithographic or letter press printing operations. In addition, this source is not located in Lake or Porter County. This source is located in Clinton County.

There are no other 326 IAC 8 Rules that are applicable to the Litho presses.

Compliance Determination and Monitoring Requirements

Permits issued under 326 IAC 2-7 are required to assure that sources can demonstrate compliance with all applicable state and federal rules on a continuous basis. All state and federal rules contain compliance provisions; however, these provisions do not always fulfill the requirement for a continuous demonstration. When this occurs, IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, Compliance Determination Requirements are included in the permit. The Compliance Determination Requirements in Section D of the permit are those conditions that are found directly within state and federal rules and the violation of which serves as grounds for enforcement action.

If the Compliance Determination Requirements are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also in Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

There are no new or modified compliance requirements included with this modification.

Proposed Changes

The following changes listed below are due to the proposed modification. Deleted language appears as ~~strikethrough~~ text and new language appears as **bold** text:

(1) To incorporate the new emission units, the permit is modified as follows:

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

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

(a) ~~Five (5)~~ Seven (7) filter media processing operations consisting of the following:

****

(6) One (1) Radial Seal filter media emission unit, identified as RS9, approved in 2018 for construction, with a maximum capacity of 2,000 pounds of filter media per hour, associated equipment includes a three (3) element cure oven, electric media steaming unit and an electric media dry off oven, emissions are uncontrolled and exhaust through stack V21.

(7) One (1) Power Core filter media emission unit, identified as PC12, approved in 2018 for construction, with a maximum capacity of 1,201 pounds of filter media per hour, associated equipment includes a three (3) element cure oven and an electric media dry off oven, emissions are uncontrolled and exhaust through stack V20.

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

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

(a) one (1) Mold Release Operation, identified as M1, consisting of ~~seven (7)~~**ten (10)** mold release spray booths servicing several production lines, constructed in 1980 (modified in 2002) (2), 1992 (1), 1997 (2), 2006 (1), ~~and~~ 2009 (1), **and 2018 (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~~**10.19** pounds of mold release agent per hour, with emissions uncontrolled and exhausting to stack V41, V16, V5, V8,; associated equipment includes six (6) electric mold preheat ovens, constructed in 1995 (2), 1997 (2), and 2006 (2), with emissions uncontrolled;

[Under 40 CFR 63, Subpart PPPP, the mold release operation is considered an affected facility]

(b) one (1) polyurethane end cap and gasket molding process (emission unit P11),

(c) 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.

(d) ~~Eight (8)~~**Ten (10)** Cleaning Operations consisting of the following:

***

(9) One (1) urethane parts washer cold cleaning tank, identified as PC13, with a maximum capacity of twenty (20) gallons and a working capacity of ten (10) gallons, with emissions uncontrolled and exhausting to stack V20;

[Under 40 CFR 63, Subpart PPPP, this cold cleaning system is considered an affected facility]

(10) One (1) urethane parts washer cold cleaning tank, identified as RS11, with a maximum capacity of twenty (20) gallons and a working capacity of ten (10) gallons, with emissions uncontrolled and exhausting to stack V21.

[Under 40 CFR 63, Subpart PPPP, this cold cleaning system is considered an affected facility]

****

(g) one (1) Printing Operation servicing all production lines, identified as S1, consisting of ~~ten (10)~~**fourteen (14)** printing units, constructed in 2000 (3), ~~and~~ 2012 (7), **and 2018 (4),** 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 emission uncontrolled and fugitive.

[Under 40 CFR 63, Subpart MMMM, the printing operation S1 is considered an affected facility]

[Under 40 CFR 63, Subpart PPPP, the printing operation S1 is considered an affected facility]

(h) Adhesive, Sealant and Glue Operations consisting of the following:

****

(10) Two (2) adhesive dispensing stations associated with Radial Seal filter line RS9, identified as RS7, dispensing polyurethane adhesive components (diisocyanate and polyol) with a combined maximum capacity of 652 pounds per hour;

(11) One (1) Filter Element Elastomeric Rubber Beading Unit, identified as PC3, with a maximum capacity of 160 pounds per hour, with emissions uncontrolled; and

(12) Four (4) adhesive dispensing stations associated with Power Core filter line PC12, identified as PC5, PC6, PC11, and PC2, dispensing polyurethane adhesive components (diisocyanate and polyol) with a combined maximum capacity of 368 pounds per hour, with emissions uncontrolled.

[Under 40 CFR 63, Subpart MMMM, emission units B1, B2, H8, H9, H13, H11-1, H11-2, W1, W2, W3, and W4 are considered affected facilities.]

[Under 40 CFR 63, Subpart PPPP, emission units B1, B2, C2, C7-1, C7-2, D13-1, D13-2, L8-1, L8-2**, RS7, PC3, PC5, PC6, PC11, and PC2** are considered affected facilities.]

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

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

(a) water based adhesives that are less than or equal to 5% by volume of VOCs excluding HAPs, consisting of the following:

***

(9) One (1) Filter Element Outer/Inner Liner Hot-Melt Beading Unit, identified as RS10, using non-VOC and non-HAP adhesive;

(10) One (1) Media Seam Seal Unit, identified as RS2, using non-VOC and non-HAP adhesive;

(11) Two (2) Single Facer Power Core Media Polyolefin Hot-Melt Beading Units, identified as PC1, using non-VOC and non-HAP adhesive;

(12) One (1) Filter Element Plastic Shell Panel to Media Beading Unit, identified as PC2, using non-VOC and non-HAP adhesive;

(13) One (1) Filter Element Fiber Side Panel to Media Beading Unit and one (1) Filter Element Plastic Shell Panel to Media Beading Unit, identified as PC3, using non-VOC and non-HAP adhesive.

****

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(a) ~~Five (5)~~ **Seven (7)** ~~F~~filter media processing operations consisting of the following:

***

(6) One (1) Radial Seal filter media emission unit, identified as RS9, approved in 2018 for construction, with a maximum capacity of 2,000 pounds of filter media per hour, associated equipment includes a three (3) element cure oven, electric media steaming unit and an electric media dry off oven, emissions are uncontrolled and exhaust through stack V21.

(7) One (1) Power Core filter media emission unit, identified as PC12, approved in 2018 for construction, with a maximum capacity of 1,201 pounds of filter media per hour, associated equipment includes a three (3) element cure oven and an electric media dry off oven, emissions are uncontrolled and exhaust through stack V20.

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

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

D.1.1 Prevention of Significant Deterioration (PSD) Minor Limits [326 IAC 2-2]

In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable, the Permittee shall comply with the following:

The VOC inputs to these emission units, identified as C1, H1, D4, L1**,** ~~and~~ P7**, RS9, and PC12** shall not exceed ~~124.51~~**165.82** tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with the above limits in combination with potential VOC emissions from all other emission units at the source shall limit the source-wide VOC emissions to less than 250 tons per year and render the requirements of 326 IAC 2-2 (PSD) not applicable to this source.

D.1.2 Hazardous Air pollutants (HAPs) Minor Limit [326 IAC 2-4.1]

In order to render the requirements of 326 IAC 2-4.1 (Major Source of Hazardous Air Pollutants (HAP)) not applicable, the permittee shall comply with the following limits:

(a) The Power Core filter media emission unit, identified as P7, Formaldehyde emissions shall not exceed 9.9 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with this limit shall limit the potential to emit single HAP from Power Core filter media emission unit, identified as P7 to less than 10 tons per year and total HAPs to less than 25 tons per year and shall render the requirements of 326 IAC 2-4.1 not applicable to this emission unit.

(b) The RadialSeal Line 9, identified as RS9 and PowerCore Line, identified as PC12, Formaldehyde emissions shall not exceed 9.9 tons per twelve (12) consecutive month period, each, with compliance determined at the end of each month.

Compliance with these limits shall limit the potential to emit single HAP from RadialSeal Line 9, identified as RS9 and PowerCore Line, identified as PC12, to less than 10 tons per year and total HAPs to less than 25 tons per year and shall render the requirements of 326 IAC 2-4.1 not applicable to these emission units.

D.1.3 Volatile Organic Compound (VOC) Limit [326 IAC 8-1-6] [326 IAC 2-2]

In order to render the requirements of 326 IAC 8-1-6 (New Facilities; General Reduction Requirements) not applicable, the source shall comply with the following:

Emission Unit	VOC Limit (tons/12 consecutive month period)

C1	< 25
H1	< 25
D4	< 25
L1	< 25
P7	< 25
RS9	**< 25**
PC12	**< 25**

Compliance with these limits shall limit the potential to emit VOC emissions from the emission units, identified as C1, H1, D4, L1**,** ~~and~~ P7**, RS9, and PC12** each to less than twenty-five (25) tons per year and shall render the requirements of 326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities) not applicable to these units.

D.1.4 Preventive Maintenance Plan [325 IAC 1-6-3]

A Preventive Maintenance Plan is required for these facilities and any control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition

Compliance Determination

D.1.5 Compliance Determination Calculations for VOCs and HAPs

(1) To determine the compliance status with the VOC emission limits listed in Conditions D.1.1 and D.1.3, the following equation shall be used:

VOC emissions (tons per month) = [(#$_H$ lbs/ month * EF_H) + (#$_L$ lbs/ month * EF_L)] * 1 ton / 2000 lbs

Where:

#$_H$ = pounds of high VOC filter media per month
EF_H = 0.005 pound VOC per pound high VOC filter media
#$_L$ = pounds of low VOC filter media per month
EF_L = 0.0015 pound VOC per pound low VOC filter media

Note: This equation shall be used to calculate VOCs emissions for each of these emission units: C1, H1, D4, L1**,** ~~and~~ P7, **RS9, and PC12**

(2) To determine the compliance status with the Single HAP (Formaldehyde) emission limit listed in Condition D.1.2, the following equation shall be used:

HAP emissions (tons per month) = [(#$_H$ lbs/ month * EF_H) + (#$_L$ lbs/ month * EF_L)] * 1 ton / 2000 lbs

Where:

#$_H$ = pounds of high HAP filter media per month
EF_H = 0.005 pound HAP per pound high VOC filter media
#$_L$ = pounds of low HAP filter media per month
EF_L = 0.0015 pound HAP per pound low VOC filter media

Note: This equation shall be used to calculate the single HAPs (Formaldehyde) emissions from the Power Core filter media emission unit, identified as P7**, the RadialSeal Line 9, identified as RS9 and the PowerCore Line, identified as PC12**.

