



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live.

Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204-2251
(317) 232-8603
(800) 451-6027
www.in.gov/idem

April 3, 2006

Ms. Jessica Ortiz
R.R. Donnelley & Sons Company
1009 Sloan Street
Crawfordsville, IN 47933-2741

Re: **107-22646-00052**
Minor Source Modification to:
Part 70 Operating Permit No.: T 107-5963-00052

Dear Ms. Ortiz:

R.R. Donnelley & Sons Company was issued Part 70 Operating Permit T 107-5963-00052 on June 21, 2002 for a book printing and binding source located at 1009 Sloan Street, Crawfordsville, Indiana. An application to modify the source was received on February 9, 2006. Pursuant to 326 IAC 2-7-10.5 the following emission unit is approved for construction at the source:

One (1) nonheatset, sheet-fed, offset lithographic printing press, identified as Press 250, constructed in 2006, exhausting to stack SP-5U(s), capacity: 13,000 sheets (14.56 million square inches) per hour.

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.

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

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter contact CarrieAnn Paukowits, c/o OAQ, 100 North Senate Avenue, Indianapolis, Indiana 46204-2251, at 631-691-3395, ext. 18 or in Indiana at 1-800-451-6027 (ext 631-691-3395).

Sincerely,
Original signed by

Nisha Sizemore, Chief
Permits Branch
Office of Air Quality

CAP/MES

Attachments

cc: File - Montgomery County
Montgomery County Health Department
Air Compliance Section Inspector - Jim Thorpe
Compliance Branch
Administrative and Development Section
Technical Support and Modeling - Michele Boner
R.R. Donnelley & Sons Company - Gary Calleo, Vice President of Manufacturing



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PART 70 OPERATING PERMIT 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.

Operation Permit No.: T107-5963-00052	
Issued by: Original Signed by Janet McCabe Janet G. McCabe, Assistant Commissioner Office of Air Quality	Issuance Date: June 21, 2002 Expiration Date: June 21, 2007
Minor Source Modification No.: 107-22646-00052	Sections/Conditions Affected: A.2, Facility Description Box in Section D.3, and D.3.6 (all of Section D.3 is shown)
Original signed by: Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: April 3, 2006 Expiration Date: June 21, 2007

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

This book printing and binding operation source consists of the following emission units and pollution control devices:

North Plant:

- (1) Four (4) natural gas or propane fired boilers, with a maximum rating of 20.9 MMBtu (million British thermal units) per hour each:
 - (a) Boiler #1(N) with emissions exhausting through stack SB-4A(N).
 - (b) Boiler #2(N) with emissions exhausting through stack SB-4B(N).
 - (c) Boiler #3(N) with emissions exhausting through stack SB-4C(N).
 - (d) Boiler #4(N) with emissions exhausting through stack SB-4D(N).
- (2) One (1) natural gas or propane fired boiler, with a maximum rating of 2.56 MMBtu (million British thermal units) per hour: Boiler #5(N) with emissions exhausting through stack SB-4E(N).
- (3) Four (4) Paper Trim Cyclones:
 - (a) Paper Trim Cyclone #1(N) emissions exhausting through stack SBP-5H(N).
 - (b) Paper Trim Cyclone #2(N) emissions exhausting through stack SBP-5I(N).
 - (c) Paper Trim Cyclone #3(N) emissions exhausting through stack SBP-5J(N).
 - (d) Paper Trim Cyclone #4(N) emissions exhausting through stack SBP-5K(N).
- (4) Three (3) Paper Dust Collectors:
 - (a) Dust Collector #1(N) consists of a cyclone followed by a baghouse for particulate control and is exhausted through SD-6A(N).
 - (b) Dust Collector #2(N) consists of a baghouse for particulate control and is exhausted through SD-6B(N).
 - (c) Dust Collector #3(N) consists of a cyclone and followed by two (2) baghouses for particulate control and is exhausted through SD-6C(N).
- (5) Two (2) heatset web offset lithographic printing presses, controlled by one (1) 7.6 MMBtu per hour natural gas fired thermal oxidizer (ANorth Oxidizer®) exhausting to one (1) stack identified as SP-5Y(N), including:
 - (a) One (1) Mitsubishi heatset web offset lithographic printing press with two (2) units and two (2) webs identified as Press 268 with a maximum line speed of 1600 feet per minute and a maximum printing width of 64 inches, with associated in-line equipment; and
 - (b) One (1) Toshiba heatset web offset lithographic printing Press with four (4) units and two (2) webs identified as Press 269 with a maximum line speed of 1600 feet per minute and a maximum printing width of 50 inches, with associated in-line equipment.

- (6) One (1) Hantscho heatset web offset lithographic printing Press with two (2) units and two (2) webs identified as Press 240 with a maximum line speed of 1000 feet per minute and a maximum printing width of 33 inches, with associated in-line equipment, exhausting to one (1) stack SP-5R(N).
- (7) One (1) KBA Compacta heatset web offset lithographic printing Press with two (2) units and two (2) webs identified as Press 241 with a maximum line speed of 1100 feet per minute and a maximum printing width of 26 inches, with associated in-line equipment, exhausting to one (1) stack SP-5S(N).
- (8) One (1) Hantscho heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 245 with a maximum line speed of 1000 feet per minute and a maximum printing width of 33 inches, with associated in-line equipment, exhausting to one (1) stack SP-5Q(N).
- (9) One (1) Timson heatset web offset lithographic printing press with one (1) unit and one (1) web identified as Press 242 with a maximum line speed of 1200 feet per minute and a maximum printing width of 47 inches, with associated in-line equipment, exhausting to one (1) stack SP-5Z(N).
- (10) One (1) Timson heatset web offset lithographic printing press with one (1) unit and one (1) web identified as Press 243 with a maximum line speed of 1200 feet per minute and a maximum printing width of 47 inches, with associated in-line equipment, exhausting to one (1) stack SP-5AA(N).
- (11) One (1) Harris heatset web offset lithographic printing press with two (2) units and two (2) webs identified as Press 285 with a maximum line speed of 825 feet per minute and a maximum printing width of 26 inches, with associated in-line equipment, exhausting to one (1) stack SP-5K(N).
- (12) One (1) Harris heatset web offset lithographic printing press with two (2) units and two (2) webs identified as Press 286 with a maximum line speed of 825 feet per minute and a maximum printing width of 31 inches, with associated in-line equipment, exhausting to one (1) stack SP-5L(N).
- (13) One (1) Harris heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 287 with a maximum line speed of 825 feet per minute and a maximum printing width of 31 inches, with associated in-line equipment, exhausting to one (1) stack SP-5M(N).
- (14) One (1) Harris heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 288 with a maximum line speed of 825 feet per minute and a maximum printing width of 31 inches, with associated in-line equipment, exhausting to one (1) stack SP-5N(N).
- (15) One (1) Harris heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 289 with a maximum line speed of 825 feet per minute and a maximum printing width of 31 inches, with associated in-line equipment, exhausting to one (1) stack SP-5O(N).
- (16) Four (4) UV sheetfed offset lithographic presses:
 - (a) One (1) Heidelberg UV sheetfed offset lithographic press identified as Press 232 with a maximum line speed of 317 feet per minute and a maximum printing width of 25.5 inches including five (5) units and coater, exhausting to one (1) stack SP-5U(N) used as cooling air for UV lamps.

- (b) One (1) Heidelberg UV sheetfed offset lithographic press identified as Press 233 with a maximum line speed of 317 feet per minute and a maximum printing width of 25.5 inches including five (5) units and coater, exhausting to one (1) stack SP-5U(N) used as cooling air for UV lamps.
 - (c) One (1) Heidelberg UV sheetfed offset lithographic press identified as Press 238 with a maximum line speed of 434 feet per minute and a maximum printing width of 40 inches including six (6) units and coater, exhausting to one (1) stack SP-5V(N) used as cooling air for UV lamps.
 - (d) One (1) Heidelberg UV sheetfed offset lithographic press identified as Press 239 with a maximum line speed of 473 feet per minute and a maximum printing width of 40 inches including two (2) units and coater, exhausting to one (1) stack SP-5W(N) used as cooling air for UV lamps.
- (17) One (1) conventional sheetfed offset lithographic press identified as Press 254 with a maximum line speed of 299 feet per minute and a maximum printing width of 60 inches.

