



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: April 20, 2010

RE: R.R. Donnelley & Sons Company / 107-28887-00052

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

Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3 and IC 13-15-6-1 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

Enclosures
FNPER.dot12/03/07



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Ms. Kimm Wheeler
R.R. Donnelley and Sons Company
600 State Road 32 West
Crawfordsville, Indiana 47933

April 20, 2010

Re: 107-28887-00052
Significant Source Modification to
Part 70 Renewal No.: T107-23664-00052

Ms. Wheeler:

R.R. Donnelley and Sons Company was issued Part 70 Operating Permit Renewal No. 107-23664-00052 on November 7, 2008, for a book printing and binding source. A letter requesting changes to this permit was received on January 19, 2010. Pursuant to 326 IAC 2-7-10.5(f), the following emission units are approved for construction at the source:

- (a) One (1) Heidelberg heatset web offset lithographic printing press, identified as Press 263, with VOC emissions controlled by a natural gas-fired regenerative thermal oxidizer system, exhausting through stacks SP-5T(S), SP-7A(S), and/or SP-7B(S), maximum line speed: 1,200 feet per minute, maximum printing width: 34 inches, with associated in-line equipment;
- (b) One (1) Heidelberg heatset web offset lithographic printing press, identified as Press 264, with VOC emissions controlled by a natural gas-fired regenerative thermal oxidizer system, exhausting through stacks SP-5T(S), SP-7A(S), and/or SP-7B(S), maximum line speed: 1,200 feet per minute, maximum printing width: 34 inches, with associated in-line equipment; and
- (c) One (1) nonheatset sheetfed offset lithographic printing press, identified as Press 252, with a maximum capacity of 13,000 sheets (14.56 million square inches) per hour, exhausting to stack SP-10C.

The following construction conditions are applicable to the proposed project:

General Construction Conditions

1. The data and information supplied with the application shall be considered part of this source modification approval. Prior to any proposed change in construction which may affect the potential to emit (PTE) of the proposed project, the change must be approved by the Office of Air Quality (OAQ).
2. This approval to construct does not relieve the permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13 17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.
3. Effective Date of the Permit
Pursuant to IC 13-15-5-3, this approval becomes effective upon its issuance.

4. Pursuant to 326 IAC 2-1.1-9 and 326 IAC 2-7-10.5(i), the Commissioner may revoke this approval if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.
5. All requirements and conditions of this construction approval shall remain in effect unless modified in a manner consistent with procedures established pursuant to 326 IAC 2.
6. Pursuant to 326 IAC 2-7-10.5(l), the emission units constructed under this approval shall not be placed into operation prior to revision of the source's Part 70 Operating Permit to incorporate the required operation conditions,

This significant source modification authorizes construction of the new emission units. Operating conditions shall be incorporated into the Part 70 Operating Permit as a significant permit modification in accordance with 326 IAC 2-7-10.5(l)(2) and 326 IAC 2-7-12. Operation is not approved until the significant permit modification has been issued.

This decision is subject to the Indiana Administrative Orders and Procedures Act – IC 4-21.5-3-5. If you have any questions on this matter, please contact Stephanie Wilkerson, OAQ, 100 North Senate Avenue, MC 61-53, Room 1003, Indianapolis, Indiana, 46204-2251, or call at (800) 451-6027, and ask for Stephanie Wilkerson or extension 4-5329, or dial (317) 234-5329.

Sincerely,



Chrystal Wagner, Section Chief
Permits Branch
Office of Air Quality

Attachments

sjw

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



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Significant Source Modification to a Part 70 Source OFFICE OF AIR QUALITY

R. R. Donnelley & Sons Company
1009 Sloan Street
Crawfordsville, Indiana 47933

(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.

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. This permit also addresses certain new source review requirements for existing equipment and is intended to fulfill the new source review procedures pursuant to 326 IAC 2-7-10.5, applicable to those conditions.

Significant Source Modification No. 107-28887-00052	
Issued by:  Chrystal Wagner, Section Chief Permits Branch Office of Air Quality	Issuance Date: April 20, 2010

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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, A.3, and A.4 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

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

The Permittee owns and operates a stationary book printing and binding source.

Source Address:	1009 Sloan Street, Crawfordsville, Indiana 47933
Mailing Address:	1009 Sloan Street, Crawfordsville, Indiana 47933
General Source Phone Number:	765 – 364 – 2787
SIC Code:	2732
County Location:	Montgomery
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Operating Permit Program Major Source, under PSD Rules Major Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Part 70 Source Definition [326 IAC 2-7-1(22)]

This stationary book printing and binding source consists of two (2) plants:

- (a) North Plant is located at 1009 Sloan St., Crawfordsville, IN; and
- (b) South Plant is located at State Road 32 West, Crawfordsville, IN.

These two (2) plants are located adjacent to each other, separated by a public road and a railroad right of way, have the same SIC codes and are owned by one (1) company. Therefore, they will be considered one (1) major source, as defined by 326 IAC 2-7-1(22).

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

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

North Plant:

- (a) Four (4) natural gas-fired boilers, each capable of combusting propane as backup, heat input capacity: 20.9 million British thermal units per hour, each, described as follows:
 - (1) Boiler #1(N), constructed in 1956, exhausting through stack SB-4A(N).
 - (2) Boiler #2(N), constructed in 1956, exhausting through stack SB-4B(N).
 - (3) Boiler #3(N), constructed in 1962, exhausting through stack SB-4C(N).
 - (4) Boiler #4(N), constructed in 1972, exhausting through stack SB-4D(N).
- (b) One (1) natural gas-fired boiler, identified as Boiler #5(N), constructed in 1975, combusting propane as backup, exhausting through stack SB-4E(N), heat input capacity: 2.56 million British thermal units per hour.
- (c) Four (4) paper trimming and baling processes, process weight rate: 4 tons of paper trim

per hour, each, described as follows:

- (1) Paper Trim #1(N), controlled by Paper Trim Cyclone #1(N), exhausting through stack SBP-5H(N).
 - (2) Paper Trim #2(N), controlled by Paper Trim Cyclone #2(N), exhausting through stack SBP-5I(N).
 - (3) Paper Trim #3(N), controlled by Paper Trim Cyclone #3(N), exhausting through stack SBP-5J(N).
 - (4) Paper Trim #4(N), controlled by Paper Trim Cyclone #4(N), exhausting through stack SBP-5K(N).
- (d) Two (2) Paper Dust Collectors:
- (1) Dust Collector #1(N) consists of a baghouse for particulate control and is exhausted through SD-6A(N).
 - (2) Dust Collector #2(N) consists of a baghouse for particulate control and is exhausted through SD-6B(N).
- (e) One (1) Mitsubishi web offset lithographic printing press, identified as Press 268, constructed in 1993, VOC emissions controlled by a natural gas-fired regenerative thermal oxidizer, identified as North Oxidizer, exhausting through stack SP-5Y(N) when operating in heatset mode, exhausting to vent SP-5AA(N) in nonheatset mode, with two (2) units and two (2) webs, maximum line speed: 1,600 feet per minute, maximum printing width: 64 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (f) One (1) Toshiba web offset lithographic printing press, identified as Press 269, constructed in 1993, VOC emissions controlled by a natural gas-fired regenerative thermal oxidizer, identified as North Oxidizer, exhausting through stack SP-5Y(N) when operating in heatset mode, exhausting through vent SP-5BB(N) in nonheatset mode, with four (4) units and two (2) webs, maximum line speed: 1,600 feet per minute, maximum printing width: 50 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (g) One (1) Hantscho web offset lithographic printing press, identified as Press 240, constructed in 1988, exhausting through stack SP-5R(N), with two (2) units and two (2) webs, maximum line speed: 1,000 feet per minute, maximum printing width: 33 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (h) One (1) KBA Compacta web offset lithographic printing press, identified as Press 281, constructed in 1991, exhausting through stack SP-5S(N), with two (2) units and two (2) webs, maximum line speed: 1,100 feet per minute, maximum printing width: 26 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (i) One (1) Hantscho web offset lithographic printing press, identified as Press 245, constructed in 1989, exhausting through stack SP-5Q(N), with four (4) units and two (2) webs, maximum line speed: 1,000 feet per minute, maximum printing width: 33 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (j) One (1) Timson web offset lithographic printing press, identified as Press 242, constructed in 1995, exhausting through stack SP-5Z(N), with one (1) unit and one (1) web, maximum

line speed: 1,200 feet per minute, maximum printing width: 47 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.

- (k) One (1) Timson web offset lithographic printing press, identified as Press 243, constructed in 1995, exhausting through stack SP-5AA(N), with one (1) unit and one (1) web, maximum line speed: 1,200 feet per minute, maximum printing width: 47 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (l) One (1) Harris web offset lithographic printing press, identified as Press 285, constructed in 1976, exhausting through stack SP-5K(N), with two (2) units and two (2) webs, maximum line speed: 825 feet per minute, maximum printing width: 26 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (m) One (1) Harris web offset lithographic printing press, identified as Press 286, constructed in 1979, exhausting through stack SP-5L(N), with two (2) units and two (2) webs, maximum line speed: 825 feet per minute, maximum printing width: 31 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (n) One (1) Harris web offset lithographic printing press, identified as Press 287, constructed in 1979, exhausting through stack SP-5M(N), with four (4) units and two (2) webs, maximum line speed: 825 feet per minute, maximum printing width: 31 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.

South Plant:

- (o) Three (3) natural gas-fired boilers, combusting propane as backup, heat input capacity: 25.1 million British thermal units per hour, each, described as follows:
 - (1) Boiler #1(S), constructed in 1964, exhausting through stack SB-4A(S).
 - (2) Boiler #2(S), constructed in 1964, exhausting through stack SB-4B(S).
 - (3) Boiler #3(S), constructed in 1975, exhausting through stack SB-4C(S).
- (p) Four (4) paper trimming and baling processes, each constructed in 1976, process weight rate: 4 of paper trim tons per hour, each, described as follows:
 - (1) Paper Trim #1(S), controlled by Paper Trim Cyclone #1(S), exhausting through stack SBP-5E(S).
 - (2) Paper Trim #2(S), controlled by Paper Trim Cyclone #2(S), exhausting through stack SBP-5E(S).
 - (3) Paper Trim #3(S), controlled by Paper Trim Cyclone #3(S), exhausting through stack SBP-5E(S).
 - (4) Paper Trim #4(S), controlled by Paper Trim Cyclone #4(S), exhausting through stack SBP-5E(S).
- (q) One (1) Paper Dust Collector:
 - (1) Dust Collector #1(S) consists of two (2) cyclones each followed by a baghouse (2 total) for particulate control and are exhausted through SD-6A(S) and new

exhaust point SD6C(S).

- (r) One (1) Mitsubishi web offset lithographic printing press, identified as Press 262, constructed in 1992, VOC emissions controlled by a natural gas-fired regenerative thermal oxidizer system, exhausting through stacks SP-5T(S), SP-7A(S) and/or SP-7B(S) in heatset mode or Vent SP-5N(S) in nonheatset mode, with four (4) units and two (2) webs, maximum line speed: 807 feet per minute, maximum printing width: 33 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (s) One (1) Hantscho web offset lithographic printing press, identified as Press 270, constructed in 1979, exhausting through stack SP-5F(S), with four (4) units and two (2) webs, maximum line speed: 807 feet per minute, maximum printing width: 33 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (t) One (1) Cottrell web offset lithographic printing press, identified as Press 272, constructed in 1973, exhausting through stack SP-5D(S), with four (4) units and two (2) webs, maximum line speed: 1,000 feet per minute, maximum printing width: 64 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (u) One (1) Mitsubishi web offset lithographic printing press, identified as Press 273, constructed in 1991, VOC emissions controlled by a natural gas-fired regenerative thermal oxidizer system, exhausting through Stack SP-5T(S), SP-7A(S) and/or SP-7B(S) in heatset mode or vent SP-5L(S) in nonheatset mode, with four (4) units and two (2) webs, maximum line speed: 1,615 feet per minute, maximum printing width: 64 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (v) One (1) Cottrell web offset lithographic printing press, identified as Press 276, constructed in 1976, exhausting through stack SP-5E(S), with four (4) units and two (2) webs, maximum line speed: 1,200 feet per minute, maximum printing width: 64 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (w) One (1) Toshiba web offset lithographic printing press, identified as Press 260, constructed in 1986, VOC emissions controlled by a natural gas-fired regenerative thermal oxidizer system, exhausting through Stack SP-5T(S), SP-7A(S) and/or SP-7B(S) in heatset mode or vent SP-5I(S) in nonheatset mode, with four (4) units and one (1) web, maximum line speed: 1,615 feet per minute, maximum printing width: 36 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (x) One (1) Toshiba web offset lithographic printing press, identified as Press 261, constructed in 1987, VOC emissions controlled by a natural gas-fired regenerative thermal oxidizer system, exhausting through Stack SP-5T(S), SP-7A(S) and/or SP-7B(S) in heatset mode or vent SP-5J(S) in nonheatset mode, with four (4) units and one (1) web, maximum line speed: 1,500 feet per minute, maximum printing width: 36 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (y) One (1) Hantscho web offset lithographic printing press, identified as Press 290, constructed in 1984, exhausting through stack SP-5G(S), with one (1) unit and one (1) web, maximum line speed: 800 feet per minute, maximum printing width: 26 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.

- (z) One (1) Hantscho web offset lithographic printing press, identified as Press 291, constructed in 1984, exhausting through stack SP-5H(S), with four (4) units and two (2) webs, maximum line speed: 800 feet per minute, maximum printing width: 26 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (aa) One (1) Hantscho web offset lithographic printing press, identified as Press 293, constructed in 1989, exhausting through stack SP-5K(S), with four (4) units and two (2) webs, maximum line speed: 1,000 feet per minute, maximum printing width: 33 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (bb) One (1) Hantscho web offset lithographic printing press, identified as Press 294, constructed in 1991, exhausting through stack SP-5M(S), with four (4) units and two (2) webs, maximum line speed: 1,076 feet per minute, maximum printing width: 33 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (cc) One (1) Hantscho web offset lithographic printing press, identified as Press 295, constructed in 1993, exhausting through stack SP-5P(S), with two (2) units and two (2) webs, maximum line speed: 1,000 feet per minute, maximum printing width: 33 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (dd) One (1) Harris web offset lithographic printing press, identified as Press 296, constructed in 1994, exhausting through stack SP-5Q(S), with two (2) units and two (2) webs, maximum line speed: 860 feet per minute, maximum printing width: 31 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (ee) One (1) Heidelberg sheetfed offset lithographic press, identified as Press 258, constructed in 1995, exhausting through stack SP-5R(S), maximum line speed: 505 feet per minute, maximum printing width: 40.5 inches, including six (6) units and coater.
- (ff) One (1) coating operation used for edge staining paper, identified as In-line Stainer 192, constructed in 1993, utilizing HVLP spray coating, utilizing dry filters for overspray control and exhausting through stack BS-4X(N).
- (gg) One (1) nonheatset, sheetfed, offset lithographic printing press, identified as Press 250, constructed in 2006, exhausting through stack SP-5U(S), capacity: 13,000 sheets per hour; 1,120 square inches per sheet.
- (hh) One (1) Goss web offset lithographic printing press, identified as Press 210, approved for construction in 2007 with a projected start up in 2008, VOC emissions controlled by a natural gas-fired regenerative thermal oxidizer system, exhausting through stacks SP-5T(S), SP-7A(S) and/or SP-7B(S) in heatset mode or vent SP-7C(S) in nonheatset mode, maximum line speed: 2,433 feet per minute, maximum printing width: 50 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (ii) One (1) Goss web offset lithographic printing press, identified as Press 211, approved for construction in 2007 with a projected start up in 2009, VOC emissions controlled by a natural gas-fired regenerative thermal oxidizer system, exhausting to stacks SP-5T(S), SP-7A(S) and/or SP-7B(S) in heatset mode or vent SP-7E(S) in nonheatset mode, maximum line speed: 2,433 feet per minute, maximum printing width: 50 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.

- (jj) One (1) Goss web offset lithographic printing press, identified as Press 212, approved for construction in 2007 with a projected start up in 2010, VOC emissions controlled by a natural gas-fired regenerative thermal oxidizer system, exhausting through stacks SP-5T(S), SP-7A(S) and/or SP-7B(S) in heatset mode or vent SP-7G(S) in nonheatset mode, maximum line speed: 2,433 feet per minute maximum printing width: 50 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (kk) One (1) Goss web offset lithographic printing press, identified as Press 213, approved for construction in 2007 with a projected start up in 2010, VOC emissions controlled by a natural gas-fired regenerative thermal oxidizer system, exhausting through stacks SP-5T(S), SP-7A(S) and/or SP-7B(S) in heatset mode or vent SP-7H(S) in nonheatset mode, maximum line speed: 2,646 feet per minute, maximum printing width: 66 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (ll) One (1) Goss web offset lithographic printing press, identified as Press 214, approved for construction in 2007 with a projected start up in 2009, VOC emissions controlled by a natural gas-fired regenerative thermal oxidizer system, exhausting through stacks SP-5T(S), SP-7A(S) and/or SP-7B(S) in heatset mode or vent SP-7F(S), maximum line speed: 2,646 feet per minute, maximum printing width: 66 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (mm) One (1) Timson web offset lithographic printing press, identified as Press 215, approved for construction in 2007 with a projected start up in 2008, VOC emissions controlled by a natural gas-fired regenerative thermal oxidizer system, exhausting through stacks SP-5T(S), SP-7A(S) and/or SP-7B(S) in heatset mode or vent SP-7D(S) in nonheatset mode, maximum line speed: 1,700 feet per minute, maximum printing width: 66 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (nn) One (1) nonheatset, sheetfed, offset lithographic printing press, identified as Press 251, constructed in 2007, with a maximum capacity of 18,000 sheets (17.84 million square inches) per hour, exhausting to stack SP-7J(s).
- (oo) One (1) Heidelberg heatset web offset lithographic printing press, identified as Press 263, with VOC emissions controlled by a natural gas-fired regenerative thermal oxidizer system, exhausting through stacks SP-5T(S), SP-7A(S), and/or SP-7B(S), maximum line speed: 1,200 feet per minute, maximum printing width: 34 inches, with associated in-line equipment;
- (pp) One (1) Heidelberg heatset web offset lithographic printing press, identified as Press 264, with VOC emissions controlled by a natural gas-fired regenerative thermal oxidizer system, exhausting through stacks SP-5T(S), SP-7A(S), and/or SP-7B(S), maximum line speed: 1,200 feet per minute, maximum printing width: 34 inches, with associated in-line equipment; and
- (qq) One (1) nonheatset sheetfed offset lithographic printing press, identified as Press 252, with a maximum capacity of 13,000 sheets (14.56 million square inches) per hour, exhausting to stack SP-10C.

A.4 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-8-3(c)(3)(I)]

This stationary source does not currently have any specifically regulated insignificant activities, as defined in 326 IAC 2-7-1(21), that have applicable requirements.

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, T 107-23664-00052, 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]

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(34), and
 - (2) the certification is based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) The Permittee may use the attached Certification Form, or its equivalent, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) A "responsible official" is defined at 326 IAC 2-7-1(34).

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

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

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

and

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

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
- (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether compliance was continuous or intermittent;
 - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); and
 - (5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ may require to determine the compliance status of the source.

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

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

- (a) A Preventive Maintenance Plan (PMP) 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.
- (b) If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

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

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

- (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. PMPs and their submittal do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).
- (d) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

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

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action

brought for noncompliance with a federal or state health-based emission limitation.

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

- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
- (2) The permitted facility was at the time being properly operated;
- (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
- (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

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

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

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

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

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

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

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

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in

addition to any emergency or upset provision contained in any applicable requirement.

- (e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(9) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.
- (g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

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 T 107-23664-00052 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 combined 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 Reserved

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

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:
 - (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]
- (c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same

procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]

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

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

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

Request for renewal shall be submitted to:

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

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

B.18 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12] [40 CFR 72]

- (a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

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

Any such application does require a certification that meets the requirements of 326 IAC 2-7-

6(1) by a "responsible official", as defined by 326 IAC 2-7-1(34).

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

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

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

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

- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
- (2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;
- (3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
- (4) The Permittee notifies the:

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

and

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

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

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

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

- (b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:
- (1) A brief description of the change within the source;
 - (2) The date on which the change will occur;
 - (3) Any change in emissions; and
 - (4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted is not considered an application form, report or compliance certification. Therefore, the notification by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) Emission Trades [326 IAC 2-7-20(c)]
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).
- (d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAQ, or U.S. EPA is required.
- (e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

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

- (a) A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-7-10.5.
- (b) Any modification at an existing major source is governed by the requirements of 326 IAC 2-2-2.

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

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

- (a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

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

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

- (a) The Permittee must comply with the requirements of 326 IAC 2-7-11 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

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

Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official", as defined by 326 IAC 2-7-1(34).

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

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

- (a) The Permittee shall pay annual fees to IDEM, OAQ within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.
- (b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

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

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

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 one hundred (100) pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed five hundred fifty-one thousandths (0.551) pounds per hour.

C.2 Opacity [326 IAC 5-1]

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

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

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

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

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

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

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

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

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

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

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

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least two hundred sixty (260) linear feet on pipes or one hundred sixty (160) square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

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

All required notifications shall be submitted to:

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

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

- (e) **Procedures for Asbestos Emission Control**
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least seventy-five hundredths (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 Accredited 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 Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Accredited Asbestos inspector is not federally enforceable.

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

C.8 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(34).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

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

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

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

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

Unless otherwise specified in this permit, for all monitoring requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or initial start-up, whichever is later, to begin such monitoring. If due to circumstances beyond the Permittee's control, any monitoring equipment required by this permit cannot be installed and operated no later than ninety (90) days after permit issuance or initial start-up, whichever is later, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

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

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date.