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

D.1.6 Record Keeping Requirement

(a) To document the compliance status with Conditions D.1.1, D 1.2 and D.1.3, the Permittee shall maintain records of the weight of the filter media used on a monthly basis, including purchase orders, invoices, and/or Electronic Material Transaction Records (i.e. Oracle) necessary to verify the amount of the filter media used. The records shall be complete and sufficient to establish compliance with the limitations established in Conditions D.1.1, D.1.2 and D.1.3.

(b) Section C- Record Keeping and Reporting Requirements of this permit contains the Permittee's obligation with the recordkeeping requirements required by this condition.

D.1.7 Reporting Requirement

A quarterly report of the information to document the compliance status with Conditions D.1.1, D.1.2 and D.1.3 shall be submitted using the reporting forms located at the end of this permit, or their equivalent, not later than thirty (30) days following the end of each calendar quarter. 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(35). Section C - General Reporting Requirements contains the Permittee's obligations with regard to the reporting required by this condition

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

Specifically Regulated Insignificant Activities:

(d) ~~Eight (8)~~**Ten (10)** Cleaning Operations consisting of the following:

***

(9) One (1) urethane parts washer cold cleaning tank, identified as PC13, with a maximum capacity of twenty (20) gallons and a working capacity of ten (10) gallons, with emissions uncontrolled and exhausting to stack V20;

[Under 40 CFR 63, Subpart MMMM, this cold cleaning system is considered an affected facility]

(10) One (1) urethane parts washer cold cleaning tank, identified as RS11, with a maximum capacity of twenty (20) gallons and a working capacity of ten (10) gallons, with emissions uncontrolled and exhausting to stack V21.

[Under 40 CFR 63, Subpart MMMM, this cold cleaning system is considered an affected facility]

****

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

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

D.2.1 Cold Cleaner Degreaser Control Equipment [326 IAC 8-3-2]

(a) Pursuant to 326 IAC 8-3-2(a) (Cold Cleaner Degreaser Control Equipment), the owner or operator of cleaning systems and parts washers, identified as C6, H2, F1, D17, L7, P12, ~~and~~ F2**, PC13, and RS11**, shall ensure the following control equipment and operation requirements are met:

***

(b) Pursuant to 326 IAC 8-3-2(b) (Cold Cleaner Degreaser Control Equipment), the owner or operator of cleaning systems and parts washers, identified as D17, L7, P12, ~~and~~ F2, **PC13, and RS11,** shall ensure the following additional control equipment and operation requirements are met:

****

SECTION E.2 NESHAP

Emissions Unit Description:

Specifically Regulated Insignificant activities:

***

(g) one (1) Printing Operation servicing all production lines, identified as S1, consisting of ~~ten (10)~~**fourteen (14)** printing units, constructed in 2000 (3), ~~and~~ 2012 (7), **and 2018 (4),** 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 emission uncontrolled and fugitive.

[Under 40 CFR 63, Subpart MMMM, the printing operation S1 is considered an affected facility]

[Under 40 CFR 63, Subpart PPPP, the printing operation S1 is considered an affected facility]

***

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

****

SECTION E.3 NESHAP

Emissions Unit Description:

Specifically Regulated Insignificant Activities:

(a) one (1) Mold Release Operation, identified as M1, consisting of ~~seven (7)~~**ten (10)** mold release spray booths servicing several production lines, constructed in 1980 (modified in 2002) (2), 1992 (1), 1997 (2), 2006 (1), ~~and~~ 2009 (1), **and 2018 (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~~**10.19** pounds of mold release agent per hour, with emissions uncontrolled and exhausting to stack V41, V16, V5, V8,; associated equipment includes six (6) electric mold preheat ovens, constructed in 1995 (2), 1997 (2), and 2006 (2), with emissions uncontrolled;

[Under 40 CFR 63, Subpart PPPP, the mold release operation is considered an affected facility]

(d) ~~Eight (8)~~**Ten (10)** Cleaning Operations consisting of the following:

****

(11) One (1) urethane parts washer cold cleaning tank, identified as PC13, with a maximum capacity of twenty (20) gallons and a working capacity of ten (10) gallons, with emissions uncontrolled and exhausting to stack V20;

[Under 40 CFR 63, Subpart PPPP, this cold cleaning system is considered an affected facility]

(12) One (1) urethane parts washer cold cleaning tank, identified as RS11, with a maximum capacity of twenty (20) gallons and a working capacity of ten (10) gallons, with emissions uncontrolled and exhausting to stack V21.

[Under 40 CFR 63, Subpart PPPP, this cold cleaning system is considered an affected facility]

(g) one (1) Printing Operation servicing all production lines, identified as S1, consisting of ~~ten (10)~~**fourteen (14)** printing units, constructed in 2000 (3), ~~and~~ 2012 (7), **and 2018 (4),** 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 emission uncontrolled and fugitive.

[Under 40 CFR 63, Subpart MMMM, the printing operation S1 is considered an affected facility]

[Under 40 CFR 63, Subpart PPPP, the printing operation S1 is considered an affected facility]

(h) Adhesive, Sealant and Glue Operations consisting of the following:

***

(10) Two (2) adhesive dispensing stations associated with Radial Seal filter line RS9, identified as RS7, dispensing polyurethane adhesive components (diisocyanate and polyol) with a combined maximum capacity of 652 pounds per hour;

(11) One (1) Filter Element Elastomeric Rubber Beading Unit, identified as PC3, with a maximum capacity of 160 pounds per hour, with emissions uncontrolled; and

(12) Four (4) adhesive dispensing stations associated with Power Core filter line PC12, identified as PC5, PC6, PC11, and PC2, dispensing polyurethane adhesive components (diisocyanate and polyol) with a combined maximum capacity of 368 pounds per hour, with emissions uncontrolled.

[Under 40 CFR 63, Subpart MMMM, emission units B1, B2, H8, H9, H13, H11-1, H11-2, W1, W2, W3, and W4 are considered affected facilities.]

[Under 40 CFR 63, Subpart PPPP, emission units B1, B2, C2, C7-1, C7-2, D13-1, D13-2, L8-1, L8-2, **RS7, PC3, and PC5, PC6, PC11, and PC2** are considered affected facilities.]

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

****

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

Part 70 Quarterly Report

Source Name: Donaldson Company, Inc
Source Address: 3260 West State Road 28, Frankfort, Indiana 46041
Part 70 Permit No.: T023-38096-00024
Facility: Emission units identified as C1, H1, D4, ~~and~~ P7**, RS9, and PC12**
Parameter: VOC Emissions
Limit: Less than ~~124.5~~**165.82** tons of VOCs per twelve (12) consecutive month period

QUARTER : _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	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 AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: **Donaldson Company, Inc**
Source Address: **3260 West State Road 28, Frankfort, Indiana 46041**
Part 70 Permit No.: **T023-38096-00024**
Facility: **The RadialSeal Line 9, identified as RS9**
Parameter: **Single HAP Emission (Formaldehyde)**
Limit: **less than 9.9 tons per twelve (12) consecutive month period**

QUARTER : _____ **YEAR:** _____

Month	Column 1	Column 2	Column 1 + Column 2
	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 AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: **Donaldson Company, Inc**
Source Address: **3260 West State Road 28, Frankfort, Indiana 46041**
Part 70 Permit No.: **T023-38096-00024**
Facility: **The PowerCore Line, identified as PC12**
Parameter: **Single HAP Emission (Formaldehyde)**
Limit: **less than 9.9 tons per twelve (12) consecutive month period**

QUARTER : _____ **YEAR:** _____

Month	Column 1	Column 2	Column 1 + Column 2
	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 AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: Donaldson Company, Inc
Source Address: 3260 West State Road 28, Frankfort, Indiana 46041
Part 70 Permit No.: T023-38096-00024
Facility: The RadialSeal Line 9, identified as RS9
Parameter: VOC Emissions
Limit: less than 25 tons per twelve (12) consecutive month period.

QUARTER : _____ **YEAR:** _____

Month	Column 1	Column 2	Column 1 + Column 2
	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 AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: **Donaldson Company, Inc**
Source Address: **3260 West State Road 28, Frankfort, Indiana 46041**
Part 70 Permit No.: **T023-38096-00024**
Facility: **The PowerCore Line, identified as PC12**
Parameter: **VOC Emissions**
Limit: **less than 25 tons per twelve (12) consecutive month period.**

QUARTER : _____ **YEAR:** _____

Month	Column 1	Column 2	Column 1 + Column 2
	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: _____

(2) To incorporate the change in the diesel fired generator description, the permit is modified as follows:

****

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

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

****

(f) One (1) internal combustion 4 stroke lean-burn engine, with maximum capacity of 118 hp/hr, identified as E1, using diesel fuel, running **emergency** fire **pump for** sprinkler system ~~for testing purposes~~, constructed in 2016;

****

****

SECTION E.4 NESHAP

Emissions Unit Description:

Specifically Regulated Insignificant Activities:

(f) One (1) internal combustion 4 stroke lean-burn engine, with maximum capacity of 118 hp/hr, identified as E1, using diesel fuel, running **emergency** fire **pump for** sprinkler system ~~for testing purposes~~, constructed in 2016;

[Under 40 CFR 60, Subpart IIII, this unit is considered an affected facility]
[Under 40 CFR 63, Subpart ZZZZ, this unit is considered an affected facility]

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

(3) To remove a duplicate unit from the insignificant activities, the permit is modified as follows:

****

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

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

(a) water based adhesives that are less than or equal to 5% by volume of VOCs excluding HAPs, consisting of the following:

***

~~(12) One (1) Filter Element Plastic Shell Panel to Media Beading Unit, identified as PC2, using non-VOC and non-HAP adhesive;~~

(~~13~~**12**) One (1) Filter Element Fiber Side Panel to Media Beading Unit and one (1) Filter Element Plastic Shell Panel to Media Beading Unit, identified as PC3, using non-VOC and non-HAP adhesive.