South Plant:

- (1) Three (3) natural gas or propane fired boilers, with a maximum rating of 25.1 MMBtu (million British thermal units) per hour each:
 - (a) Boiler #1(S) with emissions exhausting through stack SB-4A(S).
 - (b) Boiler #2(S) with emissions exhausting through stack SB-4B(S).
 - (c) Boiler #3(S) with emissions exhausting through stack SB-4C(S).
- (2) Four (4) Paper Trim Cyclones:
 - (a) Paper Trim Cyclone #1(S) emissions exhausting through stack SBP-5E(S).
 - (b) Paper Trim Cyclone #2(S) emissions exhausting through stack SBP-5E(S).
 - (c) Paper Trim Cyclone #3(S) emissions exhausting through stack SBP-5E(S).
 - (d) Paper Trim Cyclone #4(S) emissions exhausting through stack SBP-5E(S).
- (3) Two (2) Paper Dust Collectors:
 - (a) Dust Collector #1(S) consists of two (2) cyclones each followed by a baghouse (two total) for particulate control and are exhausted through SD-6A(S) and new exhaust point SD-6C(S).
 - (b) Dust Collector #2(S) consists of a baghouse for particulate control and is exhausted through SD-6B(S).
- (4) One (1) Mitsubishi heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 262 with a maximum line speed of 1708 feet per minute and a maximum printing width of 61 inches, with associated in-line equipment, and with VOC emissions controlled by one (1) natural gas-fired regenerative thermal oxidizer, identified as RTO-1, rated at 1.7 million British thermal units per hour, exhausting to Stack SP-5T(S).

- (5) One (1) Hantscho heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 270 with a maximum line speed of 807 feet per minute and a maximum printing width of 33 inches, with associated in-line equipment, exhausting to SP-5F(S).
- (6) One (1) Cottrell heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 272 with a maximum line speed of 1000 feet per minute and a maximum printing width of 64 inches, with associated in-line equipment, exhausting to one (1) stack SP-5D(S).
- (7) One (1) Mitsubishi heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 273 with a maximum line speed of 1615 feet per minute and a maximum printing width of 64 inches, with associated in-line equipment, and with VOC emissions controlled by one (1) natural gas-fired regenerative thermal oxidizer, identified as RTO-1, rated at 1.7 million British thermal units per hour, exhausting to Stack SP-5T(S).
- (8) One (1) Cottrell heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 274 with a maximum line speed of 1000 feet per minute and a maximum printing width of 64 inches, with associated in-line equipment, exhausting to one (1) stack SP-5C(S).
- (9) One (1) Cottrell heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 276 with a maximum line speed of 1200 feet per minute and a maximum printing width of 64 inches, with associated in-line equipment, exhausting to one (1) stack SP-5E(S).
- (10) One (1) Toshiba heatset web offset lithographic printing press with four (4) units and one (1) web identified as Press 260 with a maximum line speed of 1615 feet per minute and a maximum printing width of 36 inches, with associated in-line equipment, and with VOC emissions controlled by one (1) natural gas-fired regenerative thermal oxidizer, identified as RTO-1, rated at 1.7 million British thermal units per hour, exhausting to Stack SP-5T(S).
- (11) One (1) Toshiba heatset web offset lithographic printing press with four (4) units and one (1) web identified as Press 261 with a maximum line speed of 1500 feet per minute and a maximum printing width of 36 inches, with associated in-line equipment, and with VOC emissions controlled by one (1) natural gas-fired regenerative thermal oxidizer, identified as RTO-1, rated at 1.7 million British thermal units per hour, exhausting to Stack SP-5T(S).
- (12) One (1) Hantscho heatset web offset lithographic printing press with one (1) unit and one (1) web identified as Press 290 with a maximum line speed of 800 feet per minute and a maximum printing width of 26 inches, with associated in-line equipment, exhausting to one (1) stack SP-5G(S).
- (13) One (1) Hantscho heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 291 with a maximum line speed of 800 feet per minute and a maximum printing width of 26 inches, with associated in-line equipment, exhausting to one (1) stack SP-5H(S).
- (14) One (1) Hantscho heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 293 with a maximum line speed of 1000 feet per minute and a maximum printing width of 33 inches, with associated in-line equipment, exhausting to one (1) stack SP-5K(S).

- (15) One (1) Hantscho heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 294 with a maximum line speed of 1076 feet per minute and a maximum printing width of 33 inches, with associated in-line equipment, exhausting to one (1) stack SP-5M(S).
- (16) One (1) Hantscho heatset web offset lithographic printing press with two (2) units and two (2) webs identified as Press 295 with a maximum line speed of 1000 feet per minute and a maximum printing width of 33 inches, with associated in-line equipment, exhausting to one (1) stack SP-5P(S).
- (17) One (1) Harris heatset web offset lithographic printing press with two (2) units and two (2) webs identified as Press 296 with a maximum line speed of 860 feet per minute and a maximum printing width of 31 inches, with associated in-line equipment, exhausting to one (1) stack SP-5Q(S).
- (18) One (1) Heidelberg sheetfed offset lithographic press identified as Press 258 with a maximum line speed of 505 feet per minute and a maximum printing width of 40.5 inches including six (6) units and coater, exhausting to one (1) stack SP-5R(S) used as cooling air for electric heaters.
- (19) One (1) In-line Stainer 192 used for edge staining paper using low pressure-high volume spray coating and using dry filters for overspray control and exhausting through stack BS-4X(N).
- (20) One (1) nonheatset, sheet-fed, offset lithographic printing press, identified as Press 250, constructed in 2006, exhausting to stack SP-5U(s), capacity: 13,000 sheets (14.56 million square inches) per hour.

SECTION D.3

FACILITY OPERATION CONDITION

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

North:

- (5) Two (2) heatset web offset lithographic printing presses, controlled by one (1) 7.6 MMBtu per hour natural gas fired thermal oxidizer (aNorth Oxidizer®) exhausting to one (1) stack identified as SP-5Y(N), including:
 - (a) One (1) Mitsubishi heatset web offset lithographic printing press with two (2) units and two (2) webs identified as Press 268 with a maximum line speed of 1600 feet per minute and a maximum printing width of 64 inches, with associated in-line equipment; and
 - (b) One (1) Toshiba heatset web offset lithographic printing press with two (2) units and two (2) webs identified as Press 269 with a maximum line speed of 1600 feet per minute and a maximum printing width of 50 inches, with associated In-line equipment.
- (6) One (1) Hantscho heatset web offset lithographic printing press with two (2) units and two (2) webs identified as Press 240 with a maximum line speed of 1000 feet per minute and a maximum printing width of 33 inches, with associated in-line equipment, exhausting to one (1) stack SP-5R(N).
- (7) One (1) KBA Compacta heatset web offset lithographic printing press with two (2) units and two (2) webs identified as Press 281 with a maximum line speed of 1100 feet per minute and a maximum printing width of 26 inches, with associated in-line equipment, exhausting to one (1) stack SP-5S(N).
- (8) One (1) Hantscho heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 245 with a maximum line speed of 1000 feet per minute and a maximum printing width of 33 inches, with associated in-line equipment, exhausting to one (1) stack SP-5Q(N).
- (9) One (1) Timson heatset web offset lithographic printing press with one (1) unit and one (1) web identified as Press 242 with a maximum line speed of 1200 feet per minute and a maximum printing width of 47 inches, with associated in-line equipment, exhausting to one (1) stack SP-5Z(N).
- (10) One (1) Timson heatset web offset lithographic printing press with one (1) unit and one (1) web identified as Press 243 with a maximum line speed of 1200 feet per minute and a maximum printing width of 47 inches, with associated in-line equipment, exhausting to one (1) stack SP-5AA(N).
- (11) One (1) Harris heatset web offset lithographic printing press with two (2) units and two (2) webs identified as Press 285 with a maximum line speed of 825 feet per minute and a maximum printing width of 26 inches, with associated in-line equipment, exhausting to one (1) stack SP-5K(N).
- (12) One (1) Harris heatset web offset lithographic printing press with two (2) units and two (2) webs identified as Press 286 with a maximum line speed of 825 feet per minute and a maximum printing width of 31 inches, with associated in-line equipment, exhausting to one (1) stack SP-5L(N).
- (13) One (1) Harris heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 287 with a maximum line speed of 825 feet per minute and a maximum printing width of 31 inches, with associated in-line equipment, exhausting to one (1) stack SP-5M(N).
- (14) One (1) Harris heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 288 with a maximum line speed of 825 feet per minute and a maximum printing width of 31 inches, with associated in-line equipment, exhausting to one (1) stack SP-5N(N).
- (15) One (1) Harris heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 289 with a maximum line speed of 825 feet per minute and a maximum printing width of 31 inches, with associated in-line equipment, exhausting to one (1) stack SP-5O(N).