The notification which shall be submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

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

C.11 Reserved

C.12 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.
- (b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

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

C.13 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 prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures on June 21, 2002.
- (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.14 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68]

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

C.15 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]

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

- (a) The Permittee shall take reasonable steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:
 - (1) initial inspection and evaluation
 - (2) recording that operations returned or are returning to normal without operator action (such as through response by a computerized distribution control system); or
 - (3) any necessary follow-up actions to return operation to normal or usual manner of operation.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
 - (1) monitoring results;

- (2) review of operation and maintenance procedures and records;
- (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall record the reasonable response steps taken.

C.16 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5] [326 IAC 2-7-6]

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall submit a description of its response actions to IDEM, OAQ no later than seventy-five (75) days after the date of the test.
- (b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

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

C.17 Emission Statement [326 IAC 2-7-5(3)(C)(iii)] [326 IAC 2-7-5(7)] [326 IAC 2-7-19(c)] [326 IAC 2-6]

- (a) Pursuant to 326 IAC 2-6-3(a)(1), the Permittee shall submit by July 1 of each year an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:
 - (1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);
 - (2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1(32) ("Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for purpose of fee assessment.

The statement must be submitted to:

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

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

C.18 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [326 IAC 2-2]

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records

may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

- (b) Unless otherwise specified in this permit, 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) If there is a "project" (as defined in 326 IAC 2-2-1(qq)) at an existing emissions unit other than a project at a source with a Plantwide Applicability Limitation (PAL), which is not part of a "major modification" (as defined in 326 IAC 2-2-1(ee)) and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(rr)), the Permittee shall comply with the following:
 - (1) Before beginning actual construction of the "project" (as defined in 326 IAC 2-2-1(qq)) at an existing emissions unit, document and maintain the following records:
 - (A) A description of the project.
 - (B) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project.
 - (C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:
 - (i) Baseline actual emissions;
 - (ii) Projected actual emissions;
 - (iii) Amount of emissions excluded under section 326 IAC 2-2-1(rr)(2)(A)(iii); and
 - (iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.
 - (2) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emissions unit identified in (1)(B) above; and
 - (3) Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.

C.19 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2]

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported 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 of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

- (b) The address for report submittal is:
- Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (d) Reserved
- (e) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.
- (f) If the Permittee is required to comply with the record keeping provisions of (c) in Section C - General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1(qq)) at an existing emissions unit, and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ:
- (1) The annual emissions, in tons per year, from the project identified in (c)(1) in Section C - General Record Keeping Requirements exceed the baseline actual emissions, as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(i), by a significant amount, as defined in 326 IAC 2-2-1(xx)), for that regulated NSR pollutant, and
 - (2) The emissions differ from the preconstruction projection as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(ii).
- (g) The report for project at an existing emissions unit shall be submitted no later than sixty (60) days after the end of the year and contain the following:
- (1) The name, address, and telephone number of the major stationary source.
 - (2) The annual emissions calculated in accordance with (c)(2) and (3) in Section C - General Record Keeping Requirements.
 - (3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3) and/or 326 IAC 2-3-2(c)(3).
 - (4) Any other information that the Permittee wishes to include in this report such as an explanation as to why the emissions differ from the preconstruction projection.
- Reports required in this part shall be submitted to:
- Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- (h) The Permittee shall make the information required to be documented and maintained in

accordance with (c) in Section C - General Record Keeping Requirements available for review upon a request for inspection by IDEM, OAQ. The general public may request this information from the IDEM, OAQ under 326 IAC 17.1.

Stratospheric Ozone Protection

C.20 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

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Boilers

North Plant:

- (a) Four (4) natural gas-fired boilers, each combusting propane as backup, heat input capacity: 20.9 million British thermal units per hour, each, described as follows:
- (1) Boiler #1(N), constructed in 1956, exhausting through stack SB-4A(N).
 - (2) Boiler #2(N), constructed in 1956, exhausting through stack SB-4B(N).
 - (3) Boiler #3(N), constructed in 1962, exhausting through stack SB-4C(N).
 - (4) Boiler #4(N), constructed in 1972, exhausting through stack SB-4D(N).
- (b) One (1) natural gas-fired boiler, identified as Boiler #5(N), constructed in 1975, capable of combusting propane as backup, exhausting through stack SB-4E(N), heat input capacity: 2.56 million British thermal units per hour.

South Plant:

- (u) Three (3) natural gas-fired boilers, each combusting propane as backup, heat input capacity: 25.1 million British thermal units per hour, each, described as follows:
- (1) Boiler #1(S), constructed in 1964, exhausting through stack SB-4A(S).
 - (2) Boiler #2(S), constructed in 1964, exhausting through stack SB-4B(S).
 - (3) Boiler #3(S), constructed in 1975, exhausting through stack SB-4C(S).

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

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

D.1.1 Particulate Matter Limitation (PM) [326 IAC 6-2-3]

- (a) Pursuant to 326 IAC 6-2-3(b), particulate emissions limitations for the six (6) boilers identified as Boiler #1(N), Boiler #2(N), Boiler #3(N), Boiler #4(N), Boiler #1(S), Boiler #2(S), which were existing and in operation on or before June 8, 1972, shall be calculated by the following equation:

$$Pt = \frac{C \times a \times h}{76.5 \times Q^{0.75} \times N^{0.25}}$$

Pt = lbs of PM emitted per MMBtu heat input

C = maximum ground level concentration (default = 50 ug/m³)

a = plume rise factor (default = 0.67 for Q less than 1,000 MMBtu/hr)

h = stack height in feet

Q = total source maximum operating capacity

N = number of stacks in fuel burning operation

$$Pt = \frac{50 \mu\text{g}/\text{m}^3 * 0.67 * 34}{76.5 * 134^{0.75} * 6^{0.25}} = 0.242 \text{ lb/MMBtu}$$

- (b) Pursuant to 326 IAC 6-2-3(c), the two (2) boilers, identified as Boiler #5(N) and Boiler #3(S), shall be calculated by the following equation:

$$Pt = \frac{C \times a \times h}{76.5 \times Q^{0.75} \times N^{0.25}}$$

Pt = lbs of PM emitted per MMBtu heat input

C = maximum ground level concentration (default = 50 ug/m³)

a = plume rise factor (default = 0.67 for Q less than 1,000 MMBtu/hr)

h = stack height in feet

Q = total source maximum operating capacity

N = number of stacks in fuel burning operation

- (1) The one (1) boiler, identified as Boiler #5(N), shall be limited as follows:

$$Pt = \frac{50 \mu\text{g}/\text{m}^3 * 0.67 * 35}{76.5 * 136^{0.75} * 7^{0.25}} = 0.236 \text{ lb/MMBtu}$$

- (2) The one (1) boiler, identified as Boiler #3(S), shall be limited as follows:

$$Pt = \frac{50 \mu\text{g}/\text{m}^3 * 0.67 * 35}{76.5 * 136^{0.75} * 8^{0.25}} = 0.204 \text{ lb/MMBtu}$$

D.1.2 Preventive Maintenance Plan [326 IAC 1-6-3]

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

SECTION D.2

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Paper Trimming and Baling

North Plant:

- (c) Four (4) paper trimming and baling processes, process weight rate: 4 tons of paper trim per hour, each, described as follows:
- (1) Paper Trim #1(N), controlled by Paper Trim Cyclone #1(N), exhausting through stack SBP-5H(N).
 - (2) Paper Trim #2(N), controlled by Paper Trim Cyclone #2(N), exhausting through stack SBP-5I(N).
 - (3) Paper Trim #3(N), controlled by Paper Trim Cyclone #3(N), exhausting through stack SBP-5J(N).
 - (4) Paper Trim #4(N), controlled by Paper Trim Cyclone #4(N), exhausting through stack SBP-5K(N).
- (d) Two (2) Paper Dust Collectors:
- (1) Dust Collector #1(N) consists of a baghouse for particulate control and is exhausted through SD-6A(N).
 - (2) Dust Collector #2(N) consists of a baghouse for particulate control and is exhausted through SD-6B(N).

South Plant:

- (v) Four (4) paper trimming and baling processes, each constructed in 1976, process weight rate: 4 tons of paper trim per hour, each, described as follows:
- (1) Paper Trim #1(S), controlled by Paper Trim Cyclone #1(S), exhausting through stack SBP-5E(S).
 - (2) Paper Trim #2(S), controlled by Paper Trim Cyclone #2(S), exhausting through stack SBP-5E(S).
 - (3) Paper Trim #3(S), controlled by Paper Trim Cyclone #3(S), exhausting through stack SBP-5E(S).
 - (4) Paper Trim #4(S), controlled by Paper Trim Cyclone #4(S), exhausting through stack SBP-5E(S).
- (w) One (1) Paper Dust Collector:
- (1) Dust Collector #1(S) consists of a two (2) cyclones each followed by a baghouse (2 total) for particulate control and are exhausted through SD-6A(S) and new exhaust point SD6C(S).

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

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

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

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emission rate from the paper trimming and baling processes, identified as Paper Trim #1(N), Paper Trim #2(N), Paper Trim #3(N), Paper Trim #4(N), Paper Trim #1(S), Paper Trim #2(S), Paper Trim #3(S) and Paper Trim #4(S), shall not exceed the pound per hour rates listed in the following table when operating at the specified process weight rates in tons per hour:

Facility	Process Weight Rate (tons per hour)	326 IAC 6-3-2 Allowable PM Emission Rate (pounds per hour)
Paper Trim #1(N)	4	10.4
Paper Trim #2(N)	4	10.4
Paper Trim #3(N)	4	10.4
Paper Trim #4(N)	4	10.4
Paper Trim #1(S)	4	10.4
Paper Trim #2(S)	4	10.4
Paper Trim #3(S)	4	10.4
Paper Trim #4(S)	4	10.4

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

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

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

D.2.2 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan is required for this facility and its control device. Section B - Preventive Maintenance Plan of this permit contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

SECTION D.3

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Printing presses

North Plant:

- (e) One (1) Mitsubishi web offset lithographic printing press, identified as Press 268, constructed in 1993, VOC emissions controlled by a natural gas-fired regenerative thermal oxidizer, identified as North Oxidizer, exhausting through stack SP-5Y(N) when operating in heatset mode, with two (2) units and two (2) webs, maximum line speed: 1,600 feet per minute, maximum printing width: 64 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (f) One (1) Toshiba web offset lithographic printing press, identified as Press 269, constructed in 1993, VOC emissions controlled by a natural gas-fired regenerative thermal oxidizer, identified as North Oxidizer, exhausting through stack SP-5Y(N) when operating in heatset mode, exhausting through vent SP-5BB(N) in nonheatset mode, with four (4) units and two (2) webs, maximum line speed: 1,600 feet per minute, maximum printing width: 50 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (g) One (1) Hantscho web offset lithographic printing press, identified as Press 240, constructed in 1988, exhausting through stack SP-5R(N), with two (2) units and two (2) webs, maximum line speed: 1,000 feet per minute, maximum printing width: 33 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (h) One (1) KBA Compacta web offset lithographic printing press, identified as Press 281, constructed in 1991, exhausting through stack SP-5S(N), with two (2) units and two (2) webs, maximum line speed: 1,100 feet per minute, maximum printing width: 26 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (i) One (1) Hantscho web offset lithographic printing press, identified as Press 245, constructed in 1989, exhausting through stack SP-5Q(N), with four (4) units and two (2) webs, maximum line speed: 1,000 feet per minute, maximum printing width: 33 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (j) One (1) Timson web offset lithographic printing press, identified as Press 242, constructed in 1995, exhausting through stack SP-5Z(N), with one (1) unit and one (1) web, maximum line speed: 1,200 feet per minute, maximum printing width: 47 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (k) One (1) Timson web offset lithographic printing press, identified as Press 243, constructed in 1995, exhausting through stack SP-5AA(N), with one (1) unit and one (1) web, maximum line speed: 1,200 feet per minute, maximum printing width: 47 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (l) One (1) Harris web offset lithographic printing press, identified as Press 285, constructed in 1976, exhausting through stack SP-5K(N), with two (2) units and two (2) webs, maximum line speed: 825 feet per minute, maximum printing width: 26 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (m) One (1) Harris web offset lithographic printing press, identified as Press 286, constructed in 1979, exhausting through stack SP-5L(N), with two (2) units and two (2) webs, maximum line speed: 825 feet per minute, maximum printing width: 31 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.

- (n) One (1) Harris web offset lithographic printing press, identified as Press 287, constructed in 1979, exhausting through stack SP-5M(N), with four (4) units and two (2) webs, maximum line speed: 825 feet per minute, maximum printing width: 31 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.

South Plant:

- (o) One (1) Mitsubishi web offset lithographic printing press, identified as Press 262, constructed in 1992, VOC emissions controlled by a natural gas-fired regenerative thermal oxidizer, exhausting through stacks SP-7T(S), SP-7A(S) and/or SP-7B(S) in heatset mode or Vent SP-5N(S) in nonheatset mode, with four (4) units and two (2) webs, maximum line speed: 807 feet per minute, maximum printing width: 33 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (p) One (1) Hantscho web offset lithographic printing press, identified as Press 270, constructed in 1979, exhausting through stack SP-5F(S), with four (4) units and two (2) webs, maximum line speed: 807 feet per minute, maximum printing width: 33 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (q) One (1) Cottrell web offset lithographic printing press, identified as Press 272, constructed in 1973, exhausting through stack SP-5D(S), with four (4) units and two (2) webs, maximum line speed: 1,000 feet per minute, maximum printing width: 64 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (r) One (1) Mitsubishi web offset lithographic printing press, identified as Press 273, constructed in 1991, VOC emissions controlled by a natural gas-fired regenerative thermal oxidizer, exhausting through Stack SP-5T(S), SP-7A(S) and/or SP-7B(S) in heatset mode or Vent SP-5L(S) in nonheatset mode, with four (4) units and two (2) webs, maximum line speed: 1,615 feet per minute, maximum printing width: 64 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (s) One (1) Cottrell web offset lithographic printing press, identified as Press 276, constructed in 1976, exhausting through stack SP-5E(S), with four (4) units and two (2) webs, maximum line speed: 1,200 feet per minute, maximum printing width: 64 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (t) One (1) Toshiba web offset lithographic printing press, identified as Press 260, constructed in 1986, VOC emissions controlled by a natural gas-fired regenerative thermal oxidizer, exhausting through Stack SP-5T(S), SP-7A(S) and/or SP-7B(S) in heatset mode or Vent SP-5I(S) in nonheatset mode, with four (4) units and one (1) web, maximum line speed: 1,615 feet per minute, maximum printing width: 36 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (u) One (1) Toshiba web offset lithographic printing press, identified as Press 261, constructed in 1987, VOC emissions controlled by a natural gas-fired regenerative thermal oxidizer, exhausting through Stack SP-5T(S), SP-7A(S) and/or SP-7B(S) in heatset mode or Vent SP-5J(S) in nonheatset mode, with four (4) units and one (1) web, maximum line speed: 1,500 feet per minute, maximum printing width: 36 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (v) One (1) Hantscho web offset lithographic printing press, identified as Press 290, constructed in 1984, exhausting through stack SP-5G(S), with one (1) unit and one (1) web, maximum line speed: 800 feet per minute, maximum printing width: 26 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (w) One (1) Hantscho web offset lithographic printing press, identified as Press 291, constructed in 1984, exhausting through stack SP-5H(S), with four (4) units and two (2) webs, maximum line speed: 800 feet per minute, maximum printing width: 26 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.

- (x) One (1) Hantscho web offset lithographic printing press, identified as Press 293, constructed in 1989, exhausting through stack SP-5K(S), with four (4) units and two (2) webs, maximum line speed: 1,000 feet per minute, maximum printing width: 33 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (y) One (1) Hantscho web offset lithographic printing press, identified as Press 294, constructed in 1991, exhausting through stack SP-5M(S), with four (4) units and two (2) webs, maximum line speed: 1,076 feet per minute, maximum printing width: 33 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (z) One (1) Hantscho web offset lithographic printing press, identified as Press 295, constructed in 1993, exhausting through stack SP-5P(S), with two (2) units and two (2) webs, maximum line speed: 1,000 feet per minute, maximum printing width: 33 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (aa) One (1) Harris web offset lithographic printing press, identified as Press 296, constructed in 1994, exhausting through stack SP-5Q(S), with two (2) units and two (2) webs, maximum line speed: 860 feet per minute, maximum printing width: 31 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (bb) One (1) Heidelberg sheetfed offset lithographic press, identified as Press 258, constructed in 1995, exhausting through stack SP-5R(S), maximum line speed: 505 feet per minute, maximum printing width: 40.5 inches, including six (6) units and coater.
- (cc) One (1) coating operation used for edge staining paper, identified as In-line Stainer 192, constructed in 1993, utilizing HVLP spray coating, utilizing dry filters for overspray control and exhausting through stack BS-4X(N).
- (dd) One (1) nonheatset, sheetfed, offset lithographic printing press, identified as Press 250, constructed in 2006, exhausting through stack SP-5U(s), capacity: 13,000 sheets per hour, 1,120 square inches per sheet.
- (ee) One (1) Goss web offset lithographic printing press, identified as Press 210, approved for construction in 2007 with a projected start up in 2008, VOC emissions controlled by a natural gas-fired regenerative thermal oxidizer system, exhausting through stacks SP-5T(S), SP-7A(S) and/or SP-7B(S) in heatset mode or vent SP-7C(S) in nonheatset mode, maximum line speed: 2,433 feet per minute, maximum printing width: 50 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (ff) One (1) Goss web offset lithographic printing press, identified as Press 211, approved for construction in 2007 with a projected start up in 2009, VOC emissions controlled by a natural gas-fired regenerative thermal oxidizer system, exhausting to stacks SP-5T(S), SP-7A(S) and/or SP-7B(S) in heatset mode or vent SP-7E(S) in nonheatset mode, maximum line speed: 2,433 feet per minute, maximum printing width: 50 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (gg) One (1) Goss web offset lithographic printing press, identified as Press 212, approved for construction in 2007 with a projected start up in 2010, VOC emissions controlled by a natural gas-fired regenerative thermal oxidizer system, exhausting through stacks SP-5T(S), SP-7A(S) and/or SP-7B(S) in heatset mode or vent SP-7G(S) in nonheatset mode, maximum line speed: 2,433 feet per minute maximum printing width: 50 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.

- (hh) One (1) Goss web offset lithographic printing press, identified as Press 213, approved for construction in 2007 with a projected start up in 2010, VOC emissions controlled by a natural gas-fired regenerative thermal oxidizer system, exhausting through stacks SP-5T(S), SP-7A(S) and/or SP-7B(S) in heatset mode or vent SP-7H(S) in nonheatset mode, maximum line speed: 2,646 feet per minute, maximum printing width: 66 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (ii) One (1) Goss web offset lithographic printing press, identified as Press 214, approved for construction in 2007 with a projected start up in 2009, VOC emissions controlled by a natural gas-fired regenerative thermal oxidizer system, exhausting through stacks SP-5T(S), SP-7A(S) and/or SP-7B(S) in heatset mode or vent SP-7F(S), maximum line speed: 2,646 feet per minute, maximum printing width: 66 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (jj) One (1) Timson web offset lithographic printing press, identified as Press 215, approved for construction in 2007 with a projected start up in 2008, VOC emissions controlled by a natural gas-fired regenerative thermal oxidizer system, exhausting through stacks SP-5T(S), SP-7A(S) and/or SP-7B(S) in heatset mode or vent SP-7D(S) in nonheatset mode, maximum line speed: 1,700 feet per minute, maximum printing width: 66 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (kk) One (1) nonheatset, sheetfed, offset lithographic printing press, identified as Press 251, approved for construction in 2007, with a maximum capacity of 18,000 sheets (17.84 million square inches) per hour, exhausting to stack SP-7J(s).
- (ll) One (1) Heidelberg heatset web offset lithographic printing press, identified as Press 263, with VOC emissions controlled by a natural gas-fired regenerative thermal oxidizer system, exhausting through stacks SP-5T(S), SP-7A(S), and/or SP-7B(S), maximum line speed: 1,200 feet per minute, maximum printing width: 34 inches, with associated in-line equipment;
- (mm) One (1) Heidelberg heatset web offset lithographic printing press, identified as Press 264, with VOC emissions controlled by a natural gas-fired regenerative thermal oxidizer system, exhausting through stacks SP-5T(S), SP-7A(S), and/or SP-7B(S), maximum line speed: 1,200 feet per minute, maximum printing width: 34 inches, with associated in-line equipment; and
- (nn) One (1) nonheatset sheetfed offset lithographic printing press, identified as Press 252, with a maximum capacity of 13,000 sheets (14.56 million square inches) per hour, exhausting to stack SP-10C.

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

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

D.3.1 Volatile Organic Compounds (VOCs) [326 IAC 8-1-6] [326 IAC 2-7-10.5(d)(5)(A)]

- (a) The nine (9) presses, identified as Press 240, Press 281, Press 245, Press 290, Press 291, Press 293, Press 294, Press 295, and Press 296 shall be limited as follows:

The VOC content delivered to the applicator of each press shall be limited such that VOC emitted is less than twenty-five (25) tons per twelve (12) consecutive month period, with compliance determined at the end of each month. This renders the Best Available Control Technology (BACT) requirement in 326 IAC 8-1-6 (New Facilities: General Reduction Requirements) not applicable.