Conclusion and Recommendation

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant. An application for the purposes of this review was received on August 7, 2018

The construction of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Significant Source Modification No. 023-40281-00024. The operation of this proposed modification shall be subject to the conditions of the attached Significant Permit Modification.

The staff recommends to the Commissioner that the Part 70 Significant Source Modification and Significant Permit Modification be approved.

IDEM Contact

(a) If you have any questions regarding this permit, please contact Ghassan Shalabi, Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251, or by telephone at (317) 233-7622 or (800) 451-6027, and ask for Ghassan Shalabi or (317) 233-7622.

(b) A copy of the findings is available on the Internet at: http://www.in.gov/ai/appfiles/idem-caats/

(c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Air Permits page on the Internet at: http://www.in.gov/idem/airquality/2356.htm; and the Citizens' Guide to IDEM on the Internet at: http://www.in.gov/idem/6900.htm.

Appendix A: Emissions Calculations
Emission Summary

Company Name: Donaldson Company, Inc.
Address City IN Zip: 3260 W. State Road 28, Frankfort, Indiana 46041
SSM No.: 023-40281-00024
SPM No. 023-40308-00024
Reviewer: Ghassan Shalabi
Date: Sepember 13, 2018

Uncontrolled Potential Emissions (tons/year)

		Emissions Generating Activity (tons/yr)													
Category	Pollutant	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	Media Trimming	Natural Gas Combustion Units	Filter Media Adhesive	Engine	TOTAL
Emission Units		G1	C1, H1, D4, L1, P7, RS9, PC12	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, P19, P21, P22, P23		
Criteria Pollutants	PM			**0.000**	**0.000**	**0.010**	**0.000**	**0.061**	**0.000**	**0.009**	**-**	**0.072**		**0.06**	**0.22**
	PM10			**0.000**	**0.000**	**0.010**	**0.000**	**0.061**	**0.000**	**0.009**	**-**	**0.288**		**0.06**	**0.43**
	PM2.5			**0.000**	**0.000**	**0.010**	**0.000**	**0.061**	**0.000**	**0.009**	**-**	**0.288**		**0.06**	**0.43**
	SO2										**-**	**0.023**		**0.06**	**0.08**
	NOx										**-**	**3.786**		**0.91**	**4.70**
	VOC	**2.198**	**271.604**	**40.592**	**5.059**	**2.567**	**30.034**	**0.014**	**3.099**		**-**	**0.208**	**0.24**	**0.07**	**353.49**
	CO										**-**	**3.180**		**0.20**	**3.38**
Hazardous Air Pollutants	Xylenes				**9.4E-03**	**1.3E-02**	**8.8E-04**							**0.000**	**0.02**
	Chromium											**5.3E-05**			**5.3E-05**
	Manganese											**1.4E-05**			**1.4E-05**
	Nickel											**7.9E-05**			**7.9E-05**
	n-Hexane											**0.07**			**0.07**
	Toluene											**1.3E-04**		**8.4E-05**	**2.1E-04**
	Benzene											**7.9E-05**		**1.9E-04**	**2.7E-04**
	Dichlorobenzene											**4.5E-05**			**4.5E-05**
	Formaldehyde		**271.60**									**2.8E-03**		**2.4E-04**	**271.61**
	MIBK					**0.00**									**0.0E+00**
	Ethyl Glycol												**0.12**		**0.0E+00**
	Lead											**1.9E-05**			**1.9E-05**
	Cadmium											**4.2E-05**			**4.2E-05**
	Totals		**271.60**	**0.00**	**0.01**	**0.01**	**0.00**	**0.0000**	**0.00**	**0.00**	**0.00**	**0.07**	**0.12**		**271.82**
												0.07			

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
SSM Interim No.: 023-40281I-00024
Reviewer: Ghassan Shalabi
Date: Sepember 13, 2018

Limited Emissions (tons/year)

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 (tons/yr)													
Category	Pollutant	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	Media Trimming	Natural Gas Combustion Units	Filter Media Adhesive	Engine	TOTAL
Emission Units		G1	C1, H1, D4, L1, P7, RS9, PC12	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, P19, P21, P22, P23		
Criteria Pollutants	PM			**0.000**	**0.000**	**0.010**	**0**	**0.061**	**0.000**	**0.009**	**-**	**0.072**		**0.06**	**0.22**
	PM10			**0.000**	**0.000**	**0.010**	**0**	**0.061**	**0.000**	**0.009**	**-**	**0.288**		**0.06**	**0.43**
	PM10			**0.000**	**0.000**	**0.010**	**0**	**0.061**	**0.000**	**0.009**	**-**	**0.288**		**0.06**	**0.43**
	SO2										**-**	**0.023**		**0.06**	**0.08**
	NOx										**-**	**3.786**		**0.91**	**4.70**
	VOC	**2.198**	**165.82**	**40.59**	**5.06**	**2.567**	**30.03**	**0.014**	**3.099**		**-**	**0.208**	**0.24**	**0.07**	**249.91**
	CO										**-**	**3.180**		**0.20**	**3.38**
Hazardous Air Pollutants	Xylenes				**9.4E-03**	**0.013**	**8.8E-04**					**0.000**		**0.00**	**0.02**
	Chromium											**5.3E-05**		**0.00**	**0.00**
	Manganese											**1.4E-05**		**0.00**	**0.00**
	Nickel											**7.9E-05**		**0.00**	**0.00**
	n-Hexane											**0.07**		**0.00**	**0.07**
	Toluene											**1.3E-04**		**0.00**	**0.00**
	Benzene											**7.9E-05**		**0.00**	**0.00**
	Dichlorobenzene											**4.5E-05**		**0.00**	**0.00**
	Formaldehyde		**19.80**									**2.8E-03**		**0.00**	**19.80**
	MIBK					**0.00**								**0.00**	**0.00**
	Ethyl Glycol												**0.12**	**0.00**	**0.12**
	Lead											**1.9E-05**		**0.00**	**0.00**
	Cadmium											**4.2E-05**		**0.00**	**0.00**
	Totals		**19.80**	**0.0**	**9.4E-03**	**1.3E-02**	**8.8E-04**	**0.0E+00**	**0.0E+00**	**0.0E+00**	**0.0E+00**	**7.1E-02**	**0.12**	**0.00**	**20.02**
												0.068			

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

Appendix A: Emissions Calculations
Interim Emission Summary

Company Name: Donaldson Company, Inc.
Address City IN Zip: 3260 W. State Road 28, Frankfort, Indiana 46041
SSM No.: 023-40281-00024
SPM No. 023-40308-00024
Reviewer: Ghassan Shalabi

New Radial Seal Line 9 and Power Core Line 12 Project
Project Potential to Emit Summary

	PM/PM10/ PM2.5	VOC	HAP Worst	HAP Total
Pleater Ink Mark System	0.012	0.003	0	0
RadialSeal Line 9	0.0000	43.8	43.8	43.8
PowerCore Line PC12	0.0000	26.3	26.3	26.3
Mold Release Spray Booth Unit Number 1	0.0000	4.26	0.00	0.00
Mold Release Spray Booth Unit Number 2	0.0000	4.26	0.00	0.00
Mold Release Spray Booth Unit Number 1	0.0000	4.33	0.00	0.00
Parts Washer RS11	0.0000	4.13	0.00	0.00
Parts Washer PC13	0.0000	4.13	0.00	0.00
Printing Operation (Readial Seal Line 9) (Trans Tech Thinner)	0.0000	0.088	0.00	0.00
Printing Operation (Readial Seal Line 9) (Trans Tech Ink)	0.0018	0.060	0.00	0.00
Printing Operation (Readial Seal Line 9) (Hitachi Ink)	0.0003	0.036	0.00	0.00
Printing Operation (Readial Seal Line 9) (Hitachi Make-up (MEK))	0.0000	0.184	0.00	0.00
Prinitng Operation (Power Core Line 12) (Hitachi Ink)	0.0005	0.072	0.00	0.00
Prinitng Operation (Power Core Line 12) (Hitachi Make-up (MEK))	0.0000	0.368	0.00	0.00
Filter Element Elastomeric Rubber Beading Unit (PC3)	0.0026	2.183	0.00	0.00
Brazing, Cutting, Torches, Soldering, Welding	0.0025	0.00	0.00	0.00
	0.020	94.20	70.10	70.10

	lb/hr	PTE	Limited
PM/PM10/PM2.5	3.9E-03	1.7E-02	1.7E-02
VOC	21.51	94.20	73.90
Single HAP (Formaldehyde)	16.01	70.10	19.8
Total HAP	16.01	70.10	19.8

* RS9 and PC12 each limited to <24.9 ton per year VOC. RS9 and PC12 each limited to <9.9 ton per year HAP (Formaldehyde)

PowerCore Line 12 RadialSeal Line 9 Maximum Emmissions

	Current Permit 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/ PM2.5 lbs/hr	PTE PM/PM10/ PM2.5 tons/yr	Transfer Efficiency (%)*
Pleater Ink Mark System	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%