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

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

- (16) Four (4) UV sheetfed offset lithographic presses:
- (a) One (1) Heidelberg UV sheetfed offset lithographic press identified as Press 232 with a maximum line speed of 317 feet per minute and a maximum printing width of 25.5 inches including five (5) units and coater, exhausting to one (1) stack SP-5U(N) used as cooling air for UV lamps.
 - (b) One (1) Heidelberg UV sheetfed offset lithographic press identified as Press 233 with a maximum line speed of 317 feet per minute and a maximum printing width of 25.5 inches including five (5) units and coater, exhausting to one (1) stack SP-5U(N) used as cooling air for UV lamps.
 - (c) One (1) Heidelberg UV sheetfed offset lithographic press identified as Press 238 with a maximum line speed of 434 feet per minute and a maximum printing width of 40 inches including six (6) units and coater, exhausting to one (1) stack SP-5V(N) used as cooling air for UV lamps.
 - (d) One (1) Heidelberg UV sheetfed offset lithographic press identified as Press 239 with a maximum line speed of 473 feet per minute and a maximum printing width of 40 inches including two (2) units and coater, exhausting to one (1) stack SP-5W(N) used as cooling air for UV lamps.
- (18) One (1) conventional sheetfed offset lithographic press identified as Press 254 with a maximum line speed of 299 feet per minute and a maximum printing width of 60 inches.

South:

- (4) One (1) Mitsubishi heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 262 with a maximum line speed of 1708 feet per minute and a maximum printing width of 61 inches, with associated in-line equipment and with VOC emissions controlled by one (1) natural gas-fired regenerative thermal oxidizer, identified as RTO-1, rated at 1.7 million British thermal units per hour, exhausting to Stack SP-5T(S).
- (5) One (1) Hantscho heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 270 with a maximum line speed of 807 feet per minute and a maximum printing width of 33 inches, with associated in-line equipment, exhausting to SP-5F(S).
- (6) One (1) Cottrell heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 272 with a maximum line speed of 1000 feet per minute and a maximum printing width of 64 inches, with associated in-line equipment, exhausting to one (1) stack SP-5D(S).
- (7) One (1) Mitsubishi heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 273 with a maximum line speed of 1615 feet per minute and a maximum printing width of 64 inches, with associated in-line equipment, and with VOC emissions controlled by one (1) natural gas-fired regenerative thermal oxidizer, identified as RTO-1, rated at 1.7 million British thermal units per hour, exhausting to Stack SP-5T(S).
- (8) One (1) Cottrell heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 274 with a maximum line speed of 1000 feet per minute and a maximum printing width of 64 inches, with associated in-line equipment, exhausting to one (1) stack SP-5C(S).
- (9) One (1) Cottrell heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 276 with a maximum line speed of 1200 feet per minute and a maximum printing width of 64 inches, with associated in-line equipment, exhausting to one (1) stack SP-5E(S).
- (10) One (1) Toshiba heatset web offset lithographic printing press with four (4) units and one (1) web identified as Press 260 with a maximum line speed of 1615 feet per minute and a maximum printing width of 36 inches, with associated in-line equipment, and with VOC emissions controlled by one (1) natural gas-fired regenerative thermal oxidizer, identified as RTO-1, rated at 1.7 million British thermal units per hour, exhausting to Stack SP-5T(S).

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

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

- (11) One (1) Toshiba heatset web offset lithographic printing press with four (4) units and one (1) web identified as Press 261 with a maximum line speed of 1500 feet per minute and a maximum printing width of 36 inches, with associated in-line equipment, and with VOC emissions controlled by one (1) natural gas-fired regenerative thermal oxidizer, identified as RTO-1, rated at 1.7 million British thermal units per hour, exhausting to Stack SP-5T(S).
- (12) One (1) Hantscho heatset web offset lithographic printing press with one (1) unit and one (1) web
- (14) One (1) Hantscho heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 293 with a maximum line speed of 1000 feet per minute and a maximum printing width of 33 inches, with associated in-line equipment, exhausting to one (1) stack SP-5K(S).
- (15) One (1) Hantscho heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 294 with a maximum line speed of 1076 feet per minute and a maximum printing width of 33 inches, with associated in-line equipment, exhausting to one (1) stack SP-5M(S).
- (16) One (1) Hantscho heatset web offset lithographic printing press with two (2) units and two (2) webs identified as Press 295 with a maximum line speed of 1000 feet per minute and a maximum printing width of 33 inches, with associated in-line equipment, exhausting to one (1) stack SP-5P(S).
- (17) One (1) Harris heatset web offset lithographic printing press with two (2) units and two (2) webs identified as Press 296 with a maximum line speed of 860 feet per minute and a maximum printing width of 31 inches, with associated in-line equipment, exhausting to one (1) stack SP-5Q(S).
- (18) One (1) Heidelberg sheetfed offset lithographic press identified as Press 258 with a maximum line speed of 505 feet per minute and a maximum printing width of 40.5 inches including six (6) units and coater, exhausting to one (1) stack SP-5R(S) used as cooling air for electric heaters.
- (19) One (1) In-line Stainer 192 used for edge staining paper using low pressure-high volume spray coating and using dry filters for overspray control and exhausting through stack BS-4X(S).
- (20) One (1) nonheatset, sheet-fed, offset lithographic printing press, identified as Press 250, constructed in 2006, exhausting to stack SP-5U(s), capacity: 13,000 sheets (14.56 million square inches) per hour.

(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.(d)(5)(A)]

- (a) 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. Therefore, the best available control technology (BACT) requirement in 326 IAC 8-1-6 (New Facilities: General Reduction Requirements) does not apply. VOC emitted will be based on the following equation:

VOC emissions (tpy)= (ink usage X volatile content X 80% flash off)+ (fountain solution usage X volatile content X 100% flash off) + (cleaner usage X volatile content X 50% flash off)

The following presses shall be limited:

Press 240, Press 241, Press 245, Press 289, Press 238, Press 239, Press 260, Press 261, Press 273, Press 290, Press 291, Press 293, Press 294, Press 295, and Press 296,

The requirements from Registered Construction and Operation Status letter issued June 19, 1988 (Press 240), and Registered Construction and Operation Status letter issued October 23, 1991 (Press 241), state that ΔAny change or modification which may

increase the volatile organic compound potential emissions to 25 tons per year or more from the equipment covered in this registration must be approved by OAQ before such change may occur. The previous operating permits did not anticipate that the potential emissions would be greater than 25 tons per year and therefore did not address the requirements of 326 IAC 8-1-6. The source limited the running time in order to keep VOC emissions below 25 tons per year. Descriptions in Title V operating permits are for descriptive information and do not constitute enforceable conditions.

The requirements from Registered Construction and Operation Status letter issued on November 8, 1989 and Registered Construction and Operation Status letter issued on February 2, 1987 (Press 260 and Press 261) to limit VOC emissions by limiting running time to 5000 hours per year; and PC (54) 1853 issued October 20, 1990 limiting impressions, and usage of ink, fountain solution, and cleaning solution, maintain a log of information and submit a quarterly report for monthly hour usage are replaced with the new limits.

The requirements from PC (54) 1746 issued on May 3, 1989 (Press 245) limiting hours of operation, limiting by press description, maintenance of a log of information and quarterly reporting of hours used ; PC (54) 1740 issued on April 5, 1989 (Press 293) limiting hours of operation, limiting by press description; Registered Construction (107) 2045 issued October 17, 1991 (Press 294) limiting by press description and pound per hour of ink and solution usage; Registered Construction and Operation Status CP 107-2947 issued April 23, 1993 (Press 296) limiting by press description; and Registered Construction and Operation Status CP 107-3433 issued January 21, 1994 (Press 296) limiting by press description are replaced with the new limits. Descriptions in Title V operating permits are for descriptive information and do not constitute enforceable conditions.

The requirements from PC (54) 1257 issued July 11, 1978 (Press 287 and Press 288), PC (34) 1285 issued on September 6, 1978 (Press 286) and PC (54) 1398 issued on June 18, 1979 limiting hydrocarbons (Press 270) and requiring the use of non-photochemically reactive hydrocarbons, are replaced because these presses were constructed prior to January 1, 1980 and are not subject to Article 8 rules. Also included are presses Press 285, Press 254, Press 272, Press 274 and Press 276 which were also built prior to January 1, 1980.