For each press, VOC emitted shall be based on the following equation:

$$\text{VOC emissions (tons)} = (\text{ink usage in heatset mode (tons)} * \text{VOC content} * 80\% \text{ flash off}) + (\text{ink usage in nonheatset mode (tons)} * \text{VOC content} * 5\% \text{ flash off}) +$$

(fountain solution usage (tons) * VOC content * 100% flash off) +
(manual cleaner usage (tons) * VOC content * 50% flash off) +
(automatic cleaner usage (tons) * VOC content * 100% flash off)

- (b) Pursuant to AA 107-17119-00052, issued on February 4, 2003, the amount of VOC delivered to the applicator of Press 258 shall be limited such that VOC emitted is less than ten (10) tons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (c) Pursuant to CP 107-4233 issued April 20, 1995, total VOC content delivered to the applicator of the two (2) presses, identified as Press 242 and Press 243, shall be limited such that VOC emitted is less than a combined thirty-nine (39) tons per twelve (12) consecutive month period, with compliance determined at the end of each month. The total amount of VOC delivered to each press individually, including clean-up solvents, shall be limited such that VOC emitted is less than twenty-five (25) tons per twelve (12) consecutive month period, with compliance determined at the end of each month. This renders 326 IAC 2-2 and 326 IAC 8-1-6 not applicable.

For each press, VOC emitted shall be based on the following equation:

VOC emissions (tons) =

(ink usage in heatset mode (tons) * VOC content by weight * 80% flash off) +
(ink usage in nonheatset mode (tons) * VOC content by weight * 5% flash off) +
(fountain solution usage (tons) * VOC content by weight * 100% flash off) +
(manual cleaner usage (tons) * VOC content by weight * 50% flash off) +
(automatic cleaner usage (tons) * VOC content by weight * 100% flash off)

- (d) Pursuant to 326 IAC 8-1-6 and Significant Permit Modification 107-24641-00052 issued on October 19, 2007, the Best Available Control Technology (BACT) for the twelve (12) presses, identified as Press 268, Press 269, Press 260, Press 261, Press 262, Press 273, Press 210, Press 211, Press 212, Press 213, Press 214 and Press 215 shall be as follows:
- (1) When operating in heatset mode, Presses 268 and 269 will be controlled by the North Oxidizer, a 7.6 MMBtu per hour thermal oxidizer, and Presses 260, 261, 262, 273, 210, 211, 212, 213, 214 and 215 will be controlled by the regenerative thermal oxidizer system, consisting of one to three operating regenerative thermal oxidizers identified as RTO-1, RTO-2 and RTO-3. The North Oxidizer and the regenerative thermal oxidizer system shall be in operation at all times during which any of the printing presses controlled by the oxidizers/oxidizer system are operating in heatset mode.
- (A) Pursuant to CP 107-2726 issued on February 26, 1993 and CP 107-2917 issued on April 6, 1993, Presses 268 and 269 shall not be operated in heatset mode until such time that the combustion temperature in the thermal oxidizer has attained the minimum temperature determined in testing requirements to destroy at least 90% of captured VOC.
- (B) Presses 260, 261, 262, 273, 210, 211, 212, 213, 214 and 215 shall not be operated in heatset mode until such time that the combustion temperature(s) in the thermal oxidizer system has attained the minimum temperature(s) determined in testing requirements to destroy at least 97% of captured VOC.
- (C) The fountain solution used by Presses 210, 211, 212, 213, 214 and 215 shall not contain greater than 5.0% VOC content by weight, as applied.
- (D) The solvents used for blanket and roller washes by Presses 210, 211,

212, 213, 214 and 215 shall comply with at least one (1) of the following:

- (i) The solvent shall not have a composite VOC vapor pressure greater than 10 mm Hg at 20°C, or
 - (ii) The solvent shall not contain greater than 2.5 pounds of VOC per gallon, as applied.
- (E) The manual cleaning solvents used by Presses 210, 211, 212, 213, 214 and 215 shall comply with at least one (1) of the following:
- (i) The solvent shall not have a composite VOC vapor pressure greater than 25 mm Hg at 20°C, or
 - (ii) The solvent shall not contain greater than 2.5 pounds of VOC per gallon, as applied.
- (2) When operating any of Presses 260, 261, 262, 273, 210, 211, 212, 213, 214, 215, 268, and 269 in nonheatset mode:
- (A) The inks used by that press shall not contain greater than 2.5 pounds of VOC per gallon, as applied;
 - (B) The fountain solution used by that press shall not contain greater than 2.0% VOC content by weight, as applied; and
 - (C) The solvents used for blanket and roller washes by that press shall comply with at least one (1) of the following:
 - (i) The solvent shall not have a composite VOC vapor pressure greater than 10 mm Hg at 20°C, or
 - (ii) The solvent shall not contain greater than 2.5 pounds of VOC per gallon, as applied.
 - (D) The manual cleaning solvents used by that press shall comply with at least one (1) of the following:
 - (i) The solvent shall not have a composite VOC vapor pressure greater than 25 mm Hg at 20°C, or
 - (ii) The solvent shall not contain greater than 2.5 pounds of VOC per gallon, as applied.
- (3) Pursuant to Minor Permit Modification 107-25364-00052 issued on February 12, 2008, the total VOC content delivered to the applicator of Presses 210, 211, 212, 213, 214, 215, and 251 shall be limited such that VOC emitted shall not exceed 39 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

For presses 210 through 215, VOC emitted shall be based on the following equation:

$$\text{VOC emissions (tpy)} = (\text{ink usage in heatset mode} * \text{VOC content} * 80\% \text{ flash off} * 3\% \text{ emitted after controls}) + (\text{ink usage in nonheatset mode} * \text{VOC content} * 5\% \text{ flash off}) + (\text{fountain solution usage in heatset mode} * \text{VOC content} * 100\% \text{ flash off} * 32.1\% \text{ emitted after controls}) + (\text{fountain solution usage in$$

nonheatset mode * VOC content * 100% flash off) + (manual cleaner usage * VOC content * 50% flash off) + (automatic cleaner usage in heatset mode * VOC content * 61.2% emitted after controls) + (automatic cleaner usage in nonheatset mode * VOC content * 100% flash off)

For press 251, total VOC emitted shall be based on the following equation:

VOC emissions (tpy) =
(ink usage * VOC content * 5% flash off) +
(fountain solution usage * VOC content * 100% flash off) +
(manual cleaner usage * VOC content * 50% flash off) +
(automatic cleaner usage * VOC content * 100% flash off)

Compliance with these requirements satisfies the Best Available Control Technology (BACT) requirement in 326 IAC 8-1-6 for both heatset and nonheatset modes.

- (e) Pursuant to 326 IAC 8-1-6 and Significant Source Modification No. 107-28887-00052, IDEM has determined that the best available control technology (BACT) to control VOC emissions from the two (2) heatset web offset lithographic printing presses identified as Presses 263 and 264 shall be as follows:
- (1) When operating in heatset mode, the VOC emissions from Presses 263 and 264 shall be controlled by the thermal oxidizer system, consisting of one (1) to three (3) operating regenerative thermal oxidizers identified as RTO-1, RTO-2, and RTO-3.
 - (2) Presses 263 and 264 shall not be operated in heatset mode until such time that the combustion temperature(s) in the thermal oxidizer system has attained the minimum temperature(s) determined in testing requirements to destroy at least 97% of captured VOC.
 - (3) The VOC content of the fountain solution shall not exceed 3% VOC as applied;
 - (4) The blanket and roller washes shall have a vapor pressure no greater than 10 mmHg at 20°C or the VOC content shall be limited to 2.5 lb/gal as applied;
 - (5) The manual cleaning solvents shall have a vapor pressure no greater than 25 mmHg at 20°C or the VOC content shall be limited to 2.5 lb/gal as applied; and
 - (6) The capture and retention efficiencies used for reporting compliance shall be as follows and are based on U.S. EPA's "Alternative Control Techniques Document: Offset Lithographic Printing" (EPA 453/R-94-054, June 1994):
 - (A) 100% capture, by weight, of the VOC in press-ready inks;
 - (B) 70% capture, by weight, of the VOC in press-ready fountain solutions;
 - (C) 20% retention, by weight, of VOC in inks in the paper substrate; and
 - (D) 50% retention, by weight, of manual cleaning solvents in the cleaning wipers. Cleaning wipers shall always be placed in closed containers after use.

Compliance with the above limits and conditions will satisfy the requirements of 326 IAC 8-1-6 (BACT).

D.3.2 Volatile Organic Compounds (VOCs) [326 IAC 8-1-6]

The VOC content delivered to the one (1) coating operation, identified as In-line Stainer 192, shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period, with compliance demonstrated at the end of each month. This renders the best available control technology (BACT) requirement of 326 IAC 8-1-6 (New Facilities: General Reduction Requirements) not applicable.

D.3.3 Volatile Organic Compounds (VOCs) [326 IAC 2-2]

- (a) The VOC content delivered to the applicators of Press 287 shall be limited such that VOC emitted is less than forty (40) tons per twelve (12) consecutive month period, total, with compliance demonstrated at the end of each month. This renders the requirements of 326 IAC 2-2 not applicable.
- (b) The VOC content delivered to the applicator of Press 286 shall be limited such that VOC emitted is less than forty (40) tons per twelve (12) consecutive month period, with compliance demonstrated at the end of each month. This renders the requirements of 326 IAC 2-2 not applicable.
- (c) The VOC content delivered to the applicator of Press 270 shall be limited such that VOC emitted is less than forty (40) tons per twelve (12) consecutive month period, with compliance demonstrated at the end of each month. This renders the requirements of 326 IAC 2-2 not applicable.
- (d) Pursuant to Significant Source Modification No. 107-28887-00052, the amount of VOC delivered to the substrate and the amount of VOC used for cleanup shall be limited such that VOC emitted after controls from the two (2) heatset web offset lithographic printing presses, identified as Presses 263 and 264, and the one (1) nonheatset sheetfed lithographic printing press, identified as Press 252, does not exceed 39 tons per twelve (12) month period, with compliance determined at the end of each month.

Compliance with these emission limits will ensure that the potential to emit from this modification is less than 40 tons of VOC per year and therefore will render the requirements of 326 IAC 2-2 not applicable.

D.3.4 Clean-up Solvent VOC Emissions Control

The VOC flash off for clean-up solvent is 100%. As derived from U.S. EPA Alternative Control Techniques Document: Offset Lithographic Printing (EPA 453/R-94 054, June 1994), the accepted shop towel retention factor for clean-up solvent is 50%. A 50% reduction in flash off shall be used in VOC emissions formulae in D.3.1 as an emission control technique and shall meet the following conditions:

- (a) The clean-up solvent shall have a VOC content of thirty percent (30%) or less, by weight, or a composite VOC vapor pressure less than or equal to ten (10) millimeters of mercury (Hg) at twenty degrees Celsius (20°C); and
- (b) The clean-up solvents shall be kept in tightly covered tanks or containers during transport and storage; and
- (c) The cleaning cloths used with the clean-up solvents shall be placed in tightly closed containers when not in use and while awaiting off-site transport. The cleaning cloths shall be properly cleaned and disposed.

D.3.5 Particulate Matter (PM) [326 IAC 6-3]

Pursuant to 326 IAC 6-3-2(d), particulate from the one (1) coating operation, identified as In-Line Stainer 192, shall be controlled by dry particulate filters, and the Permittee shall operate the control device in accordance with manufacturer's specifications.

D.3.6 Preventive Maintenance Plan [326 IAC 1-6-3] [326 IAC 2-7-5(13)]

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

Compliance Determination Requirements

D.3.7 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

- (a) Testing of the North Oxidizer and regenerative thermal oxidizer RTO-1 to verify their destruction efficiencies was performed on August 18, 2005.
- (b) Within sixty (60) days after achieving the maximum rated capacity at which Presses 212 and 213 will be operated, but no later than 180 days after startup, the Permittee shall conduct a performance test to verify the VOC destruction efficiency as per Condition D.3.1 for regenerative thermal oxidizer RTO-2 utilizing methods as approved by the Commissioner.
- (c) Within sixty (60) days after achieving the maximum rated capacity at which Presses 214 and 215 will be operated, but no later than 180 days after startup, the Permittee shall conduct a performance test to verify the VOC destruction efficiency as per Condition D.3.1 for regenerative thermal oxidizer RTO-3 utilizing methods as approved by the Commissioner.
- (d) These tests shall be repeated at least once every two and one-half (2.5) years from the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing of this permit contains the Permittee's obligation with regard to the performance testing required by this condition.

D.3.8 Volatile Organic Compounds (VOC)

Compliance with the VOC content and usage limitations contained in Conditions D.3.1 and D.3.2 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) using formulation data supplied by the manufacturer. IDEM, OAQ, reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

D.3.9 Volatile Organic Compounds (VOC)

To determine compliance with Condition D.3.3(d), VOC emissions shall be calculated using the following equations:

- (a) For Presses 263 and 264:

VOC emissions (tpy) = (ink usage * VOC content * 80% flash-off * 3% emitted after controls) + (fountain solution usage * VOC content * 100% flash-off * 32.1% emitted after controls) + (manual cleaner usage * VOC content * 50% flash-off)

- (b) For Press 252:

VOC emissions (tpy) = (ink usage * VOC content * 5% flash-off) + (fountain solution usage * VOC content * 100% flash-off) + (manual cleaner usage * VOC content * 50% flash-off) + (automatic cleaner usage * VOC content * 100% flash-off) + (aqueous coating usage * VOC content * 100% flash-off)

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

D.3.10 Thermal Oxidizers [326 IAC 8-1-6] [40 CFR 64.1]

- (a) The North Oxidizer shall operate at all times that either of the two (2) presses, identified as Press 268 and Press 269, are operating in heatset mode.
- (b) The regenerative thermal oxidizer system, consisting of one (1) to three (3) oxidizers identified as RTO-1, RTO-2 and/or RTO-3, shall operate at all times that any of twelve (12) presses, identified as Press 260, Press 261, Press 262, Press 273, Press 210, Press 211, Press 212, Press 213, Press 214, Press 215, Press 263, and Press 264 are operating in heatset mode.
- (c) When operating the North Oxidizer, the thermal oxidizer shall maintain a minimum operating temperature of:
 - (1) 1350°F, or
 - (2) the temperature and fan amperage or duct velocity determined at the stack tests that achieves a minimum 90% destruction efficiency of the VOC.
- (d) When operating thermal oxidizers RTO-1, RTO-2 or RTO-3, the thermal oxidizer shall maintain a minimum operating temperature of:
 - (1) 1350°F, or
 - (2) the temperature and fan amperage or duct velocity determined at the stack tests that achieves a minimum 97% destruction efficiency of the VOC.

D.3.11 Thermal Oxidizer Temperature [326 IAC 8-1-6] [40 CFR 64.1]

- (a) A continuous monitoring system shall be calibrated, maintained, and operated on each thermal oxidizer for measuring operating temperature. The output of this system shall be recorded as a 3-hour average. From the date of issuance of this permit until the approved stack test results are available, the Permittee shall operate each thermal oxidizer at or above the 3-hour average temperature of 1350°F.
- (b) The Permittee shall determine, for each thermal oxidizer, the 3-hour average temperature from the most recent valid stack test that demonstrates compliance with the control efficiency requirement in Condition D.3.1(e)(1), as approved by IDEM.
- (c) On and after the date the approved stack test results are available, the Permittee shall operate each thermal oxidizer at or above the 3-hour average temperature as observed during the compliant stack test.

D.3.12 Parametric Monitoring [326 IAC 8-1-6] [40 CFR 64.1]

- (a) The Permittee shall determine, for each thermal oxidizer, the appropriate duct pressure or fan amperage from the most recent valid stack test that demonstrates compliance with the control efficiency requirement in Condition D.3.1(e)(1), as approved by IDEM.
- (b) The duct pressure or fan amperage shall be observed at least once per week when the thermal oxidizer is in operation. On and after the date the approved stack test results are available, the duct pressure or fan amperage shall be maintained within the normal range as established in most recent compliant stack test.

D.3.13 Particulate Matter Monitoring

- (a) Daily inspections from the one (1) coating operation, identified as In-line Stainer 192 shall be performed to verify the placement, integrity and particle loading of the filters. To

monitor the performance of the dry filters, weekly observations shall be made of the overspray while in operation. Section C - Response to Excursions or Exceedances of this permit contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

- (b) Monthly inspections shall be performed of the coating emissions from the stack and the presence of overspray on the rooftops and the nearby ground. During periods of inclement weather, these inspections shall be performed as weather permits. Section C - Response to Excursions or Exceedances of this permit contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

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

D.3.14 Record Keeping Requirements

- (a) To document the compliance status with Conditions D.3.1, D.3.2, D.3.3 and D.3.4, the Permittee shall maintain records in accordance with (1) through (3) below. Records maintained for (1) through (3) shall be taken monthly and shall be complete and sufficient to establish the compliance status with the VOC usage limits and/or the VOC emission limits established in Conditions D.3.1, D.3.2, D.3.3 and D.3.4:
- (1) The amount and VOC content of each ink, fountain solution, coating material and solvent used. Records shall include purchase orders, invoices, material safety data sheets (MSDS) or other documentation necessary to verify the type and amount used. Ink usage records shall indicate whether the ink was used in heatset or nonheatset mode. Solvent usage records shall differentiate between those used in coatings and ink and those used as cleanup solvents;
 - (2) The total VOC usage for each month at each facility; and
 - (3) The weight of VOCs emitted from each facility for each compliance period.
- (b) To document the compliance status with Condition D.3.12, the Permittee shall maintain a log of daily inspections, weekly observations, and monthly inspections.
- (c) To document the compliance status with Condition D.3.10 and D.3.11, the Permittee shall maintain the continuous temperature records for the thermal oxidizers and the temperature used to demonstrate compliance during the most recent compliance stack test and weekly records of the duct pressure or fan amperage.
- (d) Section C - General Record Keeping Requirements of this permit contains the Permittee's obligation with regards to the records required by this condition.

D.3.15 Reporting Requirements

A quarterly summary of the information to document the compliance status with Conditions D.3.1, D.3.2, D.3.3 and D.3.4 shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting of this permit contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY**

**PART 70 OPERATING PERMIT
CERTIFICATION**

Source Name: R. R. Donnelley & Sons Company
Source Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
Mailing Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
Part 70 Permit No.: T 107-23664-00052

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
MC61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
Phone: 317-233-0178
Fax: 317-233-6865**

**PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT**

Source Name: R. R. Donnelley & Sons Company
Source Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
Mailing Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
Part 70 Permit No.: T 107-23664-00052

This form consists of 2 pages

Page 1 of 2

<input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12)
X The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and
X 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 Describe:
Type of Pollutants Emitted: TSP, PM-10, SO ₂ , VOC, NO _x , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

A certification is not required for this report.

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

Part 70 Quarterly Report

Source Name: R. R. Donnelley & Sons Company
 Source Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Mailing Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Part 70 Permit No.: T 107-23664-00052
 Facility: Two (2) heatset web offset lithographic printing presses, identified as Presses 263 and 264, and one (1) nonheatset sheetfed lithographic printing press, identified as Press 252
 Parameter: VOC Emissions
 Limit: Less than 39 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

For Presses 263 and 264:

VOC emissions (tpy) = (ink usage * VOC content * 80% flash-off * 3% emitted after controls) + (fountain solution usage * VOC content * 100% flash-off * 32.1% emitted after controls) + (manual cleaner usage * VOC content * 50% flash-off)

For Press 252:

VOC emissions (tpy) = (ink usage * VOC content * 5% flash-off) + (fountain solution usage * VOC content * 100% flash-off) + (manual cleaner usage * VOC content * 50% flash-off) + (automatic cleaner usage * VOC content * 100% flash-off) + (aqueous coating usage * VOC content * 100% flash-off)

QUARTER: _____ YEAR: _____

Month	VOC Emissions (tons)	VOC Emissions (tons)	VOC Emissions (tons)
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

Submitted by: _____
 Title/Position: _____
 Signature: _____
 Date: _____
 Phone: _____

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

Part 70 Quarterly Report

Source Name: R. R. Donnelley & Sons Company
 Source Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Mailing Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Part 70 Permit No.: T 107-23664-00052
 Facility: One (1) press, identified as Press 240
 Parameter: VOC Emissions
 Limit: Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month. For each press, VOC emitted shall be based on the following equation:

VOC emissions (tons) =
 (ink usage in heatset mode (tons) * VOC content * 80% flash off) +
 (ink usage in nonheatset mode (tons) * VOC content * 5% flash off) +
 (fountain solution usage (tons) * VOC content * 100% flash off) +
 (manual cleaner usage (tons) * VOC content * 50% flash off) +
 (automatic cleaner usage (tons) * VOC content * 100% flash off)

QUARTER: _____ YEAR: _____

Month	VOC Emissions (tons)	VOC Emissions (tons)	VOC Emissions (tons)
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

Submitted by: _____
 Title/Position: _____
 Signature: _____
 Date: _____
 Phone: _____

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

Part 70 Quarterly Report

Source Name: R. R. Donnelley & Sons Company
 Source Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Mailing Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Part 70 Permit No.: T 107-23664-00052
 Facility: One (1) press, identified as Press 281
 Parameter: VOC Emissions
 Limit: Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month. For each press, VOC emitted shall be based on the following equation:

VOC emissions (tons) =
 (ink usage in heatset mode (tons) * VOC content * 80% flash off) +
 (ink usage in nonheatset mode (tons) * VOC content * 5% flash off) +
 (fountain solution usage (tons) * VOC content * 100% flash off) +
 (manual cleaner usage (tons) * VOC content * 50% flash off) +
 (automatic cleaner usage (tons) * VOC content * 100% flash off)

QUARTER: _____ YEAR: _____

Month	VOC Emissions (tons)	VOC Emissions (tons)	VOC Emissions (tons)
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

Submitted by: _____
 Title/Position: _____
 Signature: _____
 Date: _____
 Phone: _____

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

Part 70 Quarterly Report

Source Name: R. R. Donnelley & Sons Company
 Source Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Mailing Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Part 70 Permit No.: T 107-23664-00052
 Facility: One (1) press, identified as Press 245
 Parameter: VOC Emissions
 Limit: Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month. For each press, VOC emitted shall be based on the following equation:

VOC emissions (tons) =
 (ink usage in heatset mode (tons) * VOC content * 80% flash off) +
 (ink usage in nonheatset mode (tons) * VOC content * 5% flash off) +
 (fountain solution usage (tons) * VOC content * 100% flash off) +
 (manual cleaner usage (tons) * VOC content * 50% flash off) +
 (automatic cleaner usage (tons) * VOC content * 100% flash off)

QUARTER: _____ YEAR: _____

Month	VOC Emissions (tons)	VOC Emissions (tons)	VOC Emissions (tons)
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

Submitted by: _____
 Title/Position: _____
 Signature: _____
 Date: _____
 Phone: _____

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

Part 70 Quarterly Report

Source Name: R. R. Donnelley & Sons Company
 Source Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Mailing Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Part 70 Permit No.: T 107-23664-00052
 Facility: One (1) press, identified as Press 290
 Parameter: VOC Emissions
 Limit: Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month. For each press, VOC emitted shall be based on the following equation:

VOC emissions (tons) =
 (ink usage in heatset mode (tons) * VOC content * 80% flash off) +
 (ink usage in nonheatset mode (tons) * VOC content * 5% flash off) +
 (fountain solution usage (tons) * VOC content * 100% flash off) +
 (manual cleaner usage (tons) * VOC content * 50% flash off) +
 (automatic cleaner usage (tons) * VOC content * 100% flash off)

QUARTER: _____ YEAR: _____

Month	VOC Emissions (tons)	VOC Emissions (tons)	VOC Emissions (tons)
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

Submitted by: _____
 Title/Position: _____
 Signature: _____
 Date: _____
 Phone: _____

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

Part 70 Quarterly Report

Source Name: R. R. Donnelley & Sons Company
 Source Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Mailing Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Part 70 Permit No.: T 107-23664-00052
 Facility: One (1) press, identified as Press 291
 Parameter: VOC Emissions
 Limit: Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month. For each press, VOC emitted shall be based on the following equation:

VOC emissions (tons) =
 (ink usage in heatset mode (tons) * VOC content * 80% flash off) +
 (ink usage in nonheatset mode (tons) * VOC content * 5% flash off) +
 (fountain solution usage (tons) * VOC content * 100% flash off) +
 (manual cleaner usage (tons) * VOC content * 50% flash off) +
 (automatic cleaner usage (tons) * VOC content * 100% flash off)

QUARTER: _____ YEAR: _____

Month	VOC Emissions (tons)	VOC Emissions (tons)	VOC Emissions (tons)
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

Submitted by: _____
 Title/Position: _____
 Signature: _____
 Date: _____
 Phone: _____

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

Part 70 Quarterly Report

Source Name: R. R. Donnelley & Sons Company
 Source Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Mailing Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Part 70 Permit No.: T 107-23664-00052
 Facility: One (1) press, identified as Press 293
 Parameter: VOC Emissions
 Limit: Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month. For each press, VOC emitted shall be based on the following equation:

VOC emissions (tons) =
 (ink usage in heatset mode (tons) * VOC content * 80% flash off) +
 (ink usage in nonheatset mode (tons) * VOC content * 5% flash off) +
 (fountain solution usage (tons) * VOC content * 100% flash off) +
 (manual cleaner usage (tons) * VOC content * 50% flash off) +
 (automatic cleaner usage (tons) * VOC content * 100% flash off)

QUARTER: _____ YEAR: _____

Month	VOC Emissions (tons)	VOC Emissions (tons)	VOC Emissions (tons)
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

Submitted by: _____
 Title/Position: _____
 Signature: _____
 Date: _____
 Phone: _____

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

Part 70 Quarterly Report

Source Name: R. R. Donnelley & Sons Company
Source Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
Mailing Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
Part 70 Permit No.: T 107-23664-00052
Facility: One (1) press, identified as Press 294
Parameter: VOC Emissions
Limit: Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month. For each press, VOC emitted shall be based on the following equation:

VOC emissions (tons) =
(ink usage in heatset mode (tons) * VOC content * 80% flash off) +
(ink usage in nonheatset mode (tons) * VOC content * 5% flash off) +
(fountain solution usage (tons) * VOC content * 100% flash off) +
(manual cleaner usage (tons) * VOC content * 50% flash off) +
(automatic cleaner usage (tons) * VOC content * 100% flash off)

QUARTER: _____ YEAR: _____

Month	VOC Emissions (tons)	VOC Emissions (tons)	VOC Emissions (tons)
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

Submitted by: _____
Title/Position: _____
Signature: _____
Date: _____
Phone: _____

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

Part 70 Quarterly Report

Source Name: R. R. Donnelley & Sons Company
 Source Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Mailing Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Part 70 Permit No.: T 107-23664-00052
 Facility: One (1) press, identified as Press 295
 Parameter: VOC Emissions
 Limit: Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month. For each press, VOC emitted shall be based on the following equation:

VOC emissions (tons) =
 (ink usage in heatset mode (tons) * VOC content * 80% flash off) +
 (ink usage in nonheatset mode (tons) * VOC content * 5% flash off) +
 (fountain solution usage (tons) * VOC content * 100% flash off) +
 (manual cleaner usage (tons) * VOC content * 50% flash off) +
 (automatic cleaner usage (tons) * VOC content * 100% flash off)

QUARTER: _____ YEAR: _____

Month	VOC Emissions (tons)	VOC Emissions (tons)	VOC Emissions (tons)
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

Submitted by: _____
 Title/Position: _____
 Signature: _____
 Date: _____
 Phone: _____

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

Part 70 Quarterly Report

Source Name: R. R. Donnelley & Sons Company
 Source Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Mailing Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Part 70 Permit No.: T 107-23664-00052
 Facility: One (1) press, identified as Press 296
 Parameter: VOC Emissions
 Limit: Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month. For each press, VOC emitted shall be based on the following equation:

VOC emissions (tons) =
 (ink usage in heatset mode (tons) * VOC content * 80% flash off) +
 (ink usage in nonheatset mode (tons) * VOC content * 5% flash off) +
 (fountain solution usage (tons) * VOC content * 100% flash off) +
 (manual cleaner usage (tons) * VOC content * 50% flash off) +
 (automatic cleaner usage (tons) * VOC content * 100% flash off)

QUARTER: _____ YEAR: _____

Month	VOC Emissions (tons)	VOC Emissions (tons)	VOC Emissions (tons)
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

Submitted by: _____
 Title/Position: _____
 Signature: _____
 Date: _____
 Phone: _____

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

Part 70 Quarterly Report

Source Name: R. R. Donnelley & Sons Company
 Source Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Mailing Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Part 70 Permit No.: T 107-23664-00052
 Facility: Two (2) presses, identified as Press 242 and Press 243
 Parameter: Total VOC Emissions
 Limit: Less than 39 tons per twelve (12) consecutive month period with compliance determined at the end of each month. For each press, VOC emitted shall be based on the following equation:

VOC emissions (tons) =
 (ink usage in heatset mode (tons) * VOC content * 80% flash off) +
 (ink usage in nonheatset mode (tons) * VOC content * 5% flash off) +
 (fountain solution usage (tons) * VOC content * 100% flash off) +
 (manual cleaner usage (tons) * VOC content * 50% flash off) +
 (automatic cleaner usage (tons) * VOC content * 100% flash off)

QUARTER: _____ YEAR: _____

Month	VOC Emissions (tons)	VOC Emissions (tons)	VOC Emissions (tons)
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

Submitted by: _____
 Title/Position: _____
 Signature: _____
 Date: _____
 Phone: _____

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

Part 70 Quarterly Report

Source Name: R. R. Donnelley & Sons Company
 Source Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Mailing Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Part 70 Permit No.: T 107-23664-00052
 Facility: One (1) press, identified as 242
 Parameter: VOC Emissions
 Limit: Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month. For each press, VOC emitted shall be based on the following equation:

VOC emissions (tons) =
 (ink usage in heatset mode (tons) * VOC content * 80% flash off) +
 (ink usage in nonheatset mode (tons) * VOC content * 5% flash off) +
 (fountain solution usage (tons) * VOC content * 100% flash off) +
 (manual cleaner usage (tons) * VOC content * 50% flash off) +
 (automatic cleaner usage (tons) * VOC content * 100% flash off)

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

Submitted by: _____
 Title/Position: _____
 Signature: _____
 Date: _____
 Phone: _____

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

Part 70 Quarterly Report

Source Name: R. R. Donnelley & Sons Company
Source Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
Mailing Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
Part 70 Permit No.: T 107-23664-00052
Facility: One (1) press, identified as 243
Parameter: VOC Emissions
Limit: Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month. For each press, VOC emitted shall be based on the following equation:

$$\begin{aligned} \text{VOC emissions (tons) =} & \\ & (\text{ink usage in heatset mode (tons) * VOC content * 80\% flash off}) + \\ & (\text{ink usage in nonheatset mode (tons) * VOC content * 5\% flash off}) + \\ & (\text{fountain solution usage (tons) * VOC content * 100\% flash off}) + \\ & (\text{manual cleaner usage (tons) * VOC content * 50\% flash off}) + \\ & (\text{automatic cleaner usage (tons) * VOC content * 100\% flash off}) \end{aligned}$$

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

Submitted by: _____
Title/Position: _____
Signature: _____
Date: _____
Phone: _____

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

Part 70 Quarterly Report

Source Name: R. R. Donnelley & Sons Company
 Source Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Mailing Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Part 70 Permit No.: T 107-23664-00052
 Facility: Press 287
 Parameter: VOC Emissions
 Limit: Less than 40 tons per twelve (12) consecutive month period, total, with compliance determined at the end of each month. VOC emitted shall be based on the following equation:

VOC emissions (tons) =
 (ink usage in heatset mode (tons) * VOC content * 80% flash off) +
 (ink usage in nonheatset mode (tons) * VOC content * 5% flash off) +
 (fountain solution usage (tons) * VOC content * 100% flash off) +
 (manual cleaner usage (tons) * VOC content * 50% flash off) +
 (automatic cleaner usage (tons) * VOC content * 100% flash off)

QUARTER: _____ YEAR: _____

Month	VOC Emissions (tons)	VOC Emissions (tons)	VOC Emissions (tons)
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

Submitted by: _____
 Title/Position: _____
 Signature: _____
 Date: _____
 Phone: _____

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

Part 70 Quarterly Report

Source Name: R. R. Donnelley & Sons Company
 Source Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Mailing Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Part 70 Permit No.: T 107-23664-00052
 Facility: One (1) press, identified as Press 286
 Parameter: VOC Emissions
 Limit: Less than 40 tons per twelve (12) consecutive month period with compliance determined at the end of each month. For each press, VOC emitted shall be based on the following equation:

VOC emissions (tons) =
 (ink usage in heatset mode (tons) * VOC content * 80% flash off) +
 (ink usage in nonheatset mode (tons) * VOC content * 5% flash off) +
 (fountain solution usage (tons) * VOC content * 100% flash off) +
 (manual cleaner usage (tons) * VOC content * 50% flash off) +
 (automatic cleaner usage (tons) * VOC content * 100% flash off)

QUARTER: _____ YEAR: _____

Month	VOC Emissions (tons)	VOC Emissions (tons)	VOC Emissions (tons)
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

Submitted by: _____
 Title/Position: _____
 Signature: _____
 Date: _____
 Phone: _____

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

Part 70 Quarterly Report

Source Name: R. R. Donnelley & Sons Company
 Source Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Mailing Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Part 70 Permit No.: T 107-23664-00052
 Facility: One (1) press, identified as Press 270
 Parameter: VOC Emissions
 Limit: Less than 40 tons per twelve (12) consecutive month period with compliance determined at the end of each month. For each press, VOC emitted shall be based on the following equation:

VOC emissions (tons) =
 (ink usage in heatset mode (tons) * VOC content * 80% flash off) +
 (ink usage in nonheatset mode (tons) * VOC content * 5% flash off) +
 (fountain solution usage (tons) * VOC content * 100% flash off) +
 (manual cleaner usage (tons) * VOC content * 50% flash off) +
 (automatic cleaner usage (tons) * VOC content * 100% flash off)

QUARTER: _____ YEAR: _____

Month	VOC Emissions (tons)	VOC Emissions (tons)	VOC Emissions (tons)
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

Submitted by: _____
 Title/Position: _____
 Signature: _____
 Date: _____
 Phone: _____

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

Part 70 Quarterly Report

Source Name: R. R. Donnelley & Sons Company
Source Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
Mailing Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
Part 70 Permit No.: T 107-23664-00052
Facility: In-line Stainer 192
Parameter: VOC Usage
Limit: Less than twenty-five (25) tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

QUARTER: _____ YEAR: _____

Month	VOC Usage (tons)	VOC Usage (tons)	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

Submitted by: _____
Title/Position: _____
Signature: _____
Date: _____
Phone: _____

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

Part 70 Quarterly Report

Source Name: R.R. Donnelley & Sons Company
 Source Address: 1009 Sloan Street, Crawfordsville, IN 47933-2743
 Mailing Address: 1009 Sloan Street, Crawfordsville, IN 47933-2743
 Part 70 Permit No.: T107-5963-00052
 Facility: Press 210, Press 211, Press 212, Press 213, Press 214, Press 215, and Press 251
 Parameter: VOC Emissions
 Limit: Total VOC emissions shall not exceed a combined 39 tons per year, based on the following equation:

For presses 210 through 215, VOC emissions =
 (ink usage in heatset mode * VOC content * 80% flash off * 3% emitted after controls) +
 (ink usage in nonheatset mode * VOC content * 5% flash off) +
 (fountain solution usage in heatset mode * VOC content * 100% flash off *
 32.1% emitted after controls) +
 (fountain solution usage in nonheatset mode * VOC content * 100% flash off) +
 (manual cleaner usage * VOC content * 50% flash off) +
 (automatic cleaner usage in heatset mode * VOC content * 61.2% emitted after controls) +
 (automatic cleaner usage in nonheatset mode * VOC content * 100% flash off)

For press 251, VOC emissions =
 (ink usage * VOC content * 5% flash off) +
 (fountain solution usage * VOC content * 100% flash off) +
 (manual cleaner usage * VOC content * 50% flash off) +
 (automatic cleaner usage * VOC content * 100% flash off)

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

**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: R. R. Donnelley & Sons Company
Source Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
Mailing Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
Part 70 Permit No.: T 107-23664-00052

Months: _____ to _____ Year: _____

Page 1 of 2

<p>This report shall be submitted quarterly based on a calendar year. 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".</p>	
<input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.	
<input type="checkbox"/> 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 and
Significant Permit Modification**

Source Description and Location

Source Name:	R.R. Donnelley & Sons Company
Source Location:	600 State Road 32 West, Crawfordsville, Indiana 47933-2741
County:	Montgomery
SIC Code:	2732
Operation Permit No.:	T107-23664-00052
Operation Permit Issuance Date:	November 7, 2008
Significant Source Modification No.:	107-28887-00052
Significant Permit Modification No.:	107-28896-00052
Permit Reviewer:	Stephanie Wilkerson

Source Definition

This stationary book printing and binding source consists of two (2) plants:

- (a) North Plant is located at 1009 Sloan Street, Crawfordsville, Indiana; and
- (b) South Plant is located at State Road 32 West, Crawfordsville, Indiana.

These two (2) plants are located adjacent to each other, separated by a public road and a railroad right of way, have the same SIC codes and are owned by one (1) company. Therefore, they will be considered one (1) major source, as defined by 326 IAC 2-7-1(22).

Existing Approvals

The source was issued Part 70 Operating Permit Renewal No. 107-23664-00052 on November 7, 2008. The source has not received any approvals since that date.

County Attainment Status

The source is located in Montgomery County.

Pollutant	Designation
SO ₂	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O ₃	Unclassifiable or attainment effective June 15, 2004, for the 8-hour ozone standard. ¹
PM ₁₀	Unclassifiable effective November 15, 1990.
NO ₂	Cannot be classified or better than national standards.
Pb	Not designated.
¹ Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005. Unclassifiable or attainment effective April 5, 2005, for PM _{2.5} .	

(a) Ozone Standards

- (1) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 revoking the one-hour ozone standard in Indiana.
- (2) On September 6, 2007, the Indiana Air Pollution Control Board finalized a temporary emergency rule to re-designate Allen, Clark, Elkhart, Floyd, LaPorte, and St. Joseph Counties as attainment for the 8-hour ozone standard.
- (3) On November 9, 2007, the Indiana Air Pollution Control Board finalized a temporary emergency rule to re-designate Boone, Hamilton, Hancock, Hendricks, Johnson, Madison, Marion, Morgan, and Shelby Counties as attainment for the 8-hour ozone standard.
- (4) Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to ozone. Montgomery County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(b) PM_{2.5}

Montgomery County has been classified as attainment for PM_{2.5}. On May 8, 2008, U.S. EPA promulgated the requirements for Prevention of Significant Deterioration (PSD) for PM_{2.5} emissions, and the effective date of these rules is July 15, 2008. Indiana has three (3) years from the publication of these rules to revise its PSD rules, 326 IAC 2-2, to include those requirements. The May 8, 2008 rule revisions require IDEM to regulate PM₁₀ emissions as a surrogate for PM_{2.5} emissions until 326 IAC 2-2 is revised.

(c) Other Criteria Pollutants

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

(d) Fugitive Emissions

Since this type of operation is not one (1) of the twenty-eight (28) listed source categories under 326 IAC 2-2, fugitive emissions are not counted toward the determination of PSD applicability.

Source Status

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

Pollutant	Emissions (ton/yr)
PM	294
PM ₁₀	300
PM _{2.5}	300
SO ₂	0.932
VOC	3878
CO	130
NO _x	231

HAPs	Potential To Emit (ton/yr)
Total	32.0

- (a) This existing source is a major stationary source, under PSD (326 IAC 2-2), because at least one (1) regulated pollutant is emitted at a rate of 250 tons per year or more, and it is not one (1) of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).
- (b) This existing source is a major source of HAPs, as defined in 40 CFR 63.2, because HAP emissions are greater than ten (10) tons per year for a single HAP and greater than twenty-five (25) tons per year for a combination of HAPs. Therefore, this source is a major source under Section 112 of the Clean Air Act (CAA).
- (c) These emissions are based upon the Technical Support Document for Part 70 Operating Permit Renewal No. 107--23664-00052, issued on November 7, 2008.

Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed a modification application, submitted by R. R. Donnelley & Sons Company on January 19, 2010, relating to the addition of two (2) new heatset web offset lithographic printing presses and one (1) new non-heatset sheet-fed printing press. The following is a list of the proposed emission units:

- (a) One (1) Heidelberg heatset web offset lithographic printing press, identified as Press 263, with VOC emissions controlled by a natural gas-fired regenerative thermal oxidizer system, exhausting through stacks SP-5T(S), SP-7A(S), and/or SP-7B(S), maximum line speed: 1,200 feet per minute, maximum printing width: 34 inches, with associated in-line equipment;
- (b) One (1) Heidelberg heatset web offset lithographic printing press, identified as Press 264, with VOC emissions controlled by a natural gas-fired regenerative thermal oxidizer system, exhausting through stacks SP-5T(S), SP-7A(S), and/or SP-7B(S), maximum line speed: 1,200 feet per minute, maximum printing width: 34 inches, with associated in-line equipment; and
- (c) One (1) nonheatset sheetfed offset lithographic printing press, identified as Press 252, with a maximum capacity of 13,000 sheets (14.56 million square inches) per hour, exhausting to stack SP-10C.

Additionally, the source requested that the following units be removed from the permit. These units have been completely dismantled and removed from the source.

- (a) One (1) Harris web offset lithographic printing press, identified as Press 288, constructed in 1979, exhausting through stack SP-5N(N), with four (4) units and two (2) webs, maximum line speed: 825 feet per minute, maximum printing width: 31 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode;
- (b) One (1) Harris web offset lithographic printing press, identified as Press 289, constructed in 1984, exhausting through stack SP-5O(N), with four (4) units and two (2) webs, maximum line speed: 825 feet per minute, maximum printing width: 31 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode;
- (c) One (1) Heidelberg UV sheetfed offset lithographic press, identified as Press 232, constructed in 1991, exhausting through stack SP-5U(N), maximum line speed: 317 feet per minute, maximum printing width: 25.5 inches, including five (5) units and coater;
- (d) One (1) Heidelberg UV sheetfed offset lithographic press, identified as Press 233, constructed in 1991, exhausting through stack SP-5U(N), maximum line speed: 317 feet per minute, maximum printing width: 25.5 inches, including five (5) units and coater;
- (e) One (1) Heidelberg UV sheetfed offset lithographic press, identified as Press 238, constructed in 1990, exhausting through stack SP-5V(N), maximum line speed: 434 feet per minute, maximum printing width: 40 inches, including six (6) units and coater; and
- (f) One (1) Heidelberg UV sheetfed offset lithographic press, identified as Press 239.

Enforcement Issues

There are no pending enforcement actions related to this modification.

Emission Calculations

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

Permit Level Determination – Part 70

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as “the maximum capacity of a stationary source or emission unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA, IDEM, or the appropriate local air pollution control agency.”

The following tables are used to determine the appropriate permit level under 326 IAC 2-7-10.5. This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

PTE Before Controls of the Modification	
Pollutant	Potential To Emit (ton/yr)
PM	-
PM ₁₀	-
PM _{2.5}	-
SO ₂	-
VOC	375.05
CO	-
NO _x	-

HAP PTE Before Controls of the Modification	
HAPs	Potential To Emit (ton/yr)
Manganese Compounds	0.11
Ethylene Glycol	1.55
Listed Glycol Ethers	6.19
Xylenes	0.35
Cumene	0.26
TOTAL	8.46

This source modification is subject to 326 IAC 2-7-10.5(f)(4), as the potential VOC emissions are greater than twenty-five (25) tons per year. Additionally, the modification will be incorporated into the Part 70 Operating Permit through a significant permit modification issued pursuant to 326 IAC 2-7-12(d) because two (2) of the units proposed are subject to the requirements of 326 IAC 8-1-6 (Best Available Control Technology (BACT)), a case-by-case standard determination.