Will be used only on the new RadialSeal Line 9

Uncontrolled Potential to Emit @ RS 9 Pleater and SingleFacer PC12

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. The potential to emit residual formaldehyde from the filter media heating, steaming, curing, and dry off 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)	Worst Case Formaldehyde PTE of VOC (tons/yr)	Worst Case Formaldehyde Content of Filter Media (lb/lb)	Worst Case Formaldehyde PTE of Formaldehyde (tons/yr)*	
RadialSeal Line 9	RS9 associated equipment (electric pleat tip curing and electric dry off oven)	2000	0.005	10	87600	43.8	0.005	43.8	New RadialSeal Line Pleater
PowerCore Line PC12	PC12 (cure ovens and dry off oven P13)	1201	0.005	6.0	52,604	26.3	0.005	26.3	New PowerCore Line SingleFacer
			Unlimited Potential to Emit =	16.0	140,204	70.1		70.1	

Mold Release Spray Application
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/ PM2.5 lbs/hr	PTE PM/PM10/ PM2.5 tons/yr	Transfer Efficiency (%)*
Mold Release	Radial Seal 9	Mold Release Spray Booth Unit Number 1	M1	Ease Release Formula 82-36 (Mold Release)	6.266	0	5.640	1.08	0.17	1510.0	0.90	0.97	8,516	4.26	0.00	0.00	85%
Mold Release		Mold Release Spray Booth Unit Number 2	M1	Ease Release Formula 82-36 (Mold Release)	6.266	0	5.640	1.08	0.17	1510.0	0.90	0.97	8,516	4.26	0.00	0.00	85%
Mold Release	Power Core Line 12	Mold Release Spray Booth Unit Number 1	M1	Stoner E236 & E317 Urethane Mold Release	6.266	0	5.640	1.040	0.17	1454.1	0.95	0.99	8,655	4.33	0.00	0.00	85%
											Totals	2.93	25,687	12.84	0.00	0.00	

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

Urethane Mixhead Parts Washers
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/ PM2.5 lbs/hr	PTE PM/PM10/ PM2.5 tons/yr	Transfer Efficiency (%)
Cleaning Solvents, Cleaning Systems, and Parts Washers	Radial Seal Line 9	Urethane Parts Washer (Cold Cleaning Tank with 20-gallon max. capacity; 10-gallon working capacity)	RS11	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	Power Core Line PC12	Urethane Parts Washer (Cold Cleaning Tank with 20-gallon max. capacity; 10-gallon working capacity)	PC13	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%
											Totals	1.89	16,521	8.26	0	0	

Appendix A: Emissions Calculations
Interim Emissions Summary (Contd)

Company Name: Donaldson Company, Inc.
Address City IN Zip: 3260 W. State Road 28, Frankfort, Indiana 46041
SSM Interim No.: 023-40281I-00024
Reviewer: Ghassan Shalabi
Date: Sepember 13, 2018

Ink Jet Printing and Pad Printing Applications

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

Process	Line	Emission Uni 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 /PM2.5 lbs/hr	PTE PM/PM10 /PM2.5 tons/yr	Transfer Efficiency (%)
Printing Operation	Radial Seal Line 9	Filter Element Endcap Pad Printing Unit	S1	Trans Tech Thinner	7.560	0	7.560	0.020	0.0026	23.2	1.000	0.020	175	0.088	0	0	95%
Printing Operation	Radial Seal Line 9	Filter Element Endcap Pad Printing Unit	S1	Trans Tech Ink	10.825	4.5	7.361	0.020	0.0018	16.2	0.680	0.014	119	0.060	4.E-04	2.E-03	95%
Printing Operation	Radial Seal Line 9	Filter Element Endcap Inkjet Printing Unit	S1	Hitachi Ink	7.090	0.85	5.899	0.010	0.0014	12.4	0.832	0.008	73	0.036	6.E-05	3.E-04	95%
Printing Operation	Radial Seal Line 9	Filter Element Endcap Inkjet Printing Unit	S1	Hitachi 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	Power Core Line 12	Filter Element Endcap Inkjet Printing, 2 Units	S1	Hitachi Ink	7.226	0.87	5.899	0.020	0.0028	24.2	0.816	0.016	143	0.072	1.E-04	5.E-04	95%
Printing Operation	Power Core Line 12	Filter Element Endcap Inkjet Printing, 2 Units	S1	Hitachi Make-up (MEK)	6.720	0	6.720	0.084	0.0125	109.5	1.00	0.084	736	0.368	0	0	95%
											Total	**0.18**	**1614.01**	**0.81**	**0.001**	**0.003**	

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

Polyurethane Dispenses

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

Process	Line	Emission Uni	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
Adhesive, Sealant, and Glue Operation	Radial Seal Line 9	Urethane Dispense Station Number 1	RS7	Isocyanate (MDI)	10.16	-	negl**	154.2	15.2	132,952	negl**	negl**	negl**	negl**
Adhesive, Sealant, and Glue Operation	Radial Seal Line 9	Urethane Dispense Station Number 1	RS7	Polyols	8.66	-	negl**	171.5	19.8	173,480	negl**	negl**	negl**	negl**
Adhesive, Sealant, and Glue Operation	Radial Seal Line 9	Urethane Dispense Station Number 2	RS7	Isocyanate (MDI)	10.16	-	negl**	154.2	15.2	132,952	negl**	negl**	negl**	negl**
Adhesive, Sealant, and Glue Operation	Radial Seal Line 9	Urethane Dispense Station Number 2	RS7	Polyols	8.66	-	negl**	171.5	19.8	173,480	negl**	negl**	negl**	negl**
Adhesive, Sealant, and Glue Operation	Power Core Line line 12	Filter Element Elastomeric Rubber Beading Unit	PC3	Polyurethane Adhesive	12.1	-	0.0377	160.0	13.2	115,835	0.003	0.499	4,367	2.183
Adhesive, Sealant, and Glue Operation	Power Core Line line 12	Urethane Dispense Station Number 1 (1st Endcap)	PC5	Polyols	8.66	-	negl**	66.00	7.6	66,762	negl**	negl**	negl**	negl**
Adhesive, Sealant, and Glue Operation	Power Core Line line 12	Urethane Dispense Station Number 2 (1st Endcap)	PC5	Isocyanate (MDI)	10.16	-	negl**	30.00	3.0	25,866	negl**	negl**	negl**	negl**
Adhesive, Sealant, and Glue Operation	Power Core Line line 12	Urethane Dispense Station Number 1 (2nd Endcap)	PC6	Polyols	8.66	-	negl**	66.00	7.6	66,762	negl**	negl**	negl**	negl**
Adhesive, Sealant, and Glue Operation	Power Core Line line 12	Urethane Dispense Station Number 1 (2nd Endcap)	PC6	Isocyanate (MDI)	10.16	-	negl**	30.00	3.0	25,866	negl***	negl***	negl***	negl***
Adhesive, Sealant, and Glue Operation	Power Core Line line 12	Urethane Dispense Station Number 3 (Gasket)	PC11	Polyols	8.66	-	negl**	66.00	7.6	66,762	negl***	negl***	negl***	negl***
Adhesive, Sealant, and Glue Operation	Power Core Line line 12	Urethane Dispense Station Number 3 (Gasket)	PC11	Isocyanate (MDI)	10.16	-	negl**	30.00	3.0	25,866	negl***	negl***	negl***	negl***
Adhesive, Sealant, and Glue Operation	Power Core Line line 13	Urethane Dispense Left / Right Stacker	PC2	Polyols	8.5	-	negl**	53.5	6.3	55136	negl***	negl***	negl***	negl***
Adhesive, Sealant, and Glue Operation	Power Core Line line 13	Urethane Dispense Left / Right Stacker	PC2	Isocyanate (MDI)	10.16	-	negl**	25.87	2.5	22305	negl***	negl***	negl***	negl***
											Total	**0.499**	**4,367**	**2.18**

Interim Emissions Summary (Contd)

Company Name: Donaldson Company, Inc.
Address City IN Zip: 3260 W. State Road 28, Frankfort, Indiana 46041
SSM Interim No.: 023-40281I-00024
Reviewer: Ghassan Shalabi
Date: Sepember 13, 2018

Inner / Outer Liner Welding Operation

Brazing, Cutting, Torches, Soldering, Welding

Process	Line	Emission Uni Description	Emission Unit ID #	Material	PM/PM10 Emission Factor (lb/1000 lb)	Maximum Steel Throuput per unit tons/year	Number of Units	PTE PM/PM10/PM2.5 lbs/hr	PTE PM/PM10/PM2.5 tons/yr
Brazing, Cutting, Torches, Soldering, Welding	Radial Seal Line 9	Metal Liner Resistance Welders, 4 units	R1	Galvanized Expanded Metal (Steel)	0.05	12.6	4	0.00058	0.00253
							Totals	**0.0006**	**0.0025**

Polyamide and Polyolefin Hot Melt Adhesives

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

Process	Line	Emission Uni 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 /PM2.5 lbs/hr	PTE PM/PM10 /PM2.5 tons/yr	Transfer Efficiency (%)*
Filer Media Adhesive	Radial Seal Lne 9	Filter Element Outer/Inner Liner Hot-Melt Beading Unit	RS10	Hot-Melt Glue	7.344	7.344	0	106.00	14.43	126437.9	0	0	0	0	0	0	100%
Filer Media Adhesive	Radial Seal Line 9	Media Seam Seal	RS2	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%
Filter Media Adhesive	Power Core Line 12	SingleFacer Power Core Media Polyolefin Hot-Melt Beading Unit	PC1	Polyolefin	7.678	7.68	0	168.00	21.88	191674.9	0	0	0	0	0	0	100%
Filer Media Adhesive	Power Core Line 12	SingleFacer Power Core Media Polyamide Hot-Melt Beading Unit	PC1	Polyamide	8.226	8.23	0	120.00	14.59	127789.9	0	0	0	0	0	0	100%
Filer Media Adhesive	Power Core Line 12	Filter Element Fiber Side Panel To Meida Beading Unit	PC3	Hot Melt Adhesive	7.678	7.68	0	78.80	10.26	89904.7	0	0	0	0	0	0	100%
Filer Media Adhesive	Power Core Line 12	Filter Element Plastic Shell Panel to Media Beading Unit	PC3	Hot Melt Adhesive	9.189	9.19	0	26.50	2.88	25262.8	0	0	0	0	0	0	100%
											Totals	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	

*These emission units use flowcoating application.