Exempt Construction and Operation Status CP 107-4781 issued September 28, 1995 (Press 258) is replaced by a new limitation on potential to emit of 10 tons per year. Any change or modification which may increase the volatile organic compound potential emissions to more than 10 tons per year must be reported to IDEM, OAQ.

Remaining presses will be limited as follows:

- (b) The VOC content delivered to the applicator of the press 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. Therefore, the best available control technology (BACT) requirement in 326 IAC 8-1-6 (New Facilities: General Reduction Requirements) does not apply. VOC emitted will be based on the following equation:

VOC emissions (tpy) = (ink usage X volatile content X 80% flash off) + (fountain solution usage X volatile content X 100% flash off) + (cleaner usage X volatile content X 50% flash off)

The requirements from Registered Construction and Operation Status (107) 2042 issued on July 11, 1991 (Press 232 and Press 233) to use an ultraviolet light curing system to limit VOC releases from the ink, the requirements to use a less volatile printing aid than

isopropyl alcohol* and limiting fountain solution to 2.5 percent VOC per gallon is being replaced with new language and limits because in order to maintain consistency in permit language, reporting and monitoring, it is intended to limit the VOC, rather than hours, impressions and limiting volatile content of solutions or press descriptions. Descriptions in Title V operating permits are for descriptive information and do not constitute enforceable conditions.

Amendment 107-10512-00052 issued March 15, 1999 allowed usage of isopropyl alcohol at 750 pounds per year as part of the fountain solution and shall remain in effect.

- (c) Pursuant to CP 107-4233 issued April 20, 1995, VOC input usage to Presses Press 242 and Press 243 shall be not exceed a combined 39 tons per year, based on 80% VOC flash-off during web heatset ink usage, calculated on a 12 month rolling monthly average. That the total amount of VOC delivered to each press individually, including clean-up solvents, shall not exceed 25 tons per year, per press, based on 80% VOC flash-off during web heatset ink usage, calculated on a 12 month rolling monthly average.
- (d) Presses 268 and 269 will be controlled by the North Oxidizer, a 7.6 MMBtu per hr thermal oxidizer, and Press 262 will be controlled by the South Oxidizer, a 1.894 MMBtu per hr thermal oxidizer. The thermal oxidizers shall be in operation at all times during which any of the printing presses controlled by the oxidizers are in operation. Pursuant to CP 107-2726 issued on February 26, 1993 and CP 107-2917 issued on April 6, 1993 the controls of the press, dryer and thermal afterburner for Presses and 269 shall be interlocked such that the press and dryer cannot be operated until such time that the combustion temperature in the thermal afterburner has attained the minimum temperature determined in testing requirements to destroy at least 90% of captured VOC.

The requirements from CP 107-2726 issued on February 26, 1993 and CP 107-2917 issued on April 6, 1993, conditions #5, #7, #8, # 9 and CP 107-2478 issued on June 17, 1992 conditions #4, and #5, were removed and have been replaced with new requirements, in order to regulate all thermal oxidizer within the entire facility on the same parameters, monitoring and reporting schedule to maintain compliance with 326 IAC 8-1-6 (BACT).

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

The VOC content delivered to Stainer 192 shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period. Therefore, the best available control technology (BACT) requirement in 326 IAC 8-1-6 (New Facilities: General Reduction Requirements) does not apply.

D.3.3 Clean-up Solvent VOC Emissions Control

The VOC flash off for clean-up solvent is 100%. As derived from A.U.S. EPA=s 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 formula 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 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.3.4 VOC Emissions

Compliance with Condition D.3.1 and D.3.2 shall be demonstrated within 30 days of the end of each month based on the total volatile organic compound usage for the most recent twelve (12) month period and appropriate flash off factors.

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

The PM from Stainer 192 shall not exceed the pound per hour emission rate established as E in the following formula:

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.3.6 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 all of these facilities and all control devices.

Compliance Determination Requirements

D.3.7 Particulate Matter (PM)

The dry filters shall be in operation at all times Stainer 192 is in operation, in order to comply with this limit.

D.3.8 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

Compliance stack tests shall be performed on the thermal oxidizers to determine the operating temperature and fan amperage or duct velocity at 90% minimum destruction of VOC within 180 days of issuance of this permit. These tests shall be repeated once every two and one (2 1/2) years. These tests shall be performed using methods approved by the OAQ. The OAQ shall be notified of the actual test date at least two weeks prior to the date, a test protocol shall be submitted to the OAQ, Compliance Data Section, 35 days in advance of the test, and all test reports must be received by the OAQ within 45 days of the completion of the testing.

D.3.9 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.3.10 Thermal Oxidizer

The North Oxidizer shall operate at all times that either of the Presses 268 or 269 are operating. The South Oxidizer, identified as RTO-1, shall operate at all times that Presses 260, 261, 262, or 273 are in operation. When operating, the thermal oxidizers shall maintain a minimum operating temperature of 1350°F or the temperature and fan amperage or duct velocity determined at the stack tests that achieves a minimum 90% destruction efficiency of the VOC.

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

D.3.11 Parametric Monitoring

(a) A continuous monitoring system shall be calibrated, maintained, and operated on the thermal oxidizers for measuring operating temperature. The output of this system shall be recorded, and that temperature shall be greater than or equal to the temperature used to demonstrate compliance during the most recent compliance stack test.

- (b) The duct pressure or fan amperage shall be observed at least once per week when the thermal oxidizer is in operation. This pressure or amperage shall be maintained within the range as established in most recent compliant stack test.
- (c) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the reading is outside the above established range for any one reading.

D.3.12 Particulate Matter Monitoring

- (a) Pursuant to CP 107-2853 daily inspection from the in-line Stainer Press 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. The Compliance Response Plan for this unit shall be followed whenever a condition exists which should result in a response step. Failure to take response steps in accordance with Section C - Compliance Response Plan-Preparation, Implementation, Records and Reports, shall be considered a violation of 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. The Compliance Response Plan for this unit shall be followed whenever a condition exists which should result in a response step. Failure to take response steps in accordance with Section C - Compliance Response Plan-Preparation, Implementation, Records and Reports, shall be considered a violation of this permit.
- (c) Additional inspections and preventive measures shall be performed as prescribed in the Preventive Maintenance Plan.

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

D.3.13 Record Keeping Requirements

- (a) To document compliance with Conditions D.3.1, D.3.2 and D.3.3, the Permittee shall maintain records in accordance with (1) through (5) below. Records maintained for (1) through (5) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC usage limits and/or the VOC emission limits established in Conditions D.3.1, D.3.2 and D.3.3
 - (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) and other documentation necessary to verify the type and amount used. Solvent usage records shall differentiate between those added to coatings and ink and those used as cleanup solvents;
 - (2) The volume weighted VOC content of the coatings used for each month;
 - (3) The total VOC usage for each month; and
 - (4) The weight of VOCs emitted for each compliance period.
 - (5) The VOC content of the used shop towels.
- (b) To document compliance with Condition D.3.12, the Permittee shall maintain a log of weekly overspray observations.

- (c) To document the compliance with Condition D.3.10 and D.3.11, 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) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.3.14 Reporting Requirements

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

**Indiana Department of Environmental Management
Office of Air Quality**

**Technical Support Document (TSD) for a Part 70
Minor Source and Minor Permit Modifications**

Source Description and Location

Source Name:	R.R. Donnelley & Sons Company
Source Location:	1009 Sloan Street, Crawfordsville, Indiana 47933-2741
County:	Montgomery
SIC Code:	2732
Operation Permit No.:	T 107-5963-00052
Operation Permit Issuance Date:	June 21, 2002
Minor Source Modification No.:	107-22646-00052
Minor Permit Modification No.:	107-22728-00052
Permit Reviewer:	CarrieAnn Paukowits

Existing Approvals

The source was issued a Part 70 Operating Permit T 107-5963-00052 on June 21, 2002. The source has since received the following approvals:

- (a) Administrative Amendment 107-17119-00052, issued on February 4, 2003;
- (b) Significant Permit Modification 107-16731-00052, issued on March 28, 2003;
- (c) Administrative Amendment 107-17255-00052, issued on April 8, 2003;
- (d) Significant Permit Modification 107-17225-00052, issued on May 13, 2005, and revoked by 107-17284-00052, issued on May 19, 2003;
- (e) Administrative Amendment 107-17454-00052, issued on July 25, 2003;
- (f) Administrative Amendment 107-18767-00052, issued on March 15, 2004; and
- (g) Minor Permit Modification 107-21171-00052, issued on August 5, 2005.