Permit Level Determination – PSD

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

Process / Emission Unit	Potential to Emit (ton/yr)					
	PM	PM₁₀	SO₂	VOC	CO	NO_x
Press 252	-	-	-	22.21	-	-
Press 263	-	-	-	12.57	-	-
Press 264	-	-	-	12.57	-	-
Total for Modification	-	-	-	47.36		
PSD Significance Level	N/A	N/A	N/A	40	N/A	N/A

Since this source is considered a major PSD source and the unrestricted potential to emit of this modification is greater than 40 tons of VOC per year, this source has elected to limit the potential to emit of this modification as follows:

- (a) The amount of VOC delivered to the substrate and the amount of VOC used for cleanup shall be limited such that VOC emitted after controls from the two (2) heatset web offset

lithographic printing presses, identified as Presses 263 and 264, and the one (1) nonheatset sheetfed lithographic printing press, identified as Press 252, does not exceed 39 tons per twelve (12) month period, with compliance determined at the end of each month.

Compliance with these emission limits will ensure that the potential to emit from this modification is less than 40 tons of VOC per year and therefore will render the requirements of 326 IAC 2-2 not applicable.

Federal Rule Applicability Determination

NSPS:

- (a) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) applicable to this proposed modification:
- (1) The three (3) proposed printing presses are not subject to the requirements of the New Source Performance Standard for the Graphic Arts Industry: Publication Rotogravure Printing (40 CFR 60, Subpart QQ), as these presses are lithographic presses, and not publication rotogravure printing presses. Therefore, these requirements are not included in this modification.
 - (2) The three (3) proposed printing presses are not subject to the requirements of the New Source Performance Standard for Flexible Vinyl and Urethane Coating and Printing (40 CFR 60, Subpart FFF), because this rule is applicable to rotogravure printing lines, not lithographic presses. Therefore, these requirements are not included in this modification.
 - (3) The three (3) proposed printing presses are not subject to the requirements of the New Source Performance Standard for Polymeric Coating of Supporting Substrates Facilities (40 CFR 60, Subpart VVV). Pursuant to 40 CFR 60.740(d)(3), web coating operations that print an image onto the surface of the substrate are not subject to this rule. Therefore, these requirements are not included in this modification.

NESHAP:

- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) applicable to this proposed modification:
- (1) The three (3) proposed printing presses are not subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) the Printing and Publishing Industry (40 CFR 63, Subpart KK). Pursuant to 40 CFR 63.820(a)(1), this rule applies to the operation of publication rotogravure, product and packaging rotogravure, or wide-web flexographic printing presses, not lithographic printing processes. Therefore, these requirements are not included in this modification.
 - (2) The three (3) proposed printing presses are not subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Paper and Other Web Coating (40 CFR 63, Subpart JJJJ). Pursuant to 40 CFR 63.3300(c), lithographic printing processes are not subject to this rule. Therefore, these requirements are not included in this modification.
 - (3) The three (3) proposed printing presses are not subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Printing, Coating, and Dyeing of Fabrics and Other Textiles (40 CFR 63, Subpart OOOO), as these presses do not coat fabrics or textiles. Therefore, these requirements are not included in this modification.

- (d) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is applicable to each new or modified pollutant-specific emission unit that meets the following criteria:
- (1) has a potential to emit before controls equal to or greater than the Part 70 major source threshold for the pollutant involved;
 - (2) is subject to an emission limitation or standard for that pollutant; and
 - (3) uses a control device, as defined in 40 CFR 64.1, to comply with that emission limitation or standard.

The following table is used to identify the applicability of each of the criteria, under 40 CFR 64.1, to each new or modified emission unit involved:

CAM Applicability Analysis							
Emission Unit	Control Device Used	Emission Limitation (Y/N)	Uncontrolled PTE (ton/yr)	Controlled PTE (ton/yr)	Part 70 Major Source Threshold (ton/yr)	CAM Applicable (Y/N)	Large Unit (Y/N)
Press 252 - VOC	N	Y	22.21	22.21	100	N	N
Press 263 - VOC	Y	Y	176.42	12.57	100	Y	N
Press 264 - VOC	Y	Y	176.42	12.57	100	Y	N

Based on this evaluation, the requirements of 40 CFR Part 64, CAM are applicable to Presses 263 and 264 for VOC upon issuance of the Title V Renewal. A CAM plan has been submitted and the Compliance Determination and Monitoring Requirements section includes a detailed description of the CAM requirements.

State Rule Applicability Determination

326 IAC 2-2 (PSD)

PSD applicability is discussed under the Permit Level Determination – PSD section.

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))

The operation of each proposed printing press will emit less than ten (10) tons per year for a single HAP and less than twenty-five (25) tons per year for a combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply.

326 IAC 8-1-6 (Best Available Control Technology (BACT))

- (a) The potential to emit VOC from the one (1) proposed nonheatset sheetfed lithographic printing press is less than twenty-five (25) tons per year. Therefore, the requirements of 326 IAC 8-1-6 (BACT) are not applicable to this press.
- (b) The potential to emit VOC from each proposed heatset web offset lithographic printing press, identified as Presses 263 and 264, is greater than twenty-five (25) tons per year, and no other rule under 326 IAC 8 applies. Therefore, the operation of the two (2) presses is subject to the requirements of 326 IAC 8-1-6 (BACT). A detailed BACT analysis is included as a Appendix A to this Technical Support Document.

Pursuant to 326 IAC 8-1-6 (BACT), IDEM has determined that the best available control technology (BACT) to control VOC emissions from the two (2) proposed heatset web offset lithographic printing presses, identified as Presses 263 and 264, shall be as follows:

- (a) When operating in heatset mode, the VOC emissions from Presses 263 and 264 shall be controlled by the thermal oxidizer system, consisting of one (1) to three (3) operating regenerative thermal oxidizers identified as RTO-1, RTO-2, and RTO-3.
- (b) Presses 263 and 264 shall not be operated in heatset mode until such time that the combustion temperature(s) in the thermal oxidizer system has attained the minimum temperature(s) determined in testing requirements to destroy at least 97% of captured VOC.
- (c) The VOC content of the fountain solution shall not exceed 3% VOC as applied;
- (d) The blanket and roller washes shall have a vapor pressure no greater than 10 mmHg at 20°C or the VOC content shall be limited to 2.5 lb/gal as applied;
- (e) The manual cleaning solvents shall have a vapor pressure no greater than 25 mmHg at 20°C or the VOC content shall be limited to 2.5 lb/gal as applied; and
- (f) The capture and retention efficiencies used for reporting compliance shall be as follows and are based on U.S. EPA's "Alternative Control Techniques Document: Offset Lithographic Printing" (EPA 453/R-94-054, June 1994):
 - (1) 100% capture, by weight, of the VOC in press-ready inks;
 - (2) 70% capture, by weight, of the VOC in press-ready fountain solutions;
 - (3) 20% retention, by weight, of VOC in inks in the paper substrate; and
 - (4) 50% retention, by weight, of manual cleaning solvents in the cleaning wipers. Cleaning wipers shall always be placed in closed containers after use.

Compliance with the above limits and conditions will satisfy the requirements of 326 IAC 8-1-6 (BACT).

Compliance Determination and Monitoring Requirements

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

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

Changes to the compliance determination and monitoring requirements are detailed in the Proposed Changes section of this document.

Proposed Changes

The changes listed below have been made to Part 70 Operating Permit No. 107-23664-00052. Deleted language appears as ~~strikethroughs~~ and new language appears in **bold**. All necessary changes to the Table of Contents has been made without reproduction herein.

Modification 1: The three (3) proposed printing presses are added to and the six (6) dismantled printing presses are removed from Sections A.3 and D.3 as follows. The lists have been renumbered as appropriate without reproduction herein.

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

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

...

~~(o) One (1) Harris web offset lithographic printing press, identified as Press 288, constructed in 1979, exhausting through stack SP-5N(N), with four (4) units and two (2) webs, maximum line speed: 825 feet per minute, maximum printing width: 31 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.~~

~~(p) One (1) Harris web offset lithographic printing press, identified as Press 289, constructed in 1984, exhausting through stack SP-5O(N), with four (4) units and two (2) webs, maximum line speed: 825 feet per minute, maximum printing width: 31 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.~~

~~(q) One (1) Heidelberg UV sheetfed offset lithographic press, identified as Press 232, constructed in 1991, exhausting through stack SP-5U(N), maximum line speed: 317 feet per minute, maximum printing width: 25.5 inches, including five (5) units and coater.~~

~~(r) One (1) Heidelberg UV sheetfed offset lithographic press, identified as Press 233, constructed in 1991, exhausting through stack SP-5U(N), maximum line speed: 317 feet per minute, maximum printing width: 25.5 inches, including five (5) units and coater.~~

~~(s) One (1) Heidelberg UV sheetfed offset lithographic press, identified as Press 238, constructed in 1990, exhausting through stack SP-5V(N), maximum line speed: 434 feet per minute, maximum printing width: 40 inches, including six (6) units and coater.~~

~~(t) One (1) Heidelberg UV sheetfed offset lithographic press, identified as Press 239, constructed in 1992, exhausting through stack SP-5W(N), maximum line speed: 473 feet per minute, maximum printing width: 40 inches, including two (2) units and coater.~~

...

(oo) One (1) Heidelberg heatset web offset lithographic printing press, identified as Press 263, with VOC emissions controlled by a natural gas-fired regenerative thermal oxidizer system, exhausting through stacks SP-5T(S), SP-7A(S), and/or SP-7B(S), maximum line speed: 1,200 feet per minute, maximum printing width: 34 inches, with associated in-line equipment;

(pp) One (1) Heidelberg heatset web offset lithographic printing press, identified as Press 264, with VOC emissions controlled by a natural gas-fired regenerative thermal oxidizer system, exhausting through stacks SP-5T(S), SP-7A(S), and/or SP-7B(S), maximum line speed: 1,200 feet per minute, maximum printing width: 34 inches, with associated in-line equipment; and

- (qq) **One (1) nonheatset sheetfed offset lithographic printing press, identified as Press 252, with a maximum capacity of 13,000 sheets (14.56 million square inches) per hour, exhausting to stack SP-10C.**

...
SECTION D.3

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Printing presses

North Plant:

...

- (o) One (1) Harris web offset lithographic printing press, identified as Press 288, constructed in 1979, exhausting through stack SP-5N(N), with four (4) units and two (2) webs, maximum line speed: 825 feet per minute, maximum printing width: 31 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (p) One (1) Harris web offset lithographic printing press, identified as Press 289, constructed in 1984, exhausting through stack SP-5O(N), with four (4) units and two (2) webs, maximum line speed: 825 feet per minute, maximum printing width: 31 inches, with associated in-line equipment. The press may operate in either a heatset or nonheatset mode.
- (q) One (1) Heidelberg UV sheetfed offset lithographic press, identified as Press 232, constructed in 1991, exhausting through stack SP-5U(N), maximum line speed: 317 feet per minute, maximum printing width: 25.5 inches including five (5) units and coater.
- (r) One (1) Heidelberg UV sheetfed offset lithographic press, identified as Press 233, constructed in 1991, exhausting through stack SP-5U(N), maximum line speed: 317 feet per minute, maximum printing width: 25.5 inches including five (5) units and coater.
- (s) One (1) Heidelberg UV sheetfed offset lithographic press, identified as Press 238, constructed in 1990, exhausting through stack SP-5V(N), maximum line speed: 434 feet per minute, maximum printing width: 40 inches including six (6) units and coater.
- (t) One (1) Heidelberg UV sheetfed offset lithographic press, identified as Press 239, constructed in 1992, exhausting through stack SP-5W(N), maximum line speed: 473 feet per minute, maximum printing width: 40 inches including two (2) units and coater.

South Plant:

...

- (ll) **One (1) Heidelberg heatset web offset lithographic printing press, identified as Press 263, with VOC emissions controlled by a natural gas-fired regenerative thermal oxidizer system, exhausting through stacks SP-5T(S), SP-7A(S), and/or SP-7B(S), maximum line speed: 1,200 feet per minute, maximum printing width: 34 inches, with associated in-line equipment;**
- (mm) **One (1) Heidelberg heatset web offset lithographic printing press, identified as Press 264, with VOC emissions controlled by a natural gas-fired regenerative thermal oxidizer system, exhausting through stacks SP-5T(S), SP-7A(S), and/or SP-7B(S), maximum line speed: 1,200 feet per minute, maximum printing width: 34 inches, with associated in-line equipment; and**
- (nn) **One (1) nonheatset sheetfed offset lithographic printing press, identified as Press 252, with a maximum capacity of 13,000 sheets (14.56 million square inches) per hour, exhausting to stack SP-10C.**

...

Modification 2: The requirements of 326 IAC 8-1-6 (BACT) for the two (2) proposed heatset web offset lithographic printing presses, identified as Presses 263 and 264, are incorporated into Condition D.3.1 as follows:

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

D.3.1 Volatile Organic Compounds (VOCs) [326 IAC 8-1-6] [326 IAC 2-7-10.5(d)(5)(A)]

...

(e) Pursuant to 326 IAC 8-1-6 and Significant Source Modification No. 107-28887-00052, IDEM has determined that the best available control technology (BACT) to control VOC emissions from the two (2) heatset web offset lithographic printing presses identified as Presses 263 and 264 shall be as follows:

- (1) When operating in heatset mode, the VOC emissions from Presses 263 and 264 shall be controlled by the thermal oxidizer system, consisting of one (1) to three (3) operating regenerative thermal oxidizers identified as RTO-1, RTO-2, and RTO-3.**
- (2) Presses 263 and 264 shall not be operated in heatset mode until such time that the combustion temperature(s) in the thermal oxidizer system has attained the minimum temperature(s) determined in testing requirements to destroy at least 97% of captured VOC.**
- (3) The VOC content of the fountain solution shall not exceed 3% VOC as applied;**
- (4) The blanket and roller washes shall have a vapor pressure no greater than 10 mmHg at 20°C or the VOC content shall be limited to 2.5 lb/gal as applied;**
- (5) The manual cleaning solvents shall have a vapor pressure no greater than 25 mmHg at 20°C or the VOC content shall be limited to 2.5 lb/gal as applied; and**
- (6) The capture and retention efficiencies used for reporting compliance shall be as follows and are based on U.S. EPA's "Alternative Control Techniques Document: Offset Lithographic Printing" (EPA 453/R-94-054, June 1994):**
 - (A) 100% capture, by weight, of the VOC in press-ready inks;**
 - (B) 70% capture, by weight, of the VOC in press-ready fountain solutions;**
 - (C) 20% retention, by weight, of VOC in inks in the paper substrate; and**
 - (D) 50% retention, by weight, of manual cleaning solvents in the cleaning wipers. Cleaning wipers shall always be placed in closed containers after use.**

Compliance with the above limits and conditions will satisfy the requirements of 326 IAC 8-1-6 (BACT).

Modification 3: The PSD Minor Limit for this modification is incorporated into Condition D.3.3 as follows:

D.3.3 Volatile Organic Compounds (VOCs) [326 IAC 2-2]

...

- (d) Pursuant to Significant Source Modification No. 107-28887-00052, the amount of VOC delivered to the substrate and the amount of VOC used for cleanup shall be limited such that VOC emitted after controls from the two (2) heatset web offset lithographic printing presses, identified as Presses 263 and 264, and the one (1) nonheatset sheetfed lithographic printing press, identified as Press 252, does not exceed 39 tons per twelve (12) month period, with compliance determined at the end of each month.

Compliance with these emission limits will ensure that the potential to emit from this modification is less than 40 tons of VOC per year and therefore will render the requirements of 326 IAC 2-2 not applicable.

Modification 4: The methods for determining compliance with the PSD Minor Limit for this modification are incorporated into the permit as follows. The remainder of the Section is renumbered as appropriate.

D.3.9 Volatile Organic Compounds (VOC)

To determine compliance with Condition D.3.3(d), VOC emissions shall be calculated using the following equations:

- (a) For Presses 263 and 264:

VOC emissions (tpy) = (ink usage * VOC content * 80% flash-off * 3% emitted after controls) + (fountain solution usage * VOC content * 100% flash-off * 32.1% emitted after controls) + (manual cleaner usage * VOC content * 50% flash-off)

- (b) For Press 252:

VOC emissions (tpy) = (ink usage * VOC content * 5% flash-off) + (fountain solution usage * VOC content * 100% flash-off) + (manual cleaner usage * VOC content * 50% flash-off) + (automatic cleaner usage * VOC content * 100% flash-off) + (aqueous coating usage * VOC content * 100% flash-off)

Modification 5: Presses 263 and 264 are incorporated into the Compliance Monitoring Requirements of the permit as follows:

D.3.910 Thermal Oxidizers [326 IAC 8-1-6] [40 CFR 64.1]

...

- (b) The regenerative thermal oxidizer system, consisting of one (1) to three (3) oxidizers identified as RTO-1, RTO-2 and/or RTO-3, shall operate at all times that any of ~~ten (10)~~ **twelve (12)** presses, identified as Press 260, Press 261, Press 262, Press 273, Press 210, Press 211, Press 212, Press 213, Press 214, and Press 215, **Press 263, and Press 264** are operating in heatset mode.

...

Modification 6: Reporting requirements to show compliance with Condition D.3.3 and the associated reporting form are added to the permit as follows:

D.3.1415 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.3.1, D.3.2, **D.3.3**, and D.3.4 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

...

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

Part 70 Quarterly Report

Source Name: R. R. Donnelley & Sons Company
Source Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
Mailing Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
Part 70 Permit No.: T 107-23664-00052
Facility: Two (2) heatset web offset lithographic printing presses, identified as Presses 263 and 264, and one (1) nonheatset sheetfed lithographic printing press, identified as Press 252
Parameter: VOC Emissions
Limit: Less than 39 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

For Presses 263 and 264:

VOC emissions (tpy) = (ink usage * VOC content * 80% flash-off * 3% emitted after controls) + (fountain solution usage * VOC content * 100% flash-off * 32.1% emitted after controls) + (manual cleaner usage * VOC content * 50% flash-off)

For Press 252:

VOC emissions (tpy) = (ink usage * VOC content * 5% flash-off) + (fountain solution usage * VOC content * 100% flash-off) + (manual cleaner usage * VOC content * 50% flash-off) + (automatic cleaner usage * VOC content * 100% flash-off) + (aqueous coating usage * VOC content * 100% flash-off)

QUARTER: _____ **YEAR:** _____

Month	VOC Emissions (tons)	VOC Emissions (tons)	VOC Emissions (tons)
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

Submitted by: _____
Title/Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

Modification 7: Requirements for Presses 288, 289, 232, 233, 238, and 239 have been removed from the permit as follows:

D.3.1 Volatile Organic Compounds (VOCs) [326 IAC 8-1-6] [326 IAC 2-7-10.5(d)(5)(A)]

(a) The ~~twelve (12)~~ **nine (9)** presses, identified as Press 240, Press 281, Press 245, ~~Press 289, Press 238, Press 239,~~ Press 290, Press 291, Press 293, Press 294, Press 295, and Press 296 shall be limited as follows:

...

~~(c) The VOC content delivered to the applicator of the two (2) presses, identified as Press 232 and Press 233, shall be limited such that VOC emitted is less than twenty-five (25) tons combined pressroom emissions from Press 232 and Press 233 (combined) per twelve (12) consecutive month period, with compliance determined at the end of each month. This renders the Best Available Control Technology (BACT) requirement in 326 IAC 8-1-6 (New Facilities: General Reduction Requirements) not applicable.~~

For these two presses, total VOC emitted shall be based on the following equation:

$$\begin{aligned} \text{VOC emissions (tons)} = & \\ & (\text{ink usage (tons)} * \text{VOC content} * 80\% \text{ flash off}) + \\ & (\text{fountain solution usage (tons)} * \text{VOC content} * 100\% \text{ flash off}) + \\ & (\text{manual cleaner usage (tons)} * \text{VOC content} * 50\% \text{ flash off}) \end{aligned}$$

~~Pursuant to AA 107-10512-00052, issued on March 15, 1999, the usage of isopropyl alcohol shall not exceed 750 pounds per consecutive twelve (12) month period as part of the fountain solution.~~

~~(dc)~~ Pursuant to CP 107-4233 issued April 20, 1995, total VOC content delivered to the applicator of the two (2) presses, identified as Press 242 and Press 243, shall be limited such that VOC emitted is less than a combined thirty-nine (39) tons per twelve (12) consecutive month period, with compliance determined at the end of each month. The total amount of VOC delivered to each press individually, including clean-up solvents, shall be limited such that VOC emitted is less than twenty-five (25) tons per twelve (12) consecutive month period, with compliance determined at the end of each month. This renders 326 IAC 2-2 and 326 IAC 8-1-6 not applicable.

...

D.3.3 Volatile Organic Compounds (VOCs) [326 IAC 2-2]

(a) The VOC content delivered to the applicators of Press 287 ~~and Press 288~~ shall be limited such that VOC emitted is less than forty (40) tons per twelve (12) consecutive month period, total, with compliance demonstrated at the end of each month. This renders the requirements of 326 IAC 2-2 not applicable.

...