Appendix A: Emissions Calculations
Media Treatment

Company Name: Donaldson Company, Inc.
Address City IN Zip: 3260 W. State Road 28, Frankfort, Indiana 46041
SSM No.: 023-40281-00024
SPM No. 023-40308-00024
Reviewer: Ghassan Shalabi

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%
											Totals	**0.5**	**4396.1**	**2.2**	**0.0**	**0.0**	

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

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 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
SSM No.: 023-40281-00024
SPM No. 023-40308-00024
Reviewer: Ghassan Shalabi

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, P7, RS9, PC12 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
PowerCore Line 4	P7	1201	0.005	6.0	52,604	26.3	0.005	26.3
RadialSeal Line	RS9	2000	0.005	10.0	87,600	43.8	0.005	43.8
PowerCore Line 12	PC12	1201	0.005	6.0	52,604	26.3	0.005	26.3
			Unlimited Potential to Emit =	**62.0**	**543,208**	**271.6**		**271.6**

Limited Potential to Emit - Caterpillar, Hoosier, Hybrid, Express Line, Power Core 4, Radial Seal 9 and Power Core 12

Line	Emission Unit ID#	VOC Limit (tons/yr)	High VOC Containing Filter media (lb/lb)	High VOC Limited Filter Media Usage (lbs/yr)	Formaldehyde Limited Filter Media Usage (lbs/yr)	HAP PTE Total and Single (Formaldehyde) (tons/yr)
Caterpillar Line	C1 and associated equipment	24.9	0.005	9,960,000	9,960,000	24.9
Hoosier Line	H1 and associated equipment	24.9	0.005	9,960,000	9,960,000	24.9
Hydrid Line	D4 and associated equipment	24.9	0.005	9,960,000	9,960,000	24.9
Express Line	L1 and associated equipment	24.9	0.005	9,960,000	9,960,000	24.9
Power Core Line 4	P7 and associated equipment	24.9	0.005	9,960,000	3,960,000	9.9
Radial Seal Line 9	RS9 and associated equipment	24.9	0.005	9,960,000	3,960,000	9.9
Power Core Line 12	PC12 and associated equipment	24.9	0.005	9,960,000	3,960,000	9.9
		174.3				**129.3**

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]
High VOC Containing Limited Filter Media Usage (lbs/yr) = [VOC Limit (tons/yr)] * [2000 lbs/1 ton] / [High VOC Containing Filter Media (lb/lb)]
Formaldehyde Containing Filter Media Usage = [HAP Limit (tons/yr)] * [2000 lbs/1 ton] / [Formaldehyde Containing Filter Media (lb/lb)]

Appendix A: Emissions Calculations
Mold Release

Company Name: Donaldson Company, Inc.
Address City IN Zip: 3260 W. State Road 28, Frankfort, Indiana 46041
SSM No.: 023-40281-00024
SPM No. 023-40308-00024
Reviewer: Ghassan Shalabi

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 lb/day	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	236,564	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	236,564	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	171,651	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	171,651	3.58	0	0	85%
Mold Release	Hybrid Line	Mold Release Spray Booth Unit Number 1	M1	Stoner M804 Urethane Mold Release	6.266	0	5.640	0.907	0.14	1268.1	0.90	0.82	7,152	171,651	3.58	0	0	85%
Mold Release	Hybrid Line	Mold Release Spray Booth Unit Number 2	M1	Stoner M804 Urethane Mold Release	6.266	0	5.640	0.907	0.14	1268.1	0.90	0.82	7,152	171,651	3.58	0	0	85%
Mold Release	PowerCore Line 4	Mold Release Spray Booth Unit Number 1	M1	Stoner E236 & E317 Urethane Mold Release	6.266	0	5.640	0.862	0.14	1205.2	0.95	0.82	7,174	172,166	3.59	0	0	85%
Mold Release	Radial Seal Line 9	Mold Release Spray Booth Unit Number 1	M1	Ease Release Formula 82-36 (Mold Release)	6.266	0	5.640	1.08	0.17	1510.0	0.90	0.97	8,516	204,391	4.26	0	0	85%
Mold Release	Radial Seal Line 9	Mold Release Spray Booth Unit Number 2	M1	Ease Release Formula 82-36 (Mold Release)	6.266	0	5.640	1.08	0.17	1510.0	0.90	0.97	8,516	204,391	4.26	0	0	85%
Mold Release	Power Core Line 12	Mold Release Spray Booth Unit Number 1	M1	Stoner E236 & E317 Urethane Mold Release	6.266	0	5.640	1.04	0.17	1454.1	0.95	0.99	8,655	207,717	4.33	0	0	85%
*The Molde Release Spray Booths utilize low pressure, non-atomizing spray application.								10.19										
											Totals	9.27	81183.20	1948396.9	40.59	0.00	0.00	

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, Selalant, and Glue Operation

Company Name: Donaldson Company, Inc.
Address City IN Zip: 3260 W. State Road 28, Frankfort, Indiana 46041
SSM No.: 023-40281-00024
SPM No. 023-40308-00024
Reviewer: Ghassan Shalabi

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	Hoosier Line	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	DIG Workcell	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	Express 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	Caterriller 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	Caterriller 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	Caterriller 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	Caterriller 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	Caterriller 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	Caterriller 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	Hoosier 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	Hybrid Line	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	Bulk Isocyanate/ Polyol Storage	10,000-gallon Storage Tank for Polyol	B2	BASF Elastofoam 36070R Polyol	8.66	0	negl***	942.5	108.8	953,419	negl***	negl***	negl***	negl***	0	0	100%
Adhesive, Sealant, and Glue Operation	Power Core Line	Filter Element Elastomeric Rubber Beading Unit (Side Panel CAT Shell Adhesive)	P17	Bostik SG1582-196-94 Polyurthane Adhesive	12.1	0	0.0377	160.0	13.2	115,835	0.003	0.499	4,367	2.183	0	0	100%
Adhesive, Sealant, and Glue Operation	Power Core Line	Urethane Dispense Station Number 1 (1st Endcap)	P18-1	Polyols	8.66	0	negl**	54.7	6.3	55,332	negl**	negl**	negl**	negl**	0	0	100%
Adhesive, Sealant, and Glue Operation	Power Core Line	Urethane Dispense Station Number 1 (1st Endcap)	P18-1	Isocyanate (MDI)	10.16	0	negl**	24.7	2.4	21,296	negl**	negl**	negl**	negl**	0	0	100%
Adhesive, Sealant, and Glue Operation	Power Core Line	Urethane Dispense Station Number 1 (2nd Endcap)	P18-2	Polyols	8.66	0	negl**	54.7	6.3	55,332	negl**	negl**	negl**	negl**	0	0	100%
Adhesive, Sealant, and Glue Operation	Power Core Line	Urethane Dispense Station Number 1 (2nd Endcap)	P18-2	Isocyanate (MDI)	10.16	0	negl**	24.7	2.4	21,296	negl***	negl***	negl***	negl***	0	0	100%
Adhesive, Sealant, and Glue Operation	Power Core Line	Urethane Dispense Station Number 3 (Gasket)	P18-3	Polyols	8.66	0	negl**	54.7	6.3	55,332	negl***	negl***	negl***	negl***	0	0	100%
Adhesive, Sealant, and Glue Operation	Power Core Line	Urethane Dispense Station Number 3 (Gasket)	P18-3	Isocyanate (MDI)	10.16	0	negl**	24.7	2.4	21,296	negl***	negl***	negl***	negl***	0	0	100%
Adhesive, Sealant, and Glue Operation	Radial Seal Line 9	Urethane Dispense Station Number 1	RS7	Isocyanate (MDI)	10.16	0	negl**	154.2	15.2	132,952	negl**	negl**	negl**	negl**	0	0	100%
Adhesive, Sealant, and Glue Operation	Radial Seal Line 10	Urethane Dispense Station Number 1	RS7	Polyols	8.66	0	negl**	171.5	19.8	173,480	negl**	negl**	negl**	negl**	0	0	100%
Adhesive, Sealant, and Glue Operation	Radial Seal Line 11	Urethane Dispense Station Number 2	RS7	Isocyanate (MDI)	10.16	0	negl**	154.2	15.2	132,952	negl**	negl**	negl**	negl**	0	0	100%
Adhesive, Sealant, and Glue Operation	Radial Seal Line 12	Urethane Dispense Station Number 2	RS7	Polyols	8.66	0	negl**	171.5	19.8	173,480	negl**	negl**	negl**	negl**	0	0	100%
Adhesive, Sealant, and Glue Operation	Power Core Line line 12	Filter Element Elastomeric Rubber Beading Unit	PC3	Polyurethane Adhesive	12.1	0	0.0377	160.0	13.2	115,835	0.003	0.499	4,367	2.183	0	0	100%
Adhesive, Sealant, and Glue Operation	Power Core Line line 12	Urethane Dispense Station Number 1 (1st Endcap)	PC5	Polyols	8.66	0	negl**	66.00	7.6	66,762	negl**	negl**	negl**	negl**	0	0	100%
Adhesive, Sealant, and Glue Operation	Power Core Line line 12	Urethane Dispense Station Number 2 (1st Endcap)	PC5	Isocyanate (MDI)	10.16	0	negl**	30.00	3.0	25,866	negl**	negl**	negl**	negl**	0	0	100%
Adhesive, Sealant, and Glue Operation	Power Core Line line 12	Urethane Dispense Station Number 1 (2nd Endcap)	PC6	Polyols	8.66	0	negl**	66.00	7.6	66,762	negl**	negl**	negl**	negl**	0	0	100%
Adhesive, Sealant, and Glue Operation	Power Core Line line 12	Urethane Dispense Station Number 1 (2nd Endcap)	PC6	Isocyanate (MDI)	10.16	0	negl**	30.00	3.0	25,866	negl***	negl***	negl***	negl***	0	0	100%
Adhesive, Sealant, and Glue Operation	Power Core Line line 12	Urethane Dispense Station Number 3 (Gasket)	PC11	Polyols	8.66	0	negl**	66.00	7.6	66,762	negl***	negl***	negl***	negl***	0	0	100%
Adhesive, Sealant, and Glue Operation	Power Core Line line 12	Urethane Dispense Station Number 3 (Gasket)	PC11	Isocyanate (MDI)	10.16	0	negl**	30.00	3.0	25,866	negl***	negl***	negl***	negl***	0	0	100%
Adhesive, Sealant, and Glue Operation	Power Core Line line 13	Urethane Dispense Left / Right Stacker	PC2	Polyols	8.5	0	negl**	53.5	6.3	55136	negl***	negl***	negl***	negl***	0	0	100%
Adhesive, Sealant, and Glue Operation	Power Core Line line 13	Urethane Dispense Left / Right Stacker	PC2	Isocyanate (MDI)	10.16	0	negl**	25.87	2.5	22305	negl***	negl***	negl***	negl***	0	0	100%
											Totals	**1.15**	**10,117**	**5.06**	**0**	**0**	