County Attainment Status

The source is located in Montgomery County.

Pollutant	Status
PM _{2.5}	attainment
PM ₁₀	attainment
SO ₂	attainment
NO ₂	attainment
1-Hour Ozone	attainment
8-Hour Ozone	attainment
CO	attainment
Lead	attainment

- (a) 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) Montgomery County has been classified as attainment for PM_{2.5}. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM_{2.5} emissions. Therefore, until the U.S. EPA adopts specific provisions for PSD review for PM_{2.5} emissions, it has directed states to regulate PM₁₀ emissions as a surrogate for PM_{2.5} emissions.
- (c) Montgomery County has been classified as attainment or unclassifiable in Indiana for all remaining criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (d) Fugitive Emissions
 Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3, fugitive emissions are not counted toward the determination of PSD and Emission Offset applicability.

Source Status

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

Pollutant	Emissions (tons/year)
PM	Less Than 250
PM ₁₀	Less Than 250
SO ₂	Less Than 250
VOC	Greater Than 250
CO	Less Than 250
NO _x	Less Than 250

- (a) This existing source is a major stationary source, under PSD (326 IAC 2-2), because a regulated pollutant is emitted at a rate of two hundred and fifty (250) tons per year or more, and it is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).
- (c) These emissions are based upon the TSD for MPM 107-21171-00052, issued on August 5, 2005.

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

HAPs	Potential To Emit (tons/year)
Single HAP	Greater than 10
TOTAL	Greater than 25

- (a) This existing source is a major source of HAPs, as defined in 40 CFR 63.41, 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).

- (b) The HAP emissions for the entire source have not been specifically calculated. HAPs potentially emitted from this source include Ethylene Glycol, Glycol Ethers, Xylenes, Ethyl benzene, and Cumene, at a minimum. Less than ten (10) tons per year of each individual HAP is emitted from combustion, including Benzene, Hexane, Dichlorobenzene, Formaldehyde, Toluene, Chromium, Cadmium, Manganese, Nickel and Lead.

Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 2003 OAQ emission data.

Pollutant	Actual Emissions (tons/year)
PM	Not reported
PM ₁₀	17
SO ₂	0
VOC	204
CO	10
NO _x	11
HAP (Ethylene Glycol)	2.19
HAP (Glycol Ethers)	4.22
HAP (Lead)	0.0001

Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed a modification application, submitted by R.R. Donnelley & Sons Company on February 9, 2006, relating to the construction and operation of an additional nonheatset, offset lithographic printing press at the existing book printing and binding source. The following is the newly proposed emission unit:

One (1) nonheatset, sheet-fed, offset lithographic printing press, identified as Press 250, constructed in 2006, exhausting to stack SP-5U(s), capacity: 13,000 sheets (14.56 million square inches) per hour.

Enforcement Issues

There are no pending enforcement actions.

Stack Summary

Stack ID	Operation	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature (°F)
SP-5U(S)	Press 250	35.0	0.7	750	Ambient

Emission Calculations

See Appendix A of this document for detailed emission calculations.

Permit Level Determination – Part 70

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

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

Pollutant	Potential To Emit (tons/year)
PM	0.00
PM ₁₀	0.00
SO ₂	0.00
VOC	24.3
CO	0.00
NO _x	0.00

HAPs	Potential To Emit (tons/year)
Hydroquinone	0.011
Glycol Ethers	1.79
Ethylene Glycol	4.60
Xylenes	0.048
TOTAL	6.45

This source modification is subject to 326 IAC 2-7-10.5 (d)(3)(B)(iii), modifications that would have a potential to emit less than twenty-five (25) tons per year and equal to or greater than ten (10) tons per year of volatile organic compounds (VOC) for modifications that do not require the use of air pollution control equipment to comply with the applicable provisions of 326 IAC 8.

Additionally, the modification will be incorporated into the Part 70 Operating Permit through a minor permit modification issued pursuant to 326 IAC 2-7-12(b) because it does not violate an applicable requirement, does not involve significant changes to existing monitoring, reporting or record keeping requirements, does not require or change a case-by-case determination of an emission limitation or standard, is not a modification under any provision of Title 1 of the Clean Air Act, and is not required by the Part 70 program to be processed as a Significant Permit Modification.

Permit Level Determination – PSD or Emission Offset

The table below summarizes the potential to emit, reflecting all limits, of the emission unit. Any control equipment is considered federally enforceable only after issuance of this Part 70 source and permit modifications, 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 (tons/year)						
	PM	PM ₁₀	SO ₂	VOC	CO	NO _x	HAPs
Press 250	0.00	0.00	0.00	24.3	0.00	0.00	6.45 total
Total for Modification	0.00	0.00	0.00	24.3	0.00	0.00	6.45 total
Significant Level	25	15	40	40	40	40	N/A

This modification to an existing major stationary source is not major because the emissions increase is less than the PSD significant levels. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply. There was no netting performed in determining the potential to emit.

Federal Rule Applicability Determination

The following federal rules are applicable to the source due to this modification:

- (a) This modification is for a nonheatset, sheet-fed, offset lithographic printing press, not a rotogravure printing press. Therefore, the requirements of 40 CFR 60, Subpart QQ, Standards of Performance for the Graphics Arts Industry: Publication Rotogravure Printing, are not included in the permit.
- (b) This modification is not a rotogravure printing line. Therefore, the requirements of 40 CFR 60, Subpart FFF, Standards of Performance for Flexible Vinyl and Urethane Coating and Printing, are not included in the permit.
- (c) This facility applies coatings to paper. Therefore, the requirements of 40 CFR 60, Subpart VVV, Standards of Performance for Polymeric Coating of Supporting Substrates Facilities, are not included in the permit.
- (d) This facility is not a publication rotogravure, product and packaging rotogravure, or wide-web flexographic printing press. Therefore, the requirements of 40 CFR 63, Subpart KK, National Emission Standards for the Printing and Publishing Industry, are not included in the permit.
- (e) This facility performs lithographic web printing. Therefore, pursuant to 40 CFR 63.3300(c), the facility is not subject to the requirements of 40 CFR 63, Subpart JJJJ, National Emission Standards for Hazardous Air Pollutants: Paper and Other Web Coating.
- (f) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is applicable to new or modified emission units that involve a pollutant-specific emission unit and meet the following criteria:
 - (1) has a potential to emit before or after controls equal to or greater than the 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 applicability criteria, under 40 CFR 64.1, to each new or modified emission unit involved:

Emission Unit	Control Device Used	Emission Limitation (Y/N)	Uncontrolled PTE (tons/year)	Controlled PTE (tons/year)	Major Source Threshold (tons/year)	CAM Applicable (Y/N)	Large Unit (Y/N)
Press 250	None	No	24.3	24.3	100	N	N

Based on this evaluation, the requirements of 40 CFR Part 64, CAM are not applicable to the new unit as part of this modification.

State Rule Applicability Determination

The following state rules are applicable to the source due to the modification:

326 IAC 2-2 and 2-3 (PSD and Emission Offset)

PSD and Emission Offset applicability is discussed under the Permit Level Determination - PSD and Emission Offset section.

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

The potential emissions of each individual HAP from the one (1) nonheatset, sheet-fed, offset lithographic printing press, identified as 250, are less than ten (10) tons per year and the potential emissions of any combination of HAPs are less than twenty-five (25) tons per year. Therefore, 326 IAC 2-4.1 does not apply.

326 IAC 2-6 (Emission Reporting)

Since this source is required to have an operating permit under 326 IAC 2-7, Part 70 Permit Program, this source is subject to 326 IAC 2-6 (Emission Reporting). In accordance with the compliance schedule in 326 IAC 2-6-3, an emission statement must be submitted triennially. The first report was due no later than July 1, 2005, and subsequent reports are due every three (3) years thereafter. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

326 IAC 8-1-6 (New facilities; General reduction requirements)

The potential VOC emissions from the one (1) nonheatset, sheet-fed, offset lithographic printing press, identified as 250, are less than twenty-five (25) tons per year. Therefore, the requirements of 326 IAC 8-1-6 are not applicable.

326 IAC 8-2-5 (Paper coating operations)

The one (1) nonheatset, sheet-fed, offset lithographic printing press, identified as 250, does not fully saturate the substrate. Therefore, the requirements of 326 IAC 8-2-5 are not applicable.