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

Part 70 Quarterly Report

Source Name: ~~_____~~ R. R. Donnelley & Sons Company
Source Address: ~~_____~~ 1009 Sloan Street, Crawfordsville, Indiana 47933
Mailing Address: ~~_____~~ 1009 Sloan Street, Crawfordsville, Indiana 47933
Part 70 Permit No.: ~~_____~~ T 107-23664-00052
Facility: ~~_____~~ One (1) press, identified as Press 289
Parameter: ~~_____~~ VOC Emissions

Limit: _____ Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month. For each press, VOC emitted shall be based on the following equation:

$$\begin{aligned} \text{VOC emissions (tons)} = & \\ & (\text{ink usage in heatset mode (tons)} * \text{VOC content} * 80\% \text{ flash-off}) + \\ & (\text{ink usage in nonheatset mode (tons)} * \text{VOC content} * 5\% \text{ flash-off}) + \\ & (\text{fountain solution usage (tons)} * \text{VOC content} * 100\% \text{ flash-off}) + \\ & (\text{manual cleaner usage (tons)} * \text{VOC content} * 50\% \text{ flash-off}) + \\ & (\text{automatic cleaner usage (tons)} * \text{VOC content} * 100\% \text{ flash-off}) \end{aligned}$$

QUARTER: _____ YEAR: _____

Month	VOC Emissions (tons)	VOC Emissions (tons)	VOC Emissions (tons)
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

Submitted by: _____
 Title/Position: _____
 Signature: _____
 Date: _____
 Phone: _____

_____ Attach a signed certification to complete this report.

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

Part 70 Quarterly Report

Source Name: _____ R. R. Donnelley & Sons Company
 Source Address: _____ 1009 Sloan Street, Crawfordsville, Indiana 47933
 Mailing Address: _____ 1009 Sloan Street, Crawfordsville, Indiana 47933
 Part 70 Permit No.: _____ T 107-23664-00052
 Facility: _____ One (1) press, identified as Press 238
 Parameter: _____ VOC Emissions
 Limit: _____ Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month. For each press, VOC emitted shall be based on the following equation:

$$\begin{aligned} \text{VOC emissions (tons)} = & \\ & (\text{ink usage in heatset mode (tons)} * \text{VOC content} * 80\% \text{ flash off}) + \\ & (\text{ink usage in nonheatsset mode (tons)} * \text{VOC content} * 5\% \text{ flash off}) + \\ & (\text{fountain solution usage (tons)} * \text{VOC content} * 100\% \text{ flash off}) + \\ & (\text{manual cleaner usage (tons)} * \text{VOC content} * 50\% \text{ flash off}) + \\ & (\text{automatic cleaner usage (tons)} * \text{VOC content} * 100\% \text{ flash off}) \end{aligned}$$

QUARTER: _____ YEAR: _____

Month	VOC Emissions (tons)	VOC Emissions (tons)	VOC Emissions (tons)
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

Submitted by: _____
 Title/Position: _____
 Signature: _____
 Date: _____
 Phone: _____

_____ Attach a signed certification to complete this report.

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

Part 70 Quarterly Report

Source Name: R. R. Donnelley & Sons Company
 Source Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Mailing Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Part 70 Permit No.: T 107-23664-00052
 Facility: One (1) press, identified as Press 239
 Parameter: VOC Emissions
 Limit: Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month. For each press, VOC emitted shall be based on the following equation:

$$\begin{aligned} \text{VOC emissions (tons)} = & \\ & (\text{ink usage in heatset mode (tons)} * \text{VOC content} * 80\% \text{ flash off}) + \end{aligned}$$

(ink usage in nonheatset mode (tons) * VOC content * 5% flash off) +
 (fountain solution usage (tons) * VOC content * 100% flash off) +
 (manual cleaner usage (tons) * VOC content * 50% flash off) +
 (automatic cleaner usage (tons) * VOC content * 100% flash off)

QUARTER: _____ YEAR: _____

Month	VOC Emissions (tons)	VOC Emissions (tons)	VOC Emissions (tons)
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

_____ Attach a signed certification to complete this report.

...

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

Part 70 Quarterly Report

Source Name: R. R. Donnelley & Sons Company
 Source Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Mailing Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Part 70 Permit No.: T 107-23664-00052
 Facility: Two (2) presses, identified as Press 232 and Press 233
 Parameter: Total VOC Emissions
 Limit: Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month. For these two presses, total VOC emitted shall be based on the following equation:

_____ VOC emissions (tons) =
 (ink usage (tons) * VOC content * 80% flash off) +
 (fountain solution usage (tons) * VOC content * 100% flash off) +

(manual cleaner usage (tons) * VOC content * 50% flash off)

QUARTER: _____ YEAR: _____

Month	VOC Emissions (tons)	VOC Emissions (tons)	VOC Emissions (tons)
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.

Deviation has been reported on: _____

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

_____ Attach a signed certification to complete this report.

...

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

Part 70 Quarterly Report

Source Name: R. R. Donnelley & Sons Company
 Source Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Mailing Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Part 70 Permit No.: T 107-23664-00052
 Facility: ~~Two (2) presses, identified as Press 287, and Press 288~~
 Parameter: VOC Emissions
 Limit: Less than 40 tons per twelve (12) consecutive month period, total, with compliance determined at the end of each month. ~~For each press,~~ VOC emitted shall be based on the following equation:

$$\begin{aligned} \text{VOC emissions (tons)} = & (\text{ink usage in heatset mode (tons)} * \text{VOC content} * 80\% \text{ flash off}) + \\ & (\text{ink usage in nonheatset mode (tons)} * \text{VOC content} * 5\% \text{ flash off}) + \\ & (\text{fountain solution usage (tons)} * \text{VOC content} * 100\% \text{ flash off}) + \\ & (\text{manual cleaner usage (tons)} * \text{VOC content} * 50\% \text{ flash off}) + \\ & (\text{automatic cleaner usage (tons)} * \text{VOC content} * 100\% \text{ flash off}) \end{aligned}$$

QUARTER: _____ YEAR: _____

Month	VOC Emissions (tons)	VOC Emissions (tons)	VOC Emissions (tons)
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

Submitted by: _____
 Title/Position: _____
 Signature: _____
 Date: _____
 Phone: _____

Attach a signed certification to complete this report.

...

Modification 8: Several of the IDEM, OAQ, branches and sections have been renamed. Therefore, the addresses listed in the permit will be updated as follows:

References to the Permit Administration and Development Section and the Permits Branch have been changed to "Permit Administration and Support Section". References to the Asbestos Section, Compliance Data Section, Air Compliance Section, and Compliance Branch have been changed to "Compliance and Enforcement Branch".

**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**

**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**

Modification 9: 326 IAC 2-7 requires that "a responsible official" perform certain actions. 326 IAC 2-7-1(34) allows for multiple people to meet the definition of "responsible official." Therefore, IDEM is revising all instances of "the responsible official" to read "a responsible official". These changes are made throughout the permit without

reproduction herein.

Modification 10: The phrases "no later than" and "not later than" are clearer than "within" in relation to the end of a timeline. Therefore, all timelines have been switched to "no later than" or "not later than". The following changes have been made to the permit:

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

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented ~~within~~ **not later than** ninety (90) days of permit issuance. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated ~~within~~ **no later than** ninety (90) days, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

...

C.16 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5] [326 IAC 2-7-6]

(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ ~~within~~ **no later than** thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.

...

C.18 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [326 IAC 2-2]

...

(b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented ~~within~~ **no later than** ninety (90) days of permit issuance.

...

C.19 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2]

(a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted ~~within~~ **not later than** thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by a "responsible official" as defined by 326 IAC 2-7-1(34).

...

(d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted ~~within~~ **no later than** thirty (30) days of the end of the reporting period. All reports do require the certification by a "responsible official" as defined by 326 IAC 2-7-1(34).

...

(g) The report for project at an existing emissions unit shall be submitted ~~within~~ **no later than** sixty (60) days after the end of the year and contain the following:

...

Modification 11: IDEM has clarified what rule requirements a certification needs to meet. Additionally, IDEM has removed the last sentence dealing with the need for certification from the forms because the Conditions requiring the forms already address this issue. The following changes are made to the permit:

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

...

The submittal by the Permittee does require ~~the~~ a certification **that meets the requirements of 326 IAC 2-7-6(1)** by a "responsible official" as defined by 326 IAC 2-7-1(34).

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

...

- (b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require ~~the~~ a certification **that meets the requirements of 326 IAC 2-7-6(1)** by a "responsible official" as defined by 326 IAC 2-7-1(34).

...

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

...

- (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:

...

The notification which shall be submitted by the Permittee does not require ~~the~~ a certification **that meets the requirements of 326 IAC 2-7-6(1)** by a "responsible official" as defined by 326 IAC 2-7-1(34).

...

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

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

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

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

The Quarterly Deviation and Compliance Monitoring Report does require ~~the~~ a certification **that meets the requirements of 326 IAC 2-7-6(1)** by a "responsible official" as defined by 326 IAC 2-7-1(34).

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

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-

5(6)(C)] The notification by the Permittee does require ~~the~~ a certification **that meets the requirements of 326 IAC 2-7-6(1)** by a "responsible official" as defined by 326 IAC 2-7-1(34).

...

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

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require ~~the~~ a certification **that meets the requirements of 326 IAC 2-7-6(1)** by a "responsible official" as defined by 326 IAC 2-7-1(34).

...

B.18 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12] [40 CFR 72]

...

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

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

~~Any such application shall be certified by a "responsible official" as defined by 326 IAC 2-7-1(34).~~ **Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official", as defined by 326 IAC 2-7-1(34).**

...

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

...

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

...

The notification which shall be submitted is not considered an application form, report or compliance certification. Therefore, the notification by the Permittee does not require ~~the~~ a certification **that meets the requirements of 326 IAC 2-7-6(1)** by a "responsible official" as defined by 326 IAC 2-7-1(34).

...

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

...

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

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

~~The application which shall be submitted by the Permittee does require the certification by a "responsible official" as defined by 326 IAC 2-7-1(34).~~ **Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official", as defined by 326 IAC 2-7-1(34).**

...

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

- ...
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

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

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

...

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

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

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

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require a certification **that meets the requirements of 326 IAC 2-7-6(1)** by a "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require a certification **that meets the requirements of 326 IAC 2-7-6(1)** by a "responsible official" as defined by 326 IAC 2-7-1(34).

...

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

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented not later than ninety (90) days of permit issuance. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated no later than ninety (90) days; the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

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

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date.

The notification which shall be submitted by the Permittee does require ~~the~~ a certification **that meets the requirements of 326 IAC 2-7-6(1)** by a "responsible official" as defined by 326 IAC 2-7-1(34).

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

C.16 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5] [326 IAC 2-7-6]

...

The response action documents submitted pursuant to this condition do require ~~the~~ a certification **that meets the requirements of 326 IAC 2-7-6(1)** by a "responsible official" as defined by 326 IAC 2-7-1(34).

C.17 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]

...

The emission statement does require ~~the~~ a certification **that meets the requirements of 326 IAC 2-7-6(1)** by a "responsible official" as defined by 326 IAC 2-7-1(34).

...

C.19 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2]

(a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted not later than thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include ~~the~~ a certification **that meets the requirements of 326 IAC 2-7-6(1)** by a "responsible official" as defined by 326 IAC 2-7-1(34).

...

(d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within no later than (30) days of the end of the reporting period. All reports do require ~~the~~ a certification **that meets the requirements of 326 IAC 2-7-6(1)** by a "responsible official" as defined by 326 IAC 2-7-1(34).

...

D.3.15 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.3.1, D.3.2, D.3.3 and D.3.4 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, ~~within~~ **no later than** thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require ~~the~~ a certification **that meets the requirements of 326 IAC 2-7-6(1)** by a "responsible official" as defined by 326 IAC 2-7-1(34).

...

COMPLIANCE AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: R. R. Donnelley & Sons Company
 Source Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Mailing Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Part 70 Permit No.: T 107-23664-00052
 Facility: Two (2) heatset web offset lithographic printing presses, identified as Presses 263 and 264, and one (1) nonheatset sheetfed lithographic printing press, identified as Press 252
 Parameter: VOC Emissions
 Limit: Less than 39 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

For Presses 263 and 264:

VOC emissions (tpy) = (ink usage * VOC content * 80% flash-off * 3% emitted after controls) + (fountain solution usage * VOC content * 100% flash-off * 32.1% emitted after controls) + (manual cleaner usage * VOC content * 50% flash-off)

For Press 252:

VOC emissions (tpy) = (ink usage * VOC content * 5% flash-off) + (fountain solution usage * VOC content * 100% flash-off) + (manual cleaner usage * VOC content * 50% flash-off) + (automatic cleaner usage * VOC content * 100% flash-off) + (aqueous coating usage * VOC content * 100% flash-off)

QUARTER: _____ YEAR: _____

Month	VOC Emissions (tons)	VOC Emissions (tons)	VOC Emissions (tons)
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

Submitted by: _____
 Title/Position: _____
 Signature: _____
 Date: _____
 Phone: _____

Attach a signed certification to complete this report.

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

Part 70 Quarterly Report

Source Name: R. R. Donnelley & Sons Company
 Source Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Mailing Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Part 70 Permit No.: T 107-23664-00052
 Facility: One (1) press, identified as Press 240
 Parameter: VOC Emissions
 Limit: Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month. For each press, VOC emitted shall be based on the following equation:

$$\begin{aligned} \text{VOC emissions (tons)} = & \\ & (\text{ink usage in heatset mode (tons)} * \text{VOC content} * 80\% \text{ flash off}) + \\ & (\text{ink usage in nonheatset mode (tons)} * \text{VOC content} * 5\% \text{ flash off}) + \\ & (\text{fountain solution usage (tons)} * \text{VOC content} * 100\% \text{ flash off}) + \\ & (\text{manual cleaner usage (tons)} * \text{VOC content} * 50\% \text{ flash off}) + \\ & (\text{automatic cleaner usage (tons)} * \text{VOC content} * 100\% \text{ flash off}) \end{aligned}$$

QUARTER: _____ YEAR: _____

Month	VOC Emissions (tons)	VOC Emissions (tons)	VOC Emissions (tons)
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

Submitted by: _____
 Title/Position: _____
 Signature: _____
 Date: _____
 Phone: _____

~~Attach a signed certification to complete this report.~~

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

Part 70 Quarterly Report

Source Name: R. R. Donnelley & Sons Company
 Source Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Mailing Address: 1009 Sloan Street, Crawfordsville, Indiana 47933

Part 70 Permit No.: T 107-23664-00052

Facility: One (1) press, identified as Press 281

Parameter: VOC Emissions

Limit: Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month. For each press, VOC emitted shall be based on the following equation:

$$\begin{aligned} \text{VOC emissions (tons)} = & \\ & (\text{ink usage in heatset mode (tons)} * \text{VOC content} * 80\% \text{ flash off}) + \\ & (\text{ink usage in nonheatset mode (tons)} * \text{VOC content} * 5\% \text{ flash off}) + \\ & (\text{fountain solution usage (tons)} * \text{VOC content} * 100\% \text{ flash off}) + \\ & (\text{manual cleaner usage (tons)} * \text{VOC content} * 50\% \text{ flash off}) + \\ & (\text{automatic cleaner usage (tons)} * \text{VOC content} * 100\% \text{ flash off}) \end{aligned}$$

QUARTER: _____ YEAR: _____

Month	VOC Emissions (tons)	VOC Emissions (tons)	VOC Emissions (tons)
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

~~Attach a signed certification to complete this report.~~

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

Part 70 Quarterly Report

Source Name: R. R. Donnelley & Sons Company
Source Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
Mailing Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
Part 70 Permit No.: T 107-23664-00052
Facility: One (1) press, identified as Press 245
Parameter: VOC Emissions

Limit: Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month. For each press, VOC emitted shall be based on the following equation:

$$\begin{aligned} \text{VOC emissions (tons)} = & \\ & (\text{ink usage in heatset mode (tons)} * \text{VOC content} * 80\% \text{ flash off}) + \\ & (\text{ink usage in nonheatset mode (tons)} * \text{VOC content} * 5\% \text{ flash off}) + \\ & (\text{fountain solution usage (tons)} * \text{VOC content} * 100\% \text{ flash off}) + \\ & (\text{manual cleaner usage (tons)} * \text{VOC content} * 50\% \text{ flash off}) + \\ & (\text{automatic cleaner usage (tons)} * \text{VOC content} * 100\% \text{ flash off}) \end{aligned}$$

QUARTER: _____ YEAR: _____

Month	VOC Emissions (tons)	VOC Emissions (tons)	VOC Emissions (tons)
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

Submitted by: _____
 Title/Position: _____
 Signature: _____
 Date: _____
 Phone: _____

~~Attach a signed certification to complete this report.~~

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

Part 70 Quarterly Report

Source Name: R. R. Donnelley & Sons Company
 Source Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Mailing Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Part 70 Permit No.: T 107-23664-00052
 Facility: One (1) press, identified as Press 290
 Parameter: VOC Emissions
 Limit: Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month. For each press, VOC emitted shall be based on the following equation:

$$\begin{aligned} \text{VOC emissions (tons)} = & \\ & (\text{ink usage in heatset mode (tons)} * \text{VOC content} * 80\% \text{ flash off}) + \\ & (\text{ink usage in nonheatset mode (tons)} * \text{VOC content} * 5\% \text{ flash off}) + \\ & (\text{fountain solution usage (tons)} * \text{VOC content} * 100\% \text{ flash off}) + \\ & (\text{manual cleaner usage (tons)} * \text{VOC content} * 50\% \text{ flash off}) + \\ & (\text{automatic cleaner usage (tons)} * \text{VOC content} * 100\% \text{ flash off}) \end{aligned}$$

QUARTER: _____ YEAR: _____

Month	VOC Emissions (tons)	VOC Emissions (tons)	VOC Emissions (tons)
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

Submitted by: _____
 Title/Position: _____
 Signature: _____
 Date: _____
 Phone: _____

~~Attach a signed certification to complete this report.~~

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

Part 70 Quarterly Report

Source Name: R. R. Donnelley & Sons Company
 Source Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Mailing Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Part 70 Permit No.: T 107-23664-00052
 Facility: One (1) press, identified as Press 291
 Parameter: VOC Emissions
 Limit: Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month. For each press, VOC emitted shall be based on the following equation:

$$\begin{aligned} \text{VOC emissions (tons)} = & \\ & (\text{ink usage in heatset mode (tons)} * \text{VOC content} * 80\% \text{ flash off}) + \end{aligned}$$

(ink usage in nonheatset mode (tons) * VOC content * 5% flash off) +
 (fountain solution usage (tons) * VOC content * 100% flash off) +
 (manual cleaner usage (tons) * VOC content * 50% flash off) +
 (automatic cleaner usage (tons) * VOC content * 100% flash off)

QUARTER: _____ YEAR: _____

Month	VOC Emissions (tons)	VOC Emissions (tons)	VOC Emissions (tons)
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

Submitted by: _____
 Title/Position: _____
 Signature: _____
 Date: _____
 Phone: _____

~~Attach a signed certification to complete this report.~~

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

Part 70 Quarterly Report

Source Name: R. R. Donnelley & Sons Company
 Source Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Mailing Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Part 70 Permit No.: T 107-23664-00052
 Facility: One (1) press, identified as Press 293
 Parameter: VOC Emissions
 Limit: Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month. For each press, VOC emitted shall be based on the following equation:

VOC emissions (tons) =
 (ink usage in heatset mode (tons) * VOC content * 80% flash off) +
 (ink usage in nonheatset mode (tons) * VOC content * 5% flash off) +
 (fountain solution usage (tons) * VOC content * 100% flash off) +
 (manual cleaner usage (tons) * VOC content * 50% flash off) +
 (automatic cleaner usage (tons) * VOC content * 100% flash off)

QUARTER: _____ YEAR: _____

Month	VOC Emissions (tons)	VOC Emissions (tons)	VOC Emissions (tons)
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

Submitted by: _____
 Title/Position: _____
 Signature: _____
 Date: _____
 Phone: _____

~~Attach a signed certification to complete this report.~~

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

Part 70 Quarterly Report

Source Name: R. R. Donnelley & Sons Company
 Source Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Mailing Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Part 70 Permit No.: T 107-23664-00052
 Facility: One (1) press, identified as Press 294
 Parameter: VOC Emissions
 Limit: Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month. For each press, VOC emitted shall be based on the following equation:

$$\begin{aligned} \text{VOC emissions (tons) =} & \\ & (\text{ink usage in heatset mode (tons) * VOC content * 80\% flash off}) + \\ & (\text{ink usage in nonheatset mode (tons) * VOC content * 5\% flash off}) + \\ & (\text{fountain solution usage (tons) * VOC content * 100\% flash off}) + \\ & (\text{manual cleaner usage (tons) * VOC content * 50\% flash off}) + \\ & (\text{automatic cleaner usage (tons) * VOC content * 100\% flash off}) \end{aligned}$$

QUARTER: _____ YEAR: _____

Month	VOC Emissions (tons)	VOC Emissions (tons)	VOC Emissions (tons)
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

Submitted by: _____
 Title/Position: _____
 Signature: _____
 Date: _____
 Phone: _____

~~Attach a signed certification to complete this report.~~

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

Part 70 Quarterly Report

Source Name: R. R. Donnelley & Sons Company
 Source Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Mailing Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Part 70 Permit No.: T 107-23664-00052
 Facility: One (1) press, identified as Press 295
 Parameter: VOC Emissions
 Limit: Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month. For each press, VOC emitted shall be based on the following equation:

$$\begin{aligned} \text{VOC emissions (tons)} = & \\ & (\text{ink usage in heatset mode (tons)} * \text{VOC content} * 80\% \text{ flash off}) + \\ & (\text{ink usage in nonheatset mode (tons)} * \text{VOC content} * 5\% \text{ flash off}) + \\ & (\text{fountain solution usage (tons)} * \text{VOC content} * 100\% \text{ flash off}) + \\ & (\text{manual cleaner usage (tons)} * \text{VOC content} * 50\% \text{ flash off}) + \\ & (\text{automatic cleaner usage (tons)} * \text{VOC content} * 100\% \text{ flash off}) \end{aligned}$$

QUARTER: _____ YEAR: _____

	VOC Emissions (tons)	VOC Emissions (tons)	VOC Emissions (tons)