*These emission units use flowcoating application.

**negl = negligible. During the flowcoating application of fast cure silicone Part A and Part B are mixed together and the components react quickly to form silicone, with minimal emission of VOCs.

**negl = negligible. During the flowcoating application of urethane, component A (isocyanate) and component B (polyols) are mixed together and the components react quickly to form urethane, with minimal emission of VOCs (MDI).

***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.

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
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
						Totals	**0.009**

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 efficien
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
SSM No.: 023-40281-00024
SPM No. 023-40308-00024
Reviewer: Ghassan Shalabi

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	Cateriller 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	Mineral Spirits	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 4	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%
Cleaning Solvents, Cleaning Systems, and Parts Washers	Radial Seal Line 9	Urethane Parts Washer (Cold Cleaning Tank with 20-gallon max. capacity; 10-gallon working capacity)	RS11	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	Power Core Line 12	Urethane Parts Washer (Cold Cleaning Tank with 20-gallon max. capacity; 10-gallon working capacity)	PC13	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%
											Totals	**6.86**	**60,067**	**30.03**	**0**	**0**	

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
Cleaning Solvents, Cleaning Systems, and Parts Washers	Maintenance	Parts Washer (Cold Cleaning Tank with 30-gallon max. capacity)	F1	Mineral Spirits	0.02	0.01	8.8E-04
						Totals	**8.8E-04**

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]

Appendix A: Emissions Calculations
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
SSM No.: 023-40281-00024
SPM No. 023-40308-00024
Reviewer: Ghassan Shalabi

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 lb/day	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	Trans Tech Thinner	7.560	0	7.560	0.020	0.0026	23.2	1.000	0.020	0.480	175	0.088	0	0	95%
Printing Operation	Express Line	Filter Element Endcap Pad Printing Unit	S1	Trans Tech Ink	10.825	4.5	7.361	0.020	0.0018	16.2	0.680	0.014	0.326	119	0.060	4.E-04	2.E-03	95%
Printing Operation	Express Line	Filter Element Endcap Inkjet Printing Unit	S1	Hitachi Ink	7.090	0.85	5.899	0.010	0.0014	12.4	0.832	0.008	0.200	73	0.036	6.E-05	3.E-04	95%
Printing Operation	Express Line	Filter Element Endcap Inkjet Printing Unit	S1	Hitachi Make-up (MEK)	6.720	0	6.720	0.042	0.0063	54.8	1.000	0.042	1.008	368	0.184	0	0	95%
Printing Operation	Caterpiller Line	Filter Element Endcap Pad Printing Unit	S1	Trans Tech Thinner	7.560	0	7.560	0.020	0.0026	23.2	1.00	0.020	0.480	175	0.088	0	0	95%
Printing Operation	Caterpiller Line	Filter Element Endcap Pad Printing Unit	S1	Trans Tech Ink	10.825	4.5	7.361	0.020	0.0018	16.2	0.680	0.014	0.326	119	0.060	4.E-04	2.E-03	95%
Printing Operation	Caterpiller Line	Filter Element Endcap Inkjet Printing Unit	S1	Hitachi Ink	7.226	0.87	5.899	0.010	0.0014	12.1	0.816	0.008	0.196	72	0.036	6.E-05	3.E-04	95%
Printing Operation	Caterpiller Line	Filter Element Endcap Inkjet Printing Unit	S1	Hitachi Make-up (MEK)	6.720	0	6.720	0.042	0.0063	54.8	1.00	0.042	1.008	368	0.184	0	0	95%
Printing Operation	Hoosier Line	Filter Element Endcap Inkjet Printing, 2 Units	S1	Hitachi Ink	7.226	0.87	5.899	0.020	0.0028	24.2	0.816	0.016	0.392	143	0.072	1.E-04	5.E-04	95%
Printing Operation	Hoosier Line	Filter Element Endcap Inkjet Printing, 2 Units	S1	Hitachi Make-up (MEK)	6.720	0	6.720	0.084	0.0125	109.5	1.00	0.084	2.016	736	0.368	0	0	95%
Printing Operation	Hybrid Line	Filter Element Endcap Pad Printing Unit	S1	Trans Tech Thinner	7.560	0	7.560	0.020	0.0026	23.2	1.00	0.020	0.480	175	0.088	0	0	95%
Printing Operation	Hybrid Line	Filter Element Endcap Pad Printing Unit	S1	Trans Tech Ink	10.825	4.5	7.361	0.020	0.0018	16.2	0.680	0.014	0.326	119	0.060	4.E-04	2.E-03	95%
Printing Operation	Hybrid Line	Filter Element Endcap Inkjet Printing Unit	S1	Hitachi Ink	7.226	0.87	5.899	0.010	0.0014	12.1	0.816	0.008	0.196	72	0.036	6.E-05	3.E-04	95%
Printing Operation	Hybrid Line	Filter Element Endcap Inkjet Printing Unit	S1	Hitachi Make-up (MEK)	6.720	0	6.720	0.042	0.0063	54.8	1.000	0.042	1.008	368	0.184	0	0	95%
Printing Operation	Presses and Shears	Prepaint Shear Liner Printing Unit (Ultra-Violet Light)	S1	Hitachi Ink	8.339	0	7.361	0.102	0.0122	107.1	0.8827	9.0E-02	2.161	789	0	0	0	95%
Printing Operation	DIG Workcell	Filter Element Endcap Inkjet Printing Unit	S1	Hitachi Ink	7.226	0.87	5.899	0.010	0.0014	12.1	0.816	0.008	0.196	72	0.036	6.E-05	3.E-04	95%
Printing Operation	DIG Workcell	Filter Element Endcap Inkjet Printing Unit	S1	Hitachi Make-up (MEK)	6.720	0	6.720	0.042	0.0063	54.8	1.00	0.042	1.008	368	0.184	0	0	95%
Printing Operation	Radial Seal Line 9	Filter Element Endcap Pad Printing Unit	S1	Trans Tech Thinner	7.560	0	7.560	0.020	0.0026	23.2	1.000	0.020	0.480	175	0.088	0	0	95%
Printing Operation	Radial Seal Line 9	Filter Element Endcap Pad Printing Unit	S1	Trans Tech Ink	10.825	4.5	7.361	0.020	0.0018	16.2	0.680	0.014	0.326	119	0.060	4.E-04	2.E-03	95%
Printing Operation	Radial Seal Line 9	Filter Element Endcap Inkjet Printing Unit	S1	Hitachi Ink	7.090	0.85	5.899	0.010	0.0014	12.4	0.832	0.008	0.200	73	0.036	6.E-05	3.E-04	95%
Printing Operation	Radial Seal Line 9	Filter Element Endcap Inkjet Printing Unit	S1	Hitachi Make-up (MEK)	6.720	0	6.720	0.042	0.0063	54.8	1.000	0.042	1.008	368	0.184	0	0	95%
Printing Operation	Power Core Line 12	Filter Element Endcap Inkjet Printing, 2 Units	S1	Hitachi Ink	7.226	0.87	5.899	0.020	0.0028	24.2	0.816	0.016	0.392	143	0.072	1.E-04	5.E-04	95%
Printing Operation	Power Core Line 12	Filter Element Endcap Inkjet Printing, 2 Units	S1	Hitachi Make-up (MEK)	6.720	0	6.720	0.084	0.0125	109.5	1.00	0.084	2.016	736	0.368	0	0	95%

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

0.730

Totals	0.68		5,924	2.567	2.E-03	1.E-02

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]

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
SSM No.: 023-40281-00024
SPM No. 023-40308-00024
Reviewer: Ghassan Shalabi