326 IAC 8-5-5 (Graphic arts operations)

The new printing press is a nonheatset, sheet-fed, offset lithographic printing press. This source is not a packaging rotogravure, publication rotogravure, or flexographic printing source. Therefore, the requirements of 326 IAC 8-5-5 are not applicable.

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.

- (a) The one (1) nonheatset, sheet-fed, offset lithographic printing press, identified as 250, does not have any compliance determination requirements.
- (b) The one (1) nonheatset, sheet-fed, offset lithographic printing press, identified as 250, does not have any compliance monitoring requirements.

Proposed Changes

The changes listed below have been made to Part 70 Operating Permit No. T 107-5963-00052. Deleted language appears as ~~strikethroughs~~ and new language appears in **bold**:

Change 1:

The following changes have been made due to the proposed modification:

- A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]
This book printing and binding operation source consists of the following emission units and pollution control devices:

North Plant:

- (1) Four (4) natural gas or propane fired boilers, with a maximum rating of 20.9 MMBtu (million British thermal units) per hour each:
 - (a) Boiler #1(N) with emissions exhausting through stack SB-4A(N).
 - (b) Boiler #2(N) with emissions exhausting through stack SB-4B(N).
 - (c) Boiler #3(N) with emissions exhausting through stack SB-4C(N).
 - (d) Boiler #4(N) with emissions exhausting through stack SB-4D(N).
- (2) One (1) natural gas or propane fired boiler, with a maximum rating of 2.56 MMBtu (million British thermal units) per hour: Boiler #5(N) with emissions exhausting through stack SB-4E(N).

- (3) Four (4) Paper Trim Cyclones:
 - (a) Paper Trim Cyclone #1(N) emissions exhausting through stack SBP-5H(N).
 - (b) Paper Trim Cyclone #2(N) emissions exhausting through stack SBP-5I(N).
 - (c) Paper Trim Cyclone #3(N) emissions exhausting through stack SBP-5J(N).
 - (d) Paper Trim Cyclone #4(N) emissions exhausting through stack SBP-5K(N).
- (4) Three (3) Paper Dust Collectors:
 - (a) Dust Collector #1(N) consists of a cyclone followed by a baghouse for particulate control and is exhausted through SD-6A(N).
 - (b) Dust Collector #2(N) consists of a baghouse for particulate control and is exhausted through SD-6B(N).
 - (c) Dust Collector #3(N) consists of a cyclone and followed by two (2) baghouses for particulate control and is exhausted through SD-6C(N).
- (5) Two (2) heatset web offset lithographic printing presses, controlled by one (1) 7.6 MMBtu per hour natural gas fired thermal oxidizer (ANorth Oxidizer®) exhausting to one (1) stack identified as SP-5Y(N), including:
 - (a) One (1) Mitsubishi heatset web offset lithographic printing press with two (2) units and two (2) webs identified as Press 268 with a maximum line speed of 1600 feet per minute and a maximum printing width of 64 inches, with associated in-line equipment; and
 - (b) One (1) Toshiba heatset web offset lithographic printing Press with four (4) units and two (2) webs identified as Press 269 with a maximum line speed of 1600 feet per minute and a maximum printing width of 50 inches, with associated in-line equipment.
- (6) One (1) Hantscho heatset web offset lithographic printing Press with two (2) units and two (2) webs identified as Press 240 with a maximum line speed of 1000 feet per minute and a maximum printing width of 33 inches, with associated in-line equipment, exhausting to one (1) stack SP-5R(N).
- (7) One (1) KBA Compacta heatset web offset lithographic printing Press with two (2) units and two (2) webs identified as Press 241 with a maximum line speed of 1100 feet per minute and a maximum printing width of 26 inches, with associated in-line equipment, exhausting to one (1) stack SP-5S(N).
- (8) One (1) Hantscho heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 245 with a maximum line speed of 1000 feet per minute and a maximum printing width of 33 inches, with associated in-line equipment, exhausting to one (1) stack SP-5Q(N).
- (9) One (1) Timson heatset web offset lithographic printing press with one (1) unit and one (1) web identified as Press 242 with a maximum line speed of 1200 feet per minute and a maximum printing width of 47 inches, with associated in-line equipment, exhausting to one (1) stack SP-5Z(N).

- (10) One (1) Timson heatset web offset lithographic printing press with one (1) unit and one (1) web identified as Press 243 with a maximum line speed of 1200 feet per minute and a maximum printing width of 47 inches, with associated in-line equipment, exhausting to one (1) stack SP-5AA(N).
- (11) One (1) Harris heatset web offset lithographic printing press with two (2) units and two (2) webs identified as Press 285 with a maximum line speed of 825 feet per minute and a maximum printing width of 26 inches, with associated in-line equipment, exhausting to one (1) stack SP-5K(N).
- (12) One (1) Harris heatset web offset lithographic printing press with two (2) units and two (2) webs identified as Press 286 with a maximum line speed of 825 feet per minute and a maximum printing width of 31 inches, with associated in-line equipment, exhausting to one (1) stack SP-5L(N).
- (13) One (1) Harris heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 287 with a maximum line speed of 825 feet per minute and a maximum printing width of 31 inches, with associated in-line equipment, exhausting to one (1) stack SP-5M(N).
- (14) One (1) Harris heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 288 with a maximum line speed of 825 feet per minute and a maximum printing width of 31 inches, with associated in-line equipment, exhausting to one (1) stack SP-5N(N).
- (15) One (1) Harris heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 289 with a maximum line speed of 825 feet per minute and a maximum printing width of 31 inches, with associated in-line equipment, exhausting to one (1) stack SP-5O(N).
- (16) Four (4) UV sheetfed offset lithographic presses:
 - (a) One (1) Heidelberg UV sheetfed offset lithographic press identified as Press 232 with a maximum line speed of 317 feet per minute and a maximum printing width of 25.5 inches including five (5) units and coater, exhausting to one (1) stack SP-5U(N) used as cooling air for UV lamps.
 - (b) One (1) Heidelberg UV sheetfed offset lithographic press identified as Press 233 with a maximum line speed of 317 feet per minute and a maximum printing width of 25.5 inches including five (5) units and coater, exhausting to one (1) stack SP-5U(N) used as cooling air for UV lamps.
 - (c) One (1) Heidelberg UV sheetfed offset lithographic press identified as Press 238 with a maximum line speed of 434 feet per minute and a maximum printing width of 40 inches including six (6) units and coater, exhausting to one (1) stack SP-5V(N) used as cooling air for UV lamps.
 - (d) One (1) Heidelberg UV sheetfed offset lithographic press identified as Press 239 with a maximum line speed of 473 feet per minute and a maximum printing width of 40 inches including two (2) units and coater, exhausting to one (1) stack SP-5W(N) used as cooling air for UV lamps.
- (17) One (1) conventional sheetfed offset lithographic press identified as Press 254 with a maximum line speed of 299 feet per minute and a maximum printing width of 60 inches.

South Plant:

- (1) Three (3) natural gas or propane fired boilers, with a maximum rating of 25.1 MMBtu (million British thermal units) per hour each:
 - (a) Boiler #1(S) with emissions exhausting through stack SB-4A(S).
 - (b) Boiler #2(S) with emissions exhausting through stack SB-4B(S).
 - (c) Boiler #3(S) with emissions exhausting through stack SB-4C(S).
- (2) Four (4) Paper Trim Cyclones:
 - (a) Paper Trim Cyclone #1(S) emissions exhausting through stack SBP-5E(S).
 - (b) Paper Trim Cyclone #2(S) emissions exhausting through stack SBP-5E(S).
 - (c) Paper Trim Cyclone #3(S) emissions exhausting through stack SBP-5E(S).
 - (d) Paper Trim Cyclone #4(S) emissions exhausting through stack SBP-5E(S).
- (3) Two (2) Paper Dust Collectors:
 - (a) Dust Collector #1(S) consists of two (2) cyclones each followed by a baghouse (two total) for particulate control and are exhausted through SD-6A(S) and new exhaust point SD-6C(S).
 - (b) Dust Collector #2(S) consists of a baghouse for particulate control and is exhausted through SD-6B(S).
- (4) One (1) Mitsubishi heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 262 with a maximum line speed of 1708 feet per minute and a maximum printing width of 61 inches, with associated in-line equipment, and with VOC emissions controlled by one (1) natural gas-fired regenerative thermal oxidizer, identified as RTO-1, rated at 1.7 million British thermal units per hour, exhausting to Stack SP-5T(S).
- (5) One (1) Hantscho heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 270 with a maximum line speed of 807 feet per minute and a maximum printing width of 33 inches, with associated in-line equipment, exhausting to SP-5F(S).
- (6) One (1) Cottrell heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 272 with a maximum line speed of 1000 feet per minute and a maximum printing width of 64 inches, with associated in-line equipment, exhausting to one (1) stack SP-5D(S).
- (7) One (1) Mitsubishi heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 273 with a maximum line speed of 1615 feet per minute and a maximum printing width of 64 inches, with associated in-line equipment, and with VOC emissions controlled by one (1) natural gas-fired regenerative thermal oxidizer, identified as RTO-1, rated at 1.7 million British thermal units per hour, exhausting to Stack SP-5T(S).
- (8) One (1) Cottrell heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 274 with a maximum line speed of 1000 feet per minute and a maximum printing width of 64 inches, with associated in-line equipment, exhausting to one (1)

stack SP-5C(S).