Month	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

Submitted by: _____
 Title/Position: _____
 Signature: _____
 Date: _____
 Phone: _____

~~Attach a signed certification to complete this report.~~

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

Part 70 Quarterly Report

Source Name: R. R. Donnelley & Sons Company
 Source Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Mailing Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Part 70 Permit No.: T 107-23664-00052
 Facility: One (1) press, identified as Press 296
 Parameter: VOC Emissions
 Limit: Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month. For each press, VOC emitted shall be based on the following equation:

$$\begin{aligned} \text{VOC emissions (tons)} = & \\ & (\text{ink usage in heatset mode (tons)} * \text{VOC content} * 80\% \text{ flash off}) + \\ & (\text{ink usage in nonheatset mode (tons)} * \text{VOC content} * 5\% \text{ flash off}) + \\ & (\text{fountain solution usage (tons)} * \text{VOC content} * 100\% \text{ flash off}) + \\ & (\text{manual cleaner usage (tons)} * \text{VOC content} * 50\% \text{ flash off}) + \\ & (\text{automatic cleaner usage (tons)} * \text{VOC content} * 100\% \text{ flash off}) \end{aligned}$$

QUARTER: _____ YEAR: _____

Month	VOC Emissions (tons)	VOC Emissions (tons)	VOC Emissions (tons)
	This Month	Previous 11 Months	12 Month Total

Month 1			
Month 2			
Month 3			

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

Submitted by: _____
 Title/Position: _____
 Signature: _____
 Date: _____
 Phone: _____

~~Attach a signed certification to complete this report.~~

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

Part 70 Quarterly Report

Source Name: R. R. Donnelley & Sons Company
 Source Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Mailing Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Part 70 Permit No.: T 107-23664-00052
 Facility: Two (2) presses, identified as Press 242 and Press 243
 Parameter: Total VOC Emissions
 Limit: Less than 39 tons per twelve (12) consecutive month period with compliance determined at the end of each month. For each press, VOC emitted shall be based on the following equation:

$$\begin{aligned} \text{VOC emissions (tons)} = & \\ & (\text{ink usage in heatset mode (tons)} * \text{VOC content} * 80\% \text{ flash off}) + \\ & (\text{ink usage in nonheatset mode (tons)} * \text{VOC content} * 5\% \text{ flash off}) + \\ & (\text{fountain solution usage (tons)} * \text{VOC content} * 100\% \text{ flash off}) + \\ & (\text{manual cleaner usage (tons)} * \text{VOC content} * 50\% \text{ flash off}) + \\ & (\text{automatic cleaner usage (tons)} * \text{VOC content} * 100\% \text{ flash off}) \end{aligned}$$

QUARTER: _____ YEAR: _____

Month	VOC Emissions (tons)	VOC Emissions (tons)	VOC Emissions (tons)
	This Month	Previous 11 Months	12 Month Total

Month 1			
Month 2			
Month 3			

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

Submitted by: _____
 Title/Position: _____
 Signature: _____
 Date: _____
 Phone: _____

~~Attach a signed certification to complete this report.~~

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

Part 70 Quarterly Report

Source Name: R. R. Donnelley & Sons Company
 Source Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Mailing Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Part 70 Permit No.: T 107-23664-00052
 Facility: One (1) press, identified as 242
 Parameter: VOC Emissions
 Limit: Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month. For each press, VOC emitted shall be based on the following equation:

$$\begin{aligned} \text{VOC emissions (tons)} = & \\ & (\text{ink usage in heatset mode (tons)} * \text{VOC content} * 80\% \text{ flash off}) + \\ & (\text{ink usage in nonheatset mode (tons)} * \text{VOC content} * 5\% \text{ flash off}) + \\ & (\text{fountain solution usage (tons)} * \text{VOC content} * 100\% \text{ flash off}) + \\ & (\text{manual cleaner usage (tons)} * \text{VOC content} * 50\% \text{ flash off}) + \\ & (\text{automatic cleaner usage (tons)} * \text{VOC content} * 100\% \text{ flash off}) \end{aligned}$$

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
		This Month	Previous 11 Months

Month 1			
Month 2			
Month 3			

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

Submitted by: _____
 Title/Position: _____
 Signature: _____
 Date: _____
 Phone: _____

~~Attach a signed certification to complete this report.~~

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

Part 70 Quarterly Report

Source Name: R. R. Donnelley & Sons Company
 Source Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Mailing Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Part 70 Permit No.: T 107-23664-00052
 Facility: One (1) press, identified as 243
 Parameter: VOC Emissions
 Limit: Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month. For each press, VOC emitted shall be based on the following equation:

$$\begin{aligned} \text{VOC emissions (tons)} = & \\ & (\text{ink usage in heatset mode (tons)} * \text{VOC content} * 80\% \text{ flash off}) + \\ & (\text{ink usage in nonheatset mode (tons)} * \text{VOC content} * 5\% \text{ flash off}) + \\ & (\text{fountain solution usage (tons)} * \text{VOC content} * 100\% \text{ flash off}) + \\ & (\text{manual cleaner usage (tons)} * \text{VOC content} * 50\% \text{ flash off}) + \\ & (\text{automatic cleaner usage (tons)} * \text{VOC content} * 100\% \text{ flash off}) \end{aligned}$$

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
		This Month	Previous 11 Months

Month 1			
Month 2			
Month 3			

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

Submitted by: _____
 Title/Position: _____
 Signature: _____
 Date: _____
 Phone: _____

~~Attach a signed certification to complete this report.~~

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

Part 70 Quarterly Report

Source Name: R. R. Donnelley & Sons Company
 Source Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Mailing Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Part 70 Permit No.: T 107-23664-00052
 Facility: Press 287
 Parameter: VOC Emissions
 Limit: Less than 40 tons per twelve (12) consecutive month period, total, with compliance determined at the end of each month. VOC emitted shall be based on the following equation:

$$\begin{aligned} \text{VOC emissions (tons)} = & \\ & (\text{ink usage in heatset mode (tons)} * \text{VOC content} * 80\% \text{ flash off}) + \\ & (\text{ink usage in nonheatset mode (tons)} * \text{VOC content} * 5\% \text{ flash off}) + \\ & (\text{fountain solution usage (tons)} * \text{VOC content} * 100\% \text{ flash off}) + \\ & (\text{manual cleaner usage (tons)} * \text{VOC content} * 50\% \text{ flash off}) + \\ & (\text{automatic cleaner usage (tons)} * \text{VOC content} * 100\% \text{ flash off}) \end{aligned}$$

QUARTER: _____ YEAR: _____

Month	VOC Emissions (tons)	VOC Emissions (tons)	VOC Emissions (tons)
	This Month	Previous 11 Months	12 Month Total
Month 1			

Month 2			
Month 3			

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

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

~~Attach a signed certification to complete this report.~~

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

Part 70 Quarterly Report

Source Name: R. R. Donnelley & Sons Company
 Source Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Mailing Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Part 70 Permit No.: T 107-23664-00052
 Facility: One (1) press, identified as Press 286
 Parameter: VOC Emissions
 Limit: Less than 40 tons per twelve (12) consecutive month period with compliance determined at the end of each month. For each press, VOC emitted shall be based on the following equation:

$$\begin{aligned} \text{VOC emissions (tons)} = & \\ & (\text{ink usage in heatset mode (tons)} * \text{VOC content} * 80\% \text{ flash off}) + \\ & (\text{ink usage in nonheatset mode (tons)} * \text{VOC content} * 5\% \text{ flash off}) + \\ & (\text{fountain solution usage (tons)} * \text{VOC content} * 100\% \text{ flash off}) + \\ & (\text{manual cleaner usage (tons)} * \text{VOC content} * 50\% \text{ flash off}) + \\ & (\text{automatic cleaner usage (tons)} * \text{VOC content} * 100\% \text{ flash off}) \end{aligned}$$

QUARTER: _____ YEAR: _____

Month	VOC Emissions (tons)	VOC Emissions (tons)	VOC Emissions (tons)
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			

Month 3			
----------------	--	--	--

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

Submitted by: _____
 Title/Position: _____
 Signature: _____
 Date: _____
 Phone: _____

~~Attach a signed certification to complete this report.~~

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

Part 70 Quarterly Report

Source Name: R. R. Donnelley & Sons Company
 Source Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Mailing Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Part 70 Permit No.: T 107-23664-00052
 Facility: One (1) press, identified as Press 270
 Parameter: VOC Emissions
 Limit: Less than 40 tons per twelve (12) consecutive month period with compliance determined at the end of each month. For each press, VOC emitted shall be based on the following equation:

$$\begin{aligned} \text{VOC emissions (tons)} = & \\ & (\text{ink usage in heatset mode (tons)} * \text{VOC content} * 80\% \text{ flash off}) + \\ & (\text{ink usage in nonheatset mode (tons)} * \text{VOC content} * 5\% \text{ flash off}) + \\ & (\text{fountain solution usage (tons)} * \text{VOC content} * 100\% \text{ flash off}) + \\ & (\text{manual cleaner usage (tons)} * \text{VOC content} * 50\% \text{ flash off}) + \\ & (\text{automatic cleaner usage (tons)} * \text{VOC content} * 100\% \text{ flash off}) \end{aligned}$$

QUARTER: _____ YEAR: _____

Month	VOC Emissions (tons)	VOC Emissions (tons)	VOC Emissions (tons)
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

Submitted by: _____
Title/Position: _____
Signature: _____
Date: _____
Phone: _____

~~Attach a signed certification to complete this report.~~

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

Part 70 Quarterly Report

Source Name: R. R. Donnelley & Sons Company
Source Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
Mailing Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
Part 70 Permit No.: T 107-23664-00052
Facility: In-line Stainer 192
Parameter: VOC Usage

Limit: Less than twenty-five (25) tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

QUARTER: _____ YEAR: _____

Month	VOC Usage (tons)	VOC Usage (tons)	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

Submitted by: _____
Title/Position: _____
Signature: _____

Date: _____
 Phone: _____

~~Attach a signed certification to complete this report.~~

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

Part 70 Quarterly Report

Source Name: R.R. Donnelley & Sons Company
 Source Address: 1009 Sloan Street, Crawfordsville, IN 47933-2743
 Mailing Address: 1009 Sloan Street, Crawfordsville, IN 47933-2743
 Part 70 Permit No.: T107-5963-00052
 Facility: Press 210, Press 211, Press 212, Press 213, Press 214, Press 215, and Press 251
 Parameter: VOC Emissions
 Limit: Total VOC emissions shall not exceed a combined 39 tons per year, based on the following equation:

For presses 210 through 215, VOC emissions =
 (ink usage in heatset mode * VOC content * 80% flash off * 3% emitted after controls) +
 (ink usage in nonheatset mode * VOC content * 5% flash off) +
 (fountain solution usage in heatset mode * VOC content * 100% flash off *
 32.1% emitted after controls) +
 (fountain solution usage in nonheatset mode * VOC content * 100% flash off) +
 (manual cleaner usage * VOC content * 50% flash off) +
 (automatic cleaner usage in heatset mode * VOC content * 61.2% emitted after controls) +
 (automatic cleaner usage in nonheatset mode * VOC content * 100% flash off)

For press 251, VOC emissions =
 (ink usage * VOC content * 5% flash off) +
 (fountain solution usage * VOC content * 100% flash off) +
 (manual cleaner usage * VOC content * 50% flash off) +
 (automatic cleaner usage * VOC content * 100% flash off)

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

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

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

Source Name: R. R. Donnelley & Sons Company
 Source Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Mailing Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
 Part 70 Permit No.: T 107-23664-00052

Months: _____ **to** _____ **Year:** _____

Page 1 of 2

<p>This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".</p>	
<input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.	
<input type="checkbox"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Page 2 of 2

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

Form Completed By: _____

Title/Position: _____

Date: _____

Phone: _____

~~Attach a signed certification to complete this report.~~

Modification 12: Condition B.7 (Duty to Provide Information) has been revised as follows:

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

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

...

Modification 13: To clarify that Condition B.8 (Certification) only states what a certification must be, IDEM has revised the condition as follows:

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

- (a) ~~Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by a "responsible official" of truth, accuracy, and completeness. This certification shall state that, A certification required by the permit meets the requirements of 326 IAC 2-7-6(1) if:~~
- (1) **it contains a certification by a "responsible official", as defined by 326 IAC 2-7-1(34), and**
 - (2) **the certification is** based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) ~~One (1) certification shall be included, using~~ **The Permittee may use** the attached Certification Form, **or its equivalent**, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) A "responsible official" is defined at 326 IAC 2-7-1(34).

Modification 14: IDEM has added a new paragraph (b) to handle future situations where the Permittee adds units that need preventive maintenance plans developed. IDEM has also clarified other aspects of Condition B.10 (Preventive Maintenance Plan). The permit is changes as follows:

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

- (a) ~~If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs) including the following information on each facility:~~ **A Preventive Maintenance Plan (PMP) 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.
- (b) **If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:**
- (1) **Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;**
 - (2) **A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and**
 - (3) **Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.**

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

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

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

- (bc) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. ~~The PMPs and their submittal do not require the a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).~~
- (ed) 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.

Modification 15: IDEM is revising Condition B.11 (Emergency Provisions) to delete paragraph (h). 326 IAC 2-7-5(3)(C)(ii) allows that deviations reported under an independent requirement do not have to be included in the Quarterly Deviation and Compliance Monitoring Report.

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

- ...
~~(h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.~~

Modification 16: Having a separate condition for the reporting of deviations is unnecessary. Therefore, IDEM has removed Section B - Deviation from Permit Requirements and Conditions and added the requirements of that condition to Section C - General Reporting Requirements. Paragraph (d) of Section C - General Reporting Requirements has been removed because IDEM already states the timeline and certification needs of each report in the condition requiring the report. Subparagraph (g)(4) has been revised to match the underlying rule language.

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

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

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

~~using the attached Quarterly Deviation and Compliance Monitoring Report, or its~~

~~equivalent. A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report.~~

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

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

C.19 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2]

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported **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 of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official", as defined by 326 IAC 2-7-1(34). **A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.**
- (b) ~~The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to~~ **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) ~~**Reserved** Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by a "responsible official" as defined by 326 IAC 2-7-1(34).~~
- (e) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.
- (f) If the Permittee is required to comply with the record keeping provisions of (c) in Section C - General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1(qq)) at an existing emissions unit, and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ:
- (1) The annual emissions, in tons per year, from the project identified in (c)(1) in Section C - General Record Keeping Requirements exceed the baseline actual emissions, as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(i), by a significant amount, as defined in 326 IAC 2-2-1(xx)), for that regulated NSR pollutant, and

- (2) The emissions differ from the preconstruction projection as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(ii).
- (g) The report for project at an existing emissions unit shall be submitted within sixty (60) days after the end of the year and contain the following:
 - (1) The name, address, and telephone number of the major stationary source.
 - (2) The annual emissions calculated in accordance with (c)(2) and (3) in Section C - General Record Keeping Requirements.
 - (3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3) and/or 326 IAC 2-3-2(c)(3).
 - (4) Any other information that the Permittee ~~deems fit~~ **wishes** to include in this report **such as an explanation as to why the emissions differ from the preconstruction projection.**

Reports required in this part shall be submitted to:

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

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

Modification 17: The condition should state which rule establishes the authority to set a deadline for the Permittee to submit additional information. Therefore, Condition B.17 (Permit Renewal) has been revised as follows:

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

- ...
- (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.

Modification 18: No notice is required for approved changes in Condition B.19 (Permit Revision Under Economic Incentives and Other Programs). Therefore, the permit is changed as follows:

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

- (a) No Part 70 permit revision **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.

...

Modification 19: IDEM has added 326 IAC 5-1-1 to the exception clause of Section C - Opacity, since 326 IAC 5-1-1 does list exceptions.

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:

...

Modification 20: IDEM has revised Section C - Incineration to more closely reflect the two (2) underlying rules, as follows:

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

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

Modification 21: IDEM has removed the first paragraph of Condition C.8 (Performance Testing) due to the fact that specific testing conditions elsewhere in the permit will specify the timeline and procedures. The permit is changed as follows:

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

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

A For performance testing required by this permit, a test protocol, except as provided elsewhere in this permit, shall be submitted to:

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official", as defined by 326 IAC 2-7-1(34).

...

Modification 22: IDEM has revised Section C - Compliance Monitoring. The reference to recordkeeping has been removed due to the fact that other conditions already address recordkeeping. The voice of the condition has been change to clearly indicate that it is the Permittee that must follow the requirements of the condition.

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

Unless otherwise specified in this permit, ~~for all monitoring and record keeping requirements not already legally required, the Permittee shall be allowed up to~~ **shall be implemented within ninety (90) days of from the date of permit issuance or initial start-up, whichever is later, to begin such monitoring.** ~~If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its~~ **the Permittee's control, that any monitoring equipment required by this permit cannot be installed and operated within no later than ninety (90) days after permit issuance or the date of initial start-up, whichever is later,** the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

...

Modification 23: IDEM has removed Section C - Monitoring Methods. The conditions that require

the monitoring or testing, if required, state what methods shall be used. The permit has been changed as follows:

C.11 ~~Reserved Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]~~

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

Modification 24: IDEM has revised Section C - Response to Excursions or Exceedances. The introduction sentence has been added to clarify that it is only when an excursion or exceedance is detected that the requirements of this condition need to be followed. The word "excess" was added to the last sentence of paragraph (a) because the Permittee only has to minimize excess emissions. The middle of paragraph (b) has been deleted as it was duplicative of paragraph (a). The phrase "or are returning" was added to subparagraph (b)(2) as this is an acceptable response assuming the operation or emission unit does return to normal or its usual manner of operation. The phrase "within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable" was replaced with "normal or usual manner of operation" because the first phrase is just a limited list of the second phrase. The recordkeeping required by paragraph (e) was changed to require only records of the response because the previously listed items are required to be recorded elsewhere in the permit.

C.15 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]

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

- (a) ~~Upon detecting an excursion or exceedance, the~~ **The** Permittee shall **take reasonable response steps to** restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing **excess** emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction ~~and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions).~~ **Corrective actions** **The response** may include, but ~~are~~ **is** not limited to, the following:
 - (1) initial inspection and evaluation
 - (2) recording that operations returned **or are returning** to normal without operator action (such as through response by a computerized distribution control system); or
 - (3) any necessary follow-up actions to return operation to ~~within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable~~ **normal or usual manner of operation.**
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
 - (1) monitoring results;
 - (2) review of operation and maintenance procedures and records;
 - (3) inspection of the control device, associated capture system, and the process.

- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall ~~maintain the following records~~ **record the reasonable response steps taken.:**
 - (1) ~~monitoring data;~~
 - (2) ~~monitor performance data, if applicable; and~~
 - (3) ~~corrective actions taken.~~

Modification 25: IDEM has revised Section C - Actions Related to Noncompliance Demonstrated by a Stack Test. The requirements to take response steps and minimize excess emissions have been removed because Section C - Response to Excursions or Exceedances already requires response steps related to exceedances and excess emissions minimization. The start of the timelines was switched from "the receipt of the test results" to "the date of the test." There was confusion if the "receipt" was by IDEM, the Permittee, or someone else. Since the start of the timelines has been moved up, the length of the timelines was increased. The new timelines require action within a comparable timeline; and the new timelines still ensure that the Permittee will return to compliance within a reasonable timeframe.

C.16 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5] [326 IAC 2-7-6]

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee ~~shall take appropriate response actions. The Permittee shall submit a description of these~~ **its response actions to IDEM, OAQ, no later than ~~thirty (30) days of receipt of the test results~~ seventy-five (75) days after the date of the test.** ~~The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.~~
- (b) A retest to demonstrate compliance shall be performed ~~within~~ **no later than one hundred ~~twenty (120)~~ eighty (180) days of receipt of the original test results after the date of the test.** Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred ~~twenty (120)~~ **eighty (180) days** is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

Modification 26: Paragraph (b) of Section C - Emission Statement has been removed. It was duplicative of the requirement in Section C - General Reporting Requirements.

C.17 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]

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

Modification 27: The voice of paragraph (b) of Section C - General Record Keeping Requirements has been change to clearly indicate that it is the Permittee that must follow the requirements of the paragraph.

C.18 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [326 IAC 2-2]

- ...
- (b) Unless otherwise specified in this permit, **for** all record keeping requirements not already legally required, **the Permittee shall be allowed up to** ~~shall be implemented within~~ ninety (90) days **from the date** of permit issuance **or the date of initial start-up, whichever is later, to begin such record keeping.**
- ...

Modification 28: IDEM has decided to simplify the referencing in Section C - Compliance with 40 CFR 82 and 326 IAC 22-1. The permit is changed as follows:

C.20 Compliance with 40 CFR 82 and 326 IAC 22-1

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

- (a) ~~Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.~~
- (b) ~~Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.~~
- (c) ~~Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.~~

Modification 29: For clarity, IDEM has changed references to the general conditions: "in accordance with Section B", "in accordance with Section C", or other similar language, to " Section C ... contains the Permittee's obligations with regard to the records required by this condition." The following changes have been made to the permit:

D.1.2 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, ~~in accordance with Section B - Preventive Maintenance Plan, of this permit,~~ is required for these facilities. **Section B - Preventive Maintenance Plan of this permit contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.**

D.2.2 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, ~~in accordance with Section B - Preventive Maintenance Plan, of this permit,~~ is required for this facility and its control device. **Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.**

D.3.6 Preventive Maintenance Plan [326 IAC 1-6-3] [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, ~~in accordance with Section B - Preventive Maintenance Plan, of this permit,~~ is required for these facilities and their control devices. **Section B - Preventive Maintenance Plan of this permit contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.**

D.3.7 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

- ...
- (d) These tests shall be repeated at least once every two and one-half (2.5) years from the date of the most recent valid compliance demonstration. ~~Testing shall be conducted in~~

~~accordance with~~ Section C - Performance Testing **of this permit contains the Permittee's obligation with regard to the performance testing required by this condition.**

D.3.13 Particulate Matter Monitoring

- (a) Daily inspections from the one (1) coating operation, identified as In-line Stainer 192 shall be performed to verify the placement, integrity and particle loading of the filters. To monitor the performance of the dry filters, weekly observations shall be made of the overspray while in operation. ~~If a condition exists which should result in a response step, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances~~ **of this permit contains the Permittee's obligation with regard to the reasonable response steps required by this condition.** Failure to take response steps ~~in accordance with Section C - Response to Excursions or Exceedances~~ shall be considered a deviation from this permit.
- (b) Monthly inspections shall be performed of the coating emissions from the stack and the presence of overspray on the rooftops and the nearby ground. During periods of inclement weather, these inspections shall be performed as weather permits. ~~If a condition exists which should result in a response step, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances~~ **of this permit contains the Permittee's obligation with regard to the reasonable response steps required by this condition.** Failure to take response steps ~~in accordance with Section C - Response to Excursions or Exceedances~~ shall be considered a deviation from this permit.