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	Trans Tech Thinner	**0.020**	**0.05**	**0.004**						
Printing Operation	Express Line	Filter Element Endcap Pad Printing Unit	S1	Trans Tech Ink	**0.020**								
Printing Operation	Express Line	Filter Element Endcap Inkjet Printing Unit	S1	Hitachi Ink	**0.010**								
Printing Operation	Caterpiller Line	Filter Element Endcap Pad Printing Unit	S1	Trans Tech Thinner	**0.020**	**0.05**	**0.004**						
Printing Operation	Caterpiller Line	Filter Element Endcap Pad Printing Unit	S1	Trans Tech Ink	**0.020**								
Printing Operation	Caterpiller Line	Filter Element Endcap Inkjet Printing Unit	S1	Hitachi Ink	**0.010**								
Printing Operation	Hoosier Line	Filter Element Endcap Inkjet Printing, 2 Units	S1	Hitachi Ink	**0.010**								
Printing Operation	Hybrid Line	Filter Element Endcap Pad Printing Unit	S1	Trans Tech Thinner	**0.020**	**0.05**	**0.004**						
Printing Operation	Hybrid Line	Filter Element Endcap Pad Printing Unit	S1	Trans Tech Ink	**0.020**								
Printing Operation	Hybrid Line	Filter Element Endcap Inkjet Printing Unit	S1	Hitachi Ink	**0.010**								
Printing Operation	DIG Workcell	Filter Element Endcap Inkjet Printing Unit	S1	Hitachi Ink	**0.010**								
Printing Operation	PowerCore Line 7	Filter Element Endcap Inkjet Printing Unit	S1	Hitachi Ink	**0.010**								
Printing Operation	Radial Seal Line 9	Filter Element Endcap Pad Printing Unit	S1	Trans Tech Thinner	0.020								
Printing Operation	Radial Seal Line 9	Filter Element Endcap Pad Printing Unit	S1	Trans Tech Ink	0.020								
Printing Operation	Radial Seal Line 9	Filter Element Endcap Inkjet Printing Unit	S1	Hitachi Ink	0.010								
Printing Operation	Radial Seal Line 9	Filter Element Endcap Inkjet Printing Unit	S1	Hitachi Make-up (MEK)	0.042								
Printing Operation	Power Core Line 12	Filter Element Endcap Inkjet Printing, 2 Units	S1	Hitachi Ink	0.020								
Printing Operation	Power Core Line 12	Filter Element Endcap Inkjet Printing, 2 Units	S1	Hitachi Make-up (MEK)	0.084								
				Totals			**0.013**		**0.000**		**0.000**		**0.000**

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
SSM No.: 023-40281-00024
SPM No. 023-40308-00024
Reviewer: Ghassan Shalabi

Media Ink Marking

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 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%
Media Ink Marking	Radial Seal	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%
											Totals	**3.3E-03**	**28.9**	**1.4E-02**	**1.4E-02**	**6.1E-02**	

*The Media Ink Marking Units use pneumatic spray application

Metal Working Equipment Lubrication

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 (%)
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	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%
											Totals	**0.71**	**6197**	**3.10**	**0.0E+00**	**0.0E+00**	

*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 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 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
SSM No.: 023-40281-00024
SPM No. 023-40308-00024
Reviewer: Ghassan Shalabi

Process	Line	Emission Unit Description	Emission Unit ID #	Material	Factor (lb/1000 lb)*	per unit tons/year	of Units	PM/PM10/PM2.5 lbs/hr	PM/PM10/P2.5 tons/yr
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	Radial Seal Line 9	Metal Liner Resistance Welders, 4 units	R1	Galvanized Expanded Metal (Steel)	0.05	12.6	4	0.00058	0.00253
							Totals	**2.2E-03**	**9.5E-03**

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 ollutants. 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.

Maximum Steel Thoughput per unit (tons/year) = [Volume of liner steel (in3/liner)] * [ft3/ 12^3 in3)] * [Density of steel (lb/ft3)] * [Maximum throughput of liners per year per unit] * [ton/2000 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

PTE of PM/PM10 (lbs/hr) = [PM/PM10 Emission Factor (lb/ton)] * [Maximum Steel Thoughput per unit (tons/year)] * [year/8760 hours] * [Number of Units]

PTE of PM/PM10 (tons/year) = [PTE of PM/PM10 (lbs/hr)] * [ton/2000 lbs] * [8760 hours/year]

Media Trimming (C9) controll by Dust Collector (A1)

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

Appendix A: Emissions Calculations
Filter Media Adhesive

Company Name: Donaldson Company, Inc.
Address City IN Zip: 3260 W. State Road 28, Frankfort, Indiana 46041
SSM No.: 023-40281-00024
SPM No. 023-40308-00024
Reviewer: Ghassan Shalabi

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 Silconized 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	Bostik M2571	7.344	7.344	0	106.00	14.43	126437.9	0	0	0	0	0	0	100%
Filer Media Adhesive	Caterpiller Line	Filter Element Outer/Inner Liner Hot-Melt Beading Unit	C8	Bostik M2571	7.344	7.344	0	106.00	14.43	126437.9	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)	8.345	8.345	0	56.5	6.77	59309.8	0	0	0	0	0	0	100%
Filer Media Adhesive	Hoosier Line	Filter Element Outer/Inner Liner Polyolefin Beading Unit	H12	Bostik M2751	7.344	7.344	0	106.0	14.43	126440.0	0	0	0	0	0	0	100%
Filer Media Adhesive	Hybrid Line	Filter Element Outer/Inner Liner Polyamide Beading Unit	D18	Bostik M2571	7.344	7.344	0	168.0	22.88	200395.5	0	0	0	0	0	0	100%
Filer Media Adhesive	PowerCore Line	SingleFacer PowerCore Media Polyamide Hot-Melt Seal Bead	P8	Bostik H9389-CE-1	7.678	7.678	0	168.0	21.88	191674.9	0	0	0	0	0	0	100%
Filer Media Adhesive	PowerCore Line	SingleFacer PowerCore Media Polyamide Hot-Melt Tack Bead	P8	HB Fuller 6614 Polymide Hot-Melt Adhesive	8.226	8.226	0	120.0	14.59	127789.9	0	0	0	0	0	0	100%
Filer Media Adhesive	PowerCore Line	Filter Element Centerboard to Media Beading Unit	P19	Bostik H9389-CE-1	7.678	7.678	0	10.3	1.34	11751.5	0	0	0	0	0	0	100%
Filer Media Adhesive	PowerCore Line	Filter Element Centerboard to Media Beading Unit	P21	Bostik H9389-CE-1	7.678	7.678	0	2.9	0.38	3308.8	0	0	0	0	0	0	100%
Filer Media Adhesive	PowerCore Line	Filter Element Fiber Side Panel to Media Beading Unit	P22	Bostik H9389-CE-1	7.678	7.678	0	78.8	10.26	89908.3	0	0	0	0	0	0	100%
Filer Media Adhesive	PowerCore Line	Filter Element Plastic Shell Panel to Media Beading Unit	P23	Bostik SG1582-196-94	9.180	9.180	0	26.5	2.89	25288.0	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	Caterpiller 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%
Filer Media Adhesive	Radial Seal Lne 9	Filter Element Outer/Inner Liner Hot-Melt Beading Unit	RS10	Hot-Melt Glue	7.344	7.344	0	106.00	14.43	126437.9	0	0	0	0	0	0	100%
Filer Media Adhesive	Radial Seal Line 9	Media Seam Seal	RS2	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%
Filter Media Adhesive	Power Core Line 12	SingleFacer Power Core Media Polyolefin Hot-Melt Beading Unit	PC1	Polyolefin	7.678	7.68	0	168.00	21.88	191674.9	0	0	0	0	0	0	100%
Filer Media Adhesive	Power Core Line 12	SingleFacer Power Core Media Polyamide Hot-Melt Beading Unit	PC1	Polyamide	8.226	8.23	0	120.00	14.59	127789.9	0	0	0	0	0	0	100%
Filer Media Adhesive	Power Core Line 12	Filter Element Fiber Side Panel To Meida Beading Unit	PC3	Hot Melt Adhesive	7.678	7.68	0	78.80	10.26	89904.7	0	0	0	0	0	0	100%
Filer Media Adhesive	Power Core Line 12	Filter Element Plastic Shell Panel to Media Beading Unit	PC3	Hot Melt Adhesive	9.189	9.19	0	26.50	2.88	25262.8	0	0	0	0	0	0	100%

*These emission units use flowcoating application.

Totals	0.06	488	0.24	0	0

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 Silconized Acrylic Sealant	4.66	0.006	0.12
						Totals	0.12

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

Appendix A: Emission Calculations
Emergency Reciprocating Internal Combustion Engines - Diesel Fuel

Company Name: Donaldson Company, Inc.
Address City IN Zip: 3260 W. State Road 28, Frankfort, Indiana 46041
SSM No.: 023-40281-00024
SPM No. 023-40308-00024
Reviewer: Ghassan Shalabi

Emissions calculated based on output rating (hp)

Output Horsepower Rating (hp)	118.0
Maximum Hours Operated per Year	500
Potential Throughput (hp-hr/yr)	59,000

	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/hp-hr	0.0022	0.0022	0.0022	0.0021	0.0310	0.0025	0.0067
Potential Emission in tons/	0.06	0.06	0.06	0.06	0.91	0.07	0.20

*PM and PM2.5 emission factors are assumed to be equivalent to PM10 emission factors. No information was given regarding which method was used to determine the factor or the fraction of PM10 which is condensable.

Hazardous Air Pollutants (HAPs)

	Pollutant							
	Benzene	Toluene	Xylene	1,3-Butadiene	Formaldehyde	Acetaldehyde	Acrolein	Total PAH HAPs***
Emission Factor in lb/hp-hr	6.53E-06	2.86E-06	2.00E-06	2.74E-07	8.26E-06	5.37E-06	6.48E-07	1.18E-06
Potential Emission in tons/	1.93E-04	8.45E-05	5.89E-05	8.07E-06	2.44E-04	1.58E-04	1.91E-05	3.47E-05

***PAH = Polyaromatic Hydrocarbon (PAHs are considered HAPs, since they are considered Polycyclic Organic Matter)
****Emission factors in lb/hp-hr were calculated using emission factors in lb/MMBtu and a brake specific fuel consumption of 7,000 Btu / hp-hr (AP-42 Table 3.3-1).