- (9) One (1) Cottrell heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 276 with a maximum line speed of 1200 feet per minute and a maximum printing width of 64 inches, with associated in-line equipment, exhausting to one (1) stack SP-5E(S).
- (10) One (1) Toshiba heatset web offset lithographic printing press with four (4) units and one (1) web identified as Press 260 with a maximum line speed of 1615 feet per minute and a maximum printing width of 36 inches, with associated in-line equipment, and with VOC emissions controlled by one (1) natural gas-fired regenerative thermal oxidizer, identified as RTO-1, rated at 1.7 million British thermal units per hour, exhausting to Stack SP-5T(S).
- (11) One (1) Toshiba heatset web offset lithographic printing press with four (4) units and one (1) web identified as Press 261 with a maximum line speed of 1500 feet per minute and a maximum printing width of 36 inches, with associated in-line equipment, and with VOC emissions controlled by one (1) natural gas-fired regenerative thermal oxidizer, identified as RTO-1, rated at 1.7 million British thermal units per hour, exhausting to Stack SP-5T(S).
- (12) One (1) Hantscho heatset web offset lithographic printing press with one (1) unit and one (1) web identified as Press 290 with a maximum line speed of 800 feet per minute and a maximum printing width of 26 inches, with associated in-line equipment, exhausting to one (1) stack SP-5G(S).
- (13) One (1) Hantscho heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 291 with a maximum line speed of 800 feet per minute and a maximum printing width of 26 inches, with associated in-line equipment, exhausting to one (1) stack SP-5H(S).
- (14) One (1) Hantscho heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 293 with a maximum line speed of 1000 feet per minute and a maximum printing width of 33 inches, with associated in-line equipment, exhausting to one (1) stack SP-5K(S).
- (15) One (1) Hantscho heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 294 with a maximum line speed of 1076 feet per minute and a maximum printing width of 33 inches, with associated in-line equipment, exhausting to one (1) stack SP-5M(S).
- (16) One (1) Hantscho heatset web offset lithographic printing press with two (2) units and two (2) webs identified as Press 295 with a maximum line speed of 1000 feet per minute and a maximum printing width of 33 inches, with associated in-line equipment, exhausting to one (1) stack SP-5P(S).
- (17) One (1) Harris heatset web offset lithographic printing press with two (2) units and two (2) webs identified as Press 296 with a maximum line speed of 860 feet per minute and a maximum printing width of 31 inches, with associated in-line equipment, exhausting to one (1) stack SP-5Q(S).
- (18) One (1) Heidelberg sheetfed offset lithographic press identified as Press 258 with a maximum line speed of 505 feet per minute and a maximum printing width of 40.5 inches including six (6) units and coater, exhausting to one (1) stack SP-5R(S) used as cooling air for electric heaters.
- (19) One (1) In-line Stainer 192 used for edge staining paper using low pressure-high volume spray coating and using dry filters for overspray control and exhausting through stack BS-4X(N).

- (20) One (1) nonheatset, sheet-fed, offset lithographic printing press, identified as Press 250, constructed in 2006, exhausting to stack SP-5U(s), capacity: 13,000 sheets (14.56 million square inches) per hour.**

SECTION D.3

FACILITY OPERATION CONDITION

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

North:

- (5) Two (2) heatset web offset lithographic printing presses, controlled by one (1) 7.6 MMBtu per hour natural gas fired thermal oxidizer (North Oxidizer) exhausting to one (1) stack identified as SP-5Y(N), including:
 - (a) One (1) Mitsubishi heatset web offset lithographic printing press with two (2) units and two (2) webs identified as Press 268 with a maximum line speed of 1600 feet per minute and a maximum printing width of 64 inches, with associated in-line equipment; and
 - (b) One (1) Toshiba heatset web offset lithographic printing press with two (2) units and two (2) webs identified as Press 269 with a maximum line speed of 1600 feet per minute and a maximum printing width of 50 inches, with associated in-line equipment.
- (6) One (1) Hantscho heatset web offset lithographic printing press with two (2) units and two (2) webs identified as Press 240 with a maximum line speed of 1000 feet per minute and a maximum printing width of 33 inches, with associated in-line equipment, exhausting to one (1) stack SP-5R(N).
- (7) One (1) KBA Compacta heatset web offset lithographic printing press with two (2) units and two (2) webs identified as Press 281 with a maximum line speed of 1100 feet per minute and a maximum printing width of 26 inches, with associated in-line equipment, exhausting to one (1) stack SP-5S(N).
- (8) One (1) Hantscho heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 245 with a maximum line speed of 1000 feet per minute and a maximum printing width of 33 inches, with associated in-line equipment, exhausting to one (1) stack SP-5Q(N).
- (9) One (1) Timson heatset web offset lithographic printing press with one (1) unit and one (1) web identified as Press 242 with a maximum line speed of 1200 feet per minute and a maximum printing width of 47 inches, with associated in-line equipment, exhausting to one (1) stack SP-5Z(N).
- (10) One (1) Timson heatset web offset lithographic printing press with one (1) unit and one (1) web identified as Press 243 with a maximum line speed of 1200 feet per minute and a maximum printing width of 47 inches, with associated in-line equipment, exhausting to one (1) stack SP-5AA(N).
- (11) One (1) Harris heatset web offset lithographic printing press with two (2) units and two (2) webs identified as Press 285 with a maximum line speed of 825 feet per minute and a maximum printing width of 26 inches, with associated in-line equipment, exhausting to one (1) stack SP-5K(N).
- (12) One (1) Harris heatset web offset lithographic printing press with two (2) units and two (2) webs identified as Press 286 with a maximum line speed of 825 feet per minute and a maximum printing width of 31 inches, with associated in-line equipment, exhausting to one (1) stack SP-5L(N).
- (13) One (1) Harris heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 287 with a maximum line speed of 825 feet per minute and a maximum printing width of 31 inches, with associated in-line equipment, exhausting to one (1) stack SP-5M(N).
- (14) One (1) Harris heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 288 with a maximum line speed of 825 feet per minute and a maximum printing width of 31 inches, with associated in-line equipment, exhausting to one (1) stack SP-5N(N).
- (15) One (1) Harris heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 289 with a maximum line speed of 825 feet per minute and a maximum printing width of 31 inches, with associated in-line equipment, exhausting to one (1) stack SP-5O(N). ~~coater, exhausting to one (1) stack SP-5V(N) used as cooling air for UV lamps.~~

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

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

- (16) Four (4) UV sheetfed offset lithographic presses:
 - (a) One (1) Heidelberg UV sheetfed offset lithographic press identified as Press 232 with a maximum line speed of 317 feet per minute and a maximum printing width of 25.5 inches including five (5) units and coater, exhausting to one (1) stack SP-5U(N) used as cooling air for UV lamps.
 - (b) One (1) Heidelberg UV sheetfed offset lithographic press identified as Press 233 with a maximum line speed of 317 feet per minute and a maximum printing width of 25.5 inches including five (5) units and coater, exhausting to one (1) stack SP-5U(N) used as cooling air for UV lamps.
 - (c) One (1) Heidelberg UV sheetfed offset lithographic press identified as Press 238 with a maximum line speed of 434 feet per minute and a maximum printing width of 40 inches including six (6) units and coater, exhausting to one (1) stack SP-5V(N) used as cooling air for UV lamps.
 - (d) One (1) Heidelberg UV sheetfed offset lithographic press identified as Press 239 with a maximum line speed of 473 feet per minute and a maximum printing width of 40 inches including two (2) units and coater, exhausting to one (1) stack SP-5W(N) used as cooling air for UV lamps.
- (18) One (1) conventional sheetfed offset lithographic press identified as Press 254 with a maximum line speed of 299 feet per minute and a maximum printing width of 60 inches.