D.3.14 Record Keeping Requirements

- ...
- (d) ~~All records shall be maintained in accordance with Section C - General Record Keeping Requirements,~~ of this permit **contains the Permittee's obligation with regards to the records required by this condition.**

Modification 30: IDEM has clarified the testing requirements contained in Section D.3.

D.3.7 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

- ...
- (d) These tests shall be repeated at least once every two and one-half (2.5) years from the date of the most recent valid compliance demonstration. **Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures).** Section C - Performance Testing of this permit contains the Permittee's obligation with regard to the performance testing required by this condition.

Modification 31: The word "status" has been added to Section D - Reporting Requirements. The Permittee has the obligation to document the compliance status. The wording has been revised to properly reflect this as follows:

D.3.14 Record Keeping Requirements

- (a) To document **the compliance status** with Conditions D.3.1, D.3.2, D.3.3 and D.3.4, the Permittee shall maintain records in accordance with (1) through (3) below. Records maintained for (1) through (3) shall be taken monthly and shall be complete and sufficient to establish **the compliance status** with the VOC usage limits and/or the VOC emission limits established in Conditions D.3.1, D.3.2, D.3.3 and D.3.4:
- (1) The amount and VOC content of each ink, fountain solution, coating material and solvent used. Records shall include purchase orders, invoices, material safety data sheets (MSDS) or other documentation necessary to verify the type and amount used. Ink usage records shall indicate whether the ink was used in heatset or nonheatset mode. Solvent usage records shall differentiate between those used in coatings and ink and those used as cleanup solvents;

- (2) The total VOC usage for each month at each facility; and
- (3) The weight of VOCs emitted from each facility for each compliance period.
- (b) To document **the** compliance **status** with Condition D.3.12, the Permittee shall maintain a log of daily inspections, weekly observations, and monthly inspections.
- (c) To document the compliance **status** with Condition D.3.10 and D.3.11, the Permittee shall maintain the continuous temperature records for the thermal oxidizers and the temperature used to demonstrate compliance during the most recent compliance stack test and weekly records of the duct pressure or fan amperage.
- (d) Section C - General Record Keeping Requirements of this permit contains the Permittee's obligation with regard to the records required by this condition.

Modification 32: The word "status" has been added to Section D - Reporting Requirements. The Permittee has the obligation to document the compliance status. The wording has been revised to properly reflect this.

D.3.15 Reporting Requirements

A quarterly summary of the information to document **the** compliance **status** with Conditions D.3.1, D.3.2, D.3.3 and D.3.4 shall be submitted ~~to the address listed in Section C - General Reporting Requirements, of this permit, not later than using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported.~~ **Section C - General Reporting of this permit contains the Permittee's obligation with regard to the reporting required by this condition.** The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

Modification 33: The phrase "of this permit" has been added as follows to the paragraph of the Quarterly Deviation and Compliance Monitoring Report to match the underlying rule.

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: R. R. Donnelley & Sons Company
Source Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
Mailing Address: 1009 Sloan Street, Crawfordsville, Indiana 47933
Part 70 Permit No.: T 107-23664-00052

Months: _____ to _____ Year: _____

Page 1 of 2

This report shall be submitted quarterly based on a calendar year. 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".

...

Conclusion and Recommendation

The construction of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Significant Source Modification No. 107-28887-00052 and Significant Permit Modification No. 107-28896-00052. The staff recommends to the Commissioner that this Part 70 Significant Source and Significant Permit Modification be approved.

**Appendix B: Emissions Calculations
VOC From Printing Press Operations**

Company Name: R.R. Donnelley & Sons Company
Address, City IN Zip: 600 State Road 32 West, Crawfordsville, Indiana 47933-2741
Significant Source Modification No.: 107-28887-00052
Significant Permit Modification No.: 107-28896-00052
Reviewer: Stephanie Wilkerson
Date: 1/18/2010

THROUGHPUT			
Press I.D.	MAXIMUM LINE SPEED (FEET/MIN)	MAXIMUM PRINT WIDTH (INCHES)	MMin ² /YEAR (x2 webs)
Press 263	1200	34	514668

	Maximum Coverage (lbs/MMin ²)	Weight % Volatiles*	Flash Off %	Throughput (MMin ² /Year)	Emissions (TONS/YEAR)
Worst-case Ink	1.85	43%	80.00%	514668	165.14
Fountain Solution	0.165	13%	100.00%	514668	5.39
Manual Wash Solution	0.046	100%	50.00%	514668	5.89

THROUGHPUT			
Press I.D.	MAXIMUM LINE SPEED (FEET/MIN)	MAXIMUM PRINT WIDTH (INCHES)	MMin ² /YEAR (x2 webs)
Press 264	1200	34	514668

INK VOCS					
	Maximum Coverage (lbs/MMin ²)	Weight % Volatiles*	Flash Off %	Throughput (MMin ² /Year)	Emissions (TONS/YEAR)
Worst-case Ink	1.85	43%	80.00%	514668	165.14
Fountain Solution	0.165	13%	100.00%	514668	5.39
Manual Wash Solution	0.046	100%	50.00%	514668	5.89

THROUGHPUT			
Press I.D.	MAXIMUM LINE SPEED (SHEETS/HR)	MAXIMUM SHEET SIZE (INCHES ²)	MMin ² /YEAR
Sheet-fed Press 252	13000	1120	127546

INK VOCS					
	Maximum Coverage (lbs/MMin ²)	Weight % Volatiles*	Flash Off %	Throughput (MMin ² /Year)	Emissions (TONS/YEAR)
Worst-case Ink	2	30%	5.00%	127546	1.91
Fountain Solution	0.117	51%	100.00%	127546	3.81
Automatic Wash Solution	0.096	100%	100.00%	127546	6.12
Manual Wash Solution	0.155	100%	50.00%	127546	4.94
Aqueous Coating	4	2%	100.00%	127546	5.43

Total VOC Emissions =	375.05 Ton/yr
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METHODOLOGY

Throughput = Maximum line speed feet per minute * Convert feet to inches * Maximum print width inches * 60 minutes per hour * 8760 hours per year /1,000,000 = MMin² per Year
VOC = Maximum Coverage pounds per MMin² * Weight percentage volatiles (water minus organics) * Flash off * Throughput * Tons per 2000 pounds = Tons per Year
NOTE: HEAT SET OFFSET PRINTING HAS AN ASSUMED INK FLASH OFF OF 80%. SHEET-FED OFFSET PRINTING HAS A 5% FLASH-OFF FACTOR.
(Source -OAQPS Draft Guidance, Control Techniques Guidelines for Offset Lithographic Printing and Letterpress Printing (9/06))

**Appendix B: Emissions Calculations
VOC From Printing Press Operations**

Company Name: R.R. Donnelley & Sons Company
Address, City IN Zip: 600 State Road 32 West, Crawfordsville, Indiana 47933-2741
Significant Source Modification No.: 107-28887-00052
Significant Permit Modification No.: 107-28896-00052
Reviewer: Stephanie Wilkerson
Date: 1/18/2010

Controlled Emissions

	Captured VOC Emissions* (tpy)	Destruction Efficiency (%)	Controlled VOC Emissions (tpy)
Press 263	168.91	97%	5.07
Press 264	168.91	97%	5.07

Press 252 is uncontrolled.

METHODOLOGY

Controlled VOC Emissions (tpy) = Captured VOC Emissions (tpy) * (1 - Destruction Efficiency(%))

*Capture efficiency is 100% for inks, 70% for fountain solution and 0% for manual wash.

Appendix B: Emissions Calculations
VOC Summary: Printing Press Operations

Company Name: R.R. Donnelley & Sons Company
Address, City IN Zip: 600 State Road 32 West, Crawfordsville, Indiana 47933-2741
Significant Source Modification No.: 107-28887-00052
Significant Permit Modification No.: 107-28896-00052
Reviewer: Stephanie Wilkerson
Date: 1/18/2010

Press	Controlled VOC	Uncontrolled VOC	Total VOC
263	5.07	7.51	12.57
264	5.07	7.51	12.57
252	N/A	22.21	22.21

47.36 Unlimited VOC Emissions after controls

Appendix B: Emissions Calculations
HAPs

Company Name: R.R. Donnelley & Sons Company
 Address, City IN Zip: 600 State Road 32 West, Crawfordsville, Indiana 47933-2741
 Significant Source Modification No.: 107-28887-00052
 Significant Permit Modification No.: 107-28896-00052
 Reviewer: Stephanie Wilkerson
 Date: 1/18/2010

Uncontrolled PTE

Material	Density (Lb/Gal)	Gal of Mat. (gal/MMin2)	Maximum (M/Min2/hour)	Wt % Manganese Compounds	Manganese Compounds (tons/year)**	Wt % Ethylene Glycol	Ethylene Glycol (tons/year)**	Wt % Listed Glycol Ethers	Listed Glycol Ethers (tons/year)**	Wt % Xylene	Xylene (tons/year)*	Wt % Cumene	Cumene (tons/year)**
Evolution G7 MT Process Colors (Worst-Case Ink)	8.09	0.100	14.56	1.20%	0.11	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00
Fountain Solution*	8.90	0.019	235.01	0.00%	0.00	5.00%	1.55	20.00%	6.19	0.00%	0.00	0.00%	0.00
Blanket Wash*	6.67	0.007	235.01	0.00%	0.00	0.00%	0.00	0.00%	0.00	4.00%	0.35	3.00%	0.26
Sheetfed Manual Wash	7.10	1.408E-05	14.56	0.00%	0.00	0.00%	0.00	0.00%	0.00	1.20%	0.00	0.00%	0.00
Single HAP PTE (tpy)					0.11	1.55		6.19		0.35		0.26	
Total HAP PTE (tpy)					8.46								

*Multiplied by four (4) to account for two (2) webs each on Presses 263 and 264.

**20 % (by weight) ink VOC retention in the substrate for heatset printing.

METHODOLOGY

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

**Indiana Department of Environmental Management
Office of Air Quality**

**APPENDIX A
BEST AVAILABLE CONTROL TECHNOLOGY (BACT)
ANALYSIS REPORT**

Source Description and Location

Source Name:	R.R. Donnelley & Sons Company
Source Location:	600 State Road 32 West, Crawfordsville, Indiana 47933-2741
County:	Montgomery
SIC Code:	2732
Operation Permit No.:	T107-23664-00052
Operation Permit Issuance Date:	November 7, 2008
Significant Source Modification No.:	107-28887-00052
Significant Permit Modification No.:	107-28896-00052
Permit Reviewer:	Stephanie Wilkerson

Background Information

The Office of Air Quality (OAQ) has reviewed the significant source modification and significant permit modification application from R.R. Donnelley & Sons Company, relating to the operation of a stationary publication rotogravure printing operation. On January 19, 2010, R.R. Donnelley & Sons Company submitted an application to the OAQ requesting to construct and operate two (2) heatset web offset lithographic printing presses, identified as Presses 263 and 264, and one (1) nonheatset sheetfed lithographic printing press, identified as Press 252. R.R. Donnelley & Sons Company was issued Part 70 Operating Permit Renewal T107-23664-00052 on November 7, 2008.

The potential VOC emissions of the two (2) proposed heatset web offset lithographic printing presses are greater than twenty-five (25) tons per year, each, and there are no other rules under 326 IAC 8 that apply. Therefore, the requirements of 326 IAC 8-1-6 (Best Available Control Technology (BACT)) are applicable to this modification.

IDEM, OAQ conducts BACT analyses in accordance with the *"Top-Down" Best Available Control Technology Guidance Document* outlined in the 1990 draft U.S. EPA *New Source Review Workshop Manual*, which outlines the steps for conducting a top-down BACT analysis. Those steps are listed below.

- (a) Identify all potentially available control options;
- (b) Eliminate technically infeasible control options;
- (c) Rank remaining control technologies;
- (d) Evaluate the most effective controls and document the results; and
- (e) Select BACT.

Also in accordance with the *"Top-Down" Best Available Control Technology Guidance Document* outlined in the 1990 draft U.S. EPA *New Source Review Workshop Manual*, BACT analyses take into account the energy, environmental, and economic impacts on the source. Emission reductions may be determined through the application of available control techniques, process design, and/or operational limitations. Such reductions are necessary to demonstrate that the emissions remaining after application of BACT will not cause or contribute to air pollution thereby protecting public health and the environment.

VOC BACT Analysis

Step One: Identify All Control Technologies

The following control technologies were evaluated in regards to controlling VOC emissions from the two (2) proposed heatset web offset lithographic printing presses:

(a) Thermal Oxidation

Thermal oxidation systems operate in three (3) stages: a burner generates hot combustion gases, combustion products mix with the exhaust from the process lines, and the mixture is oxidized. Thermal incinerators operate at peak efficiency when oxidizing concentrated organic exhaust streams just above or below the upper and lower explosive limits. This is because the oxidation rate is directly proportional to the organic concentration, the local heat of reaction during oxidation, and the increased concentration of free radicals which participate in the oxidation reaction. Thermal oxidation destruction efficiency ranges from 95 to 99%.

(b) Catalytic Oxidation

Catalytic oxidation systems operate in three stages: a burner generates hot combustion gases, combustion products mix with the fume (VOC vapors), and the mixture is passed through a non-participating media (catalyst) for a specific period of time. VOC destruction efficiency is dependent upon VOC composition and concentration, operating temperature, oxygen concentration, and catalyst characteristics. Catalytic oxidation is most suited to systems with lower exhaust volumes, when there is little variation in the type and concentration of VOC, and where catalyst poisons or other fouling contaminants are not present. Higher destruction efficiencies of 98 - 99% are achievable, but require larger catalyst volumes and/or higher temperatures, and are usually designed on a site specific basis (EPA, 1991).

Step Two: Evaluate Technical Feasibility

To be considered technically feasible, a control technology must either be successfully demonstrated on a unit or, if not demonstrated, then be "available and applicable". A technology is considered "available" if it can be obtained by the applicant through commercial channels. An available technology is considered "applicable" if it can reasonably be installed and operated on the unit in question.

The feasibility of each of the potentially applicable control options identified is reviewed below.

(a) Thermal Oxidation

Thermal oxidation is a technically feasible option. The source has thermal oxidizers in place for current operations, and one (1) of the proposed presses has a thermal oxidizer integrated into the drying system.

(b) Catalytic Oxidation

Catalytic oxidation is not a technically feasible option. The source continually changes its coating formulations, with each new formulation likely having catalyst fouling characteristics.

The following table summarizes other BACT determinations at similar sources or on similar processes:

Company/Location	Year Issued	Process Description	BACT Emission Limits/Requirements	Reference
R.R. Donnelley & Sons Company - Crawfordsville, IN	2007	Printing presses	Thermal oxidizer with 97% destruction efficiency, fountain solution with no more than 5% VOC, and cleaning solvent with less than 10 mmHg vapor pressure or 2.5 lb VOC/gal	Indiana Title V Permit No. 107-23347-00052
R.R. Donnelley & Sons Company - Warsaw, IN	2005	Printing presses	Thermal oxidizer with 97% destruction efficiency, fountain solution with no more than 5% VOC, and cleaning solvent with less than 10 mmHg vapor pressure or 2.5 lb VOC/gal	Indiana Title V Permit Modification No: 085-20472-00009
R.R. Donnelley & Sons Company - Lancaster, PA	2006	Printing presses	Thermal oxidizer with 97% destruction efficiency	RBLC ID: PA-0261
Williams Printing Company - East Point, GA	2005	Printing presses	Fountain solution: 5% VOC, blanket wash vapor pressure limit of 10mmHg or 2.5 lb VOC/gal; thermal oxidizer with 97% destruction efficiency	RBLC ID: GA-0111
Quad-Graphics - Sussex, WI	2005	Printing presses	Thermal oxidizer with 97.5% destruction efficiency, restrict vapor pressure of blanket washes to a maximum of 10 mmHg, and use of fountain solutions with no restricted alcohols	RBLC ID: WI-0222

Step Three: Rank Feasible Technologies

	Thermal Oxidation (Top BACT)
Destruction Efficiency	97%
Expected Emission Rates*	352.84 tons/year
Expected Emissions Reduction*	327.69 tons/year

* - Emission rates and reduction based on source's maximum uncontrolled emission rate for the two (2) proposed printing presses.

Step Four: Evaluate Top Control Alternatives

Thermal oxidation is the top control alternative to satisfy the BACT requirements of 326 IAC 8-1-6 (BACT), based on control efficiency and technical feasibility.

The source currently operates a thermal oxidizer system to control VOC emissions from other presses onsite, and proposes that the VOC emissions from two (2) proposed heatset web offset lithographic printing presses be controlled by this existing control system.

As the source has proposed to accept top BACT, the economic, environmental, and energy impacts to the source have not been evaluated.

Step Five: Select BACT

IDEM has determined that the best available control technology (BACT) to control VOC emissions from the two (2) proposed heatset web offset lithographic printing presses, identified as Presses 263 and 264, shall be as follows:

- (a) When operating in heatset mode, the VOC emissions from Presses 263 and 264 shall be controlled by the thermal oxidizer system, consisting of one (1) to three (3) operating regenerative thermal oxidizers identified as RTO-1, RTO-2, and RTO-3.
- (b) Presses 263 and 264 shall not be operated in heatset mode until such time that the combustion temperature(s) in the thermal oxidizer system has attained the minimum temperature(s) determined in testing requirements to destroy at least 97% of captured VOC.
- (c) The VOC content of the fountain solution shall not exceed 3% VOC as applied;
- (d) The blanket and roller washes shall have a vapor pressure no greater than 10 mmHg at 20°C or the VOC content shall be limited to 2.5 lb/gal as applied;
- (e) The manual cleaning solvents shall have a vapor pressure no greater than 25 mmHg at 20°C or the VOC content shall be limited to 2.5 lb/gal as applied; and
- (f) The capture and retention efficiencies used for reporting compliance shall be as follows and are based on U.S. EPA's "Alternative Control Techniques Document: Offset Lithographic Printing" (EPA 453/R-94-054, June 1994):
 - (1) 100% capture, by weight, of the VOC in press-ready inks;
 - (2) 70% capture, by weight, of the VOC in press-ready fountain solutions;
 - (3) 20% retention, by weight, of VOC in inks in the paper substrate; and
 - (4) 50% retention, by weight, of manual cleaning solvents in the cleaning wipers. Cleaning wipers shall always be placed in closed containers after use.

Compliance with the above limits and conditions will satisfy the requirements of 326 IAC 8-1-6 (BACT).



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

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

TO: Kimm Wheeler
R.R. Donnelley & Sons Company
600 SR 32 W
Crawfordsville, IN 47933

DATE: April 20, 2010

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

SUBJECT: Final Decision
Significant Source Modification
107-28887-00052

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to:
Stephen Seamans (VP - MFG.)
OAQ Permits Branch Interested Parties List

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

Final Applicant Cover letter.dot 11/30/07



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April 20, 2010

TO: Crawfordsville County Public Library

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

Subject: **Important Information for Display Regarding a Final Determination**

Applicant Name: R.R. Donnelley & Sons Company
Permit Number: 107-28887-00052

You previously received information to make available to the public during the public comment period of a draft permit. Enclosed is a copy of the final decision and supporting materials for the same project. Please place the enclosed information along with the information you previously received. To ensure that your patrons have ample opportunity to review the enclosed permit, **we ask that you retain this document for at least 60 days.**

The applicant is responsible for placing a copy of the application in your library. If the permit application is not on file, or 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.

Enclosures
Final Library.dot 11/30/07

Mail Code 61-53

IDEM Staff	MIDENNEY 4/20/2010 R.R. Donnelley & Sons Company 107-28887-00052 (final)		Type of Mail: CERTIFICATE OF MAILING ONLY	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204		

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee	Remarks
1		Kimm Wheeler R.R. Donnelley & Sons Company 600 SR 32 W Crawfordsville IN 47933 (Source CAATS) via confirmed delivery										
2		Stephen G Seamans VP - Mfg R.R. Donnelley & Sons Company 1009 Sloan St Crawfordsville IN 47933 (RO CAATS)										
3		Crawfordsville City Council and Mayors Office 300 E. Pike St Crawfordsville IN 47933 (Local Official)										
4		Montgomery County Health Department 110 W. South Blvd Suite 100 Crawfordsville IN 47933-3351 (Health Department)										
5		Mr. Charles L. Berger Berger & Berger, Attorneys at Law 313 Main Street Evansville IN 47700 (Affected Party)										
6		Mr. Robert Ford RR 1, Box 233 New Ross IN 47968 (Affected Party)										
7		Ms. Magje Read P.O. Box 248 Battle Ground IN 47920 (Affected Party)										
8		Montgomery County Commissioner 110 West South Boulevard Crawfordsville IN 47933 (Local Official)										
9		Crawfordsville County Public Library 222 South Washington Street Crawfordsville IN 47933 (Library)										
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