Potential Emission of Total HAPs (tons/yr)	**8.00E-04**

Methodology

Emission Factors are from AP 42 (Supplement B 10/96) Tables 3.4-1 , 3.4-2, 3.4-3, and 3.4-4.
Potential Throughput (hp-hr/yr) = [Output Horsepower Rating (hp)] * [Maximum Hours Operated per Year]
Potential Emission (tons/yr) = [Potential Throughput (hp-hr/yr)] * [Emission Factor (lb/hp-hr)] / [2,000 lb/ton]

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
SSM No.: 023-40281-00024
SPM No. 023-40308-00024
Reviewer: Ghassan Shalabi

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
	Combined Total Heat Input Capacity	Potential Throughput	Potential Emission tons/yr					
Emission Unit	MMBtu/hr	MMCF/yr	PM*	PM10*	SO2	NOx**	VOC	CO
Natural Gas Combustion	8.643	75.71	7.2E-02	0.288	2.3E-02	3.786	0.208	3.180
Totals	**8.64**		**7.2E-02**	**0.288**	**0.023**	**3.786**	**0.208**	**3.180**

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
	Potential Emission tons/yr									
Emission Unit	Benzene	DCB	Formaldehyde	Hexane	Toluene	Pb	Cd	Cr	Mn	Ni
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
Totals	**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**

*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**
SSM Interim No.: **023-40281I-00024**
Reviewer: **Ghassan Shalabi**
Date: **Sepember 13, 2018**

	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

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We Protect Hoosiers and Our Environment.
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(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Eric J. Holcomb
Governor

Bruno L. Pigott
Commissioner

November 5, 2018

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

Re: Public Notice
Donaldson Company, Inc.
Permit Level: Title V SSM (Minor PSD) and
Title V SPM
Permit Number: 023-40281-00024 and
023-40308-00024

Dear Mr. Crenshaw:

Enclosed is a copy of your draft Title V Significant Source Modification (Minor PSD) and draft Title V Significant Permit Modification, Technical Support Document, emission calculations, and the Public Notice which will be printed in your local newspaper.

The Office of Air Quality (OAQ) has prepared two versions of the Public Notice Document. The abbreviated version will be published in the newspaper, and the more detailed version will be made available on the IDEM's website and provided to interested parties. Both versions are included for your reference. The OAQ has requested that The Times in Frankfort, Indiana publish the abbreviated version of the public notice no later than November 7, 2018. You will not be responsible for collecting any comments, nor are you responsible for having the notice published in the newspaper.

OAQ has submitted the draft permit package to the Frankfort Community/Clinton County Contractual Library, 208 West Clinton Street in Frankfort, Indiana. As a reminder, you are obligated by 326 IAC 2-1.1-6(c) to place a copy of the complete permit application at this library no later than ten (10) days after submittal of the application or additional information to our department. We highly recommend that even if you have already placed these materials at the library, that you confirm with the library that these materials are available for review and request that the library keep the materials available for review during the entire permitting process.

Please review the enclosed documents carefully. This is your opportunity to comment on the draft permit and notify the OAQ of any corrections that are needed before the final decision. Questions or comments about the enclosed documents should be directed to Ghassan Shalabi, Indiana Department of Environmental Management, Office of Air Quality, 100 N. Senate Avenue, Indianapolis, Indiana, 46204 or call (800) 451-6027, and ask for extension 3-7622 or dial (317) 233-7622.

Sincerely,

John F. Jackson

John F. Jackson
Permits Branch
Office of Air Quality

Enclosures
PN Applicant Cover Letter 1/9/2017

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Eric J. Holcomb
Governor

Bruno L. Pigott
Commissioner

ATTENTION: PUBLIC NOTICES, LEGAL ADVERTISING

November 5, 2018

The Times
251 East Clinton Street
P.O. Box 9
Frankfort, Indiana 46041

Enclosed, please find one Indiana Department of Environmental Management Notice of Public Comment for Donaldson Company, Inc., Clinton County, Indiana.

Since our agency must comply with requirements which call for a Notice of Public Comment, we request that you print this notice one time, no later than November 7, 2018.

Please send the invoice, notarized form, clippings showing the date of publication to Bo Liu, at the Indiana Department of Environmental Management, Accounting, Room N1340, 100 North Senate Avenue, Indianapolis, Indiana, 46204.

To ensure proper payment, please reference account # 100174737.

We are required by the Auditor's Office to request that you place the Federal ID Number on all claims. If you have any conflicts, questions, or problems with the publishing of this notice or if you do not receive complete public notice information for this notice, please call John Jackson at 800-451-6027 and ask for extension 3-1449 or dial 317-233-1449.

Sincerely,

John F. Jackson

John F. Jackson
Permit Branch
Office of Air Quality

Permit Level: Title V Significant Permit Modification and
Title V Significant Source Modification (Minor PSD)
Permit Number: 023-40308-00024 and 023-40281-00024

Enclosure

PN Newspaper Letter 8/22/2018

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Eric J. Holcomb
Governor
Bruno L. Pigott
Commissioner

November 5, 2018

To: Frankfort Community/Clinton County Contractual Library

From: Jenny Acker, Branch Chief
Permits Branch
Office of Air Quality

Subject: **Important Information to Display Regarding a Public Notice for an Air Permit**

Applicant Name: Donaldson Company, Inc.
Permit Number: 023-40281-0024 and 023-40308-00024

Enclosed is a copy of important information to make available to the public. This proposed project is regarding a source that may have the potential to significantly impact air quality. Librarians are encouraged to educate the public to make them aware of the availability of this information. The following information is enclosed for public reference at your library:

- Notice of a 30-day Period for Public Comment
- Request to publish the Notice of 30-day Period for Public Comment
- Draft Permit and Technical Support Document

You will not be responsible for collecting any comments from the citizens. Please refer all questions and request for the copies of any pertinent information to the person named below.

Members of your community could be very concerned in how these projects might affect them and their families. **Please make this information readily available until you receive a copy of the final package.**

If you have any questions concerning this public review process, please contact Joanne Smiddie-Brush, OAQ Permits Administration Section at 1-800-451-6027, extension 3-0185. Questions pertaining to the permit itself should be directed to the contact listed on the notice.

Enclosures
PN Library 1/9/2017

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Eric J. Holcomb
Governor

Bruno L. Pigott
Commissioner

Notice of Public Comment

November 5, 2018
Donaldson Company, Inc.
023-40281-00024 and 023-40308-00024

Dear Concerned Citizen(s):

You have been identified as someone who could potentially be affected by this proposed air permit. The Indiana Department of Environmental Management, in our ongoing efforts to better communicate with concerned citizens, invites your comment on the draft permit.

Enclosed is a Notice of Public Comment, which has been placed in the Legal Advertising section of your local newspaper. The application and supporting documentation for this proposed permit have been placed at the library indicated in the Notice. These documents more fully describe the project, the applicable air pollution control requirements and how the applicant will comply with these requirements.

If you would like to comment on this draft permit, please contact the person named in the enclosed Public Notice. Thank you for your interest in the Indiana's Air Permitting Program.

Please Note: *If you feel you have received this Notice in error, or would like to be removed from the Air Permits mailing list, please contact Patricia Pear with the Air Permits Administration Section at 1-800-451-6027, ext. 3-6875 or via e-mail at PPEAR@IDEM.IN.GOV. If you have recently moved and this Notice has been forwarded to you, please notify us of your new address and if you wish to remain on the mailing list. Mail that is returned to IDEM by the Post Office with a forwarding address in a different county will be removed from our list unless otherwise requested.*

Enclosure
PN AAA Cover Letter 1/9/2017

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Eric J. Holcomb
Governor

Bruno L. Pigott
Commissioner

AFFECTED STATE NOTIFICATION OF PUBLIC COMMENT PERIOD
DRAFT INDIANA AIR PERMIT

November 5, 2018

A 30-day public comment period has been initiated for:

Permit Number: **023-40281-00024 and 023-40308-00024**
Applicant Name: **Donaldson Company, Inc.**
Location: **Frankfort, Clinton County, Indiana**

The public notice, draft permit and technical support documents can be accessed via the **IDEM Air Permits Online** site at:
http://www.in.gov/ai/appfiles/idem-caats/

Questions or comments on this draft permit should be directed to the person identified in the public notice by telephone or in writing to:

Indiana Department of Environmental Management
Office of Air Quality, Permits Branch
100 North Senate Avenue
Indianapolis, IN 46204

Questions or comments regarding this email notification or access to this information from the EPA Internet site can be directed to Chris Hammack at chammack@idem.IN.gov or (317) 233-2414.

Mail Code 61-53

IDEM Staff	JJACKSON 11/5/2018 Donaldson Company, Inc 023-40281-00024 and 023-40308-00024 (draft)		AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender	▶	Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204	Type of Mail: **CERTIFICATE OF MAILING ONLY**

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee Remarks
1		Bruce Crenshaw Donaldson Company, Inc 3260 W SR 28 Frankfort IN 46041 (Source CAATS)									
2		Dolan Bartels Plant Manager Donaldson Company, Inc 3260 W SR 28 Frankfort IN 460418777 *(RO CAATS)*									
3		Frankfort City Council and Mayors Office 301 E. Clinton Street Frankfort IN 46041 *(Local Official)*									
4		Frankfort Community Public 208 W Clinton Frankfort IN 46041-1811 *(Library)*									
5		Clinton County Health Department 400 E Clinton Street Frankfort IN 46041 *(Health Department)*									
6		Clinton County Board of Commissioners 125 Courthouse Square Frankfort IN 46041-1942 *(Local Official)*									
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