South:

- (4) One (1) Mitsubishi heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 262 with a maximum line speed of 1708 feet per minute and a maximum printing width of 61 inches, with associated in-line equipment and with VOC emissions controlled by one (1) natural gas-fired regenerative thermal oxidizer, identified as RTO-1, rated at 1.7 million British thermal units per hour, exhausting to Stack SP-5T(S).
- (5) One (1) Hantscho heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 270 with a maximum line speed of 807 feet per minute and a maximum printing width of 33 inches, with associated in-line equipment, exhausting to SP-5F(S).
- (6) One (1) Cottrell heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 272 with a maximum line speed of 1000 feet per minute and a maximum printing width of 64 inches, with associated in-line equipment, exhausting to one (1) stack SP-5D(S).
- (7) One (1) Mitsubishi heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 273 with a maximum line speed of 1615 feet per minute and a maximum printing width of 64 inches, with associated in-line equipment, and with VOC emissions controlled by one (1) natural gas-fired regenerative thermal oxidizer, identified as RTO-1, rated at 1.7 million British thermal units per hour, exhausting to Stack SP-5T(S).
- (8) One (1) Cottrell heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 274 with a maximum line speed of 1000 feet per minute and a maximum printing width of 64 inches, with associated in-line equipment, exhausting to one (1) stack SP-5C(S).
- (9) One (1) Cottrell heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 276 with a maximum line speed of 1200 feet per minute and a maximum printing width of 64 inches, with associated in-line equipment, exhausting to one (1) stack SP-5E(S).
- (10) One (1) Toshiba heatset web offset lithographic printing press with four (4) units and one (1) web identified as Press 260 with a maximum line speed of 1615 feet per minute and a maximum printing width of 36 inches, with associated in-line equipment, and with VOC emissions controlled by one (1) natural gas-fired regenerative thermal oxidizer, identified as RTO-1, rated at 1.7 million British thermal units per hour, exhausting to Stack SP-5T(S).

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

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

- (11) One (1) Toshiba heatset web offset lithographic printing press with four (4) units and one (1) web identified as Press 261 with a maximum line speed of 1500 feet per minute and a maximum printing width of 36 inches, with associated in-line equipment, and with VOC emissions controlled by one (1) natural gas-fired regenerative thermal oxidizer, identified as RTO-1, rated at 1.7 million British thermal units per hour, exhausting to Stack SP-5T(S).
- (12) One (1) Hantscho heatset web offset lithographic printing press with one (1) unit and one (1) web
- (14) One (1) Hantscho heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 293 with a maximum line speed of 1000 feet per minute and a maximum printing width of 33 inches, with associated in-line equipment, exhausting to one (1) stack SP-5K(S).
- (15) One (1) Hantscho heatset web offset lithographic printing press with four (4) units and two (2) webs identified as Press 294 with a maximum line speed of 1076 feet per minute and a maximum printing width of 33 inches, with associated in-line equipment, exhausting to one (1) stack SP-5M(S).
- (16) One (1) Hantscho heatset web offset lithographic printing press with two (2) units and two (2) webs identified as Press 295 with a maximum line speed of 1000 feet per minute and a maximum printing width of 33 inches, with associated in-line equipment, exhausting to one (1) stack SP-5P(S).
- (17) One (1) Harris heatset web offset lithographic printing press with two (2) units and two (2) webs identified as Press 296 with a maximum line speed of 860 feet per minute and a maximum printing width of 31 inches, with associated in-line equipment, exhausting to one (1) stack SP-5Q(S).
- (18) One (1) Heidelberg sheetfed offset lithographic press identified as Press 258 with a maximum line speed of 505 feet per minute and a maximum printing width of 40.5 inches including six (6) units and coater, exhausting to one (1) stack SP-5R(S) used as cooling air for electric heaters.
- (19) One (1) In-line Stainer 192 used for edge staining paper using low pressure-high volume spray coating and using dry filters for overspray control and exhausting through stack BS-4X(S).
- (20) **One (1) nonheatset, sheet-fed, offset lithographic printing press, identified as Press 250, constructed in 2006, exhausting to stack SP-5U(s), capacity: 13,000 sheets (14.56 million square inches) per hour.**

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

D.3.6 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~~ **all of these facilities** and ~~its~~ **all** control devices.

Change 2:

The IDEM, OAQ, zip code has been updated in all places in the permit as follows:

100 North Senate Avenue
Indianapolis, Indiana 46204-**2251**

Conclusion and Recommendation

The construction and operation of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Minor Source Modification No. 107-22646-00052 and Minor Permit Modification No. 107-22728-00052. The staff recommends to the Commissioner that these Part 70 Minor Source and Minor Permit Modifications be approved.

**Appendix A: Emissions Calculations
VOC and HAPs From Printing Press Operations**

Company Name: R.R. Donnelley & Sons Company
Address City IN Zip: 1009 Sloan Street, Crawfordsville, IN 47933-2741
Minor Source Modification No.: 107-22646-00052
Minor Permit Modification No.: 107-22728-00052
Reviewer: CarrieAnn Paukowits
Application Date: February 9, 2006

THROUGHPUT				
Press I.D.	Sheet Capacity per Hour	MAXIMUM SHEET LENGTH (INCHES)	MAXIMUM PRINT WIDTH (INCHES)	MMin ² /YEAR
250	13000	28	40	127546

INK VOCS					
Ink Name Press Id	Maxium Coverage '(lbs/MMin ²)	Weight % Volatiles*	Flash Off %	Throughput (MMin ² /Year)	VOC Emissions (TONS/YEAR)
Lithographic Ink**	0.8	26.30%	5.00%	127546	0.67
Fountain Solution Concentrate	0.265	18%	100.00%	127546	3.04
Alcohol Substitute	0.2402	100%	100.00%	127546	15.3
Coating	1.6	0.00%	100.00%	127546	0.00
Manual Cleaning Solvent	0.016	100%	50.00%	127546	0.51
Auto Cleaning Solvent	0.075	100%	100.00%	127546	4.78

Total Emissions (tons/yr) = **24.3 tons/yr**

Ink Name Press Id	Weight % Hydroquinone	Weight % Glycol Ethers	Weight % Ethylene Glycol	Weight % Xylenes	Hydroquinone Emissions (tons/yr)	Glycol Ethers Emissions (tons/yr)	Ethylene Glycol Emissions (tons/yr)	Xylenes Emissions (tons/yr)
Lithographic Ink**	0.45%	0.00%	0.00%	0.00%	0.011	0.00	0.00	0.00
Fountain Solution Concentrate	0.00%	10.00%	0.00%	0.00%	0.00	1.69	0.00	0.00
Alcohol Substitute	0.00%	0.00%	30.00%	0.00%	0.00	0.00	4.60	0.00
Coating	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00
Manual Cleaning Solvent	0.00%	20.00%	0.00%	0.00%	0.00	0.10	0.00	0.00
Auto Cleaning Solvent	0.00%	0.00%	0.00%	1.00%	0.00	0.00	0.00	0.048
Totals:					0.011	1.79	4.60	0.048

Combined HAPs Total (tons/yr): 6.45

**P6110 Magenta has the highest VOC content of the inks used in this press. Therefore, these values are for that ink.

*VOC (Tons/Year) = Maximum Coverage pounds per MMin² * Weight % volatiles (weight % of water & organics - weight % of water = weight % organics) * Flash off * Throughput * 1 Ton pe

METHODOLOGY

Throughput = Maxium line speed feet per minute * Convert feet to inches * Maximum print width inches * 60 minutes per hour * 8760 hours per year = MMin² per Year

VOC and HAPs emissions = Maximum Coverage pounds per MMin² * Weight percentage VOC or HAPs * Flash off * Throughput * Tons per 2000 pounds = Tons per Year

NOTE: HEAT SET OFFSET PRINTING HAS AN ASSUMED FLASH OFF OF 80% and NON-HEATSET OFFSET LITHOGRAPHIC PRINTING HAS AN ASSUMED FLASH OFF OF 5%.

OTHER TYPES OF PRINTERS HAVE A FLASH OFF OF 100%.

(Source -OAQPS Draft Guidance, "Control of Volatile Organic Compound Emissions from Offset Lithographic Printing (9/93))