



Joseph E. Kernan
Governor

Lori F. Kaplan
Commissioner

July 1, 2004

100 North Senate Avenue
P.O. Box 6015
Indianapolis, Indiana 46206-6015
(317) 232-8603
(800) 451-6027
www.in.gov/idem

TO: Interested Parties / Applicant

RE: Lincoln Printing, Inc / 003-18842-00332

FROM: Paul Dubenetzky
Chief, Permits Branch
Office of Air Quality

Notice of Decision – Approval

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

If you wish to challenge this decision, IC 4-21.5-3-7 requires that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within eighteen (18) calendar days from the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

Enclosures
FNPER-AM.dot 9/16/03



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live.

Joseph E. Kernan
Governor

Lori F. Kaplan
Commissioner

100 North Senate Avenue
P.O. Box 6015
Indianapolis, Indiana 46206-6015
(317) 232-8603
(800) 451-6027
www.in.gov/idem

July 1, 2004

Mr. J. Randy Roberts
Lincoln Printing, Inc.
3310 Congressional Parkway
Fort Wayne, Indiana 46808

Re: Exempt Construction and Operation Status,
003-18842-00332

Dear Mr. Roberts:

The application from Lincoln Printing, Inc., received on April 13, 2004, has been reviewed. Based on the data submitted and the provisions in 326 IAC 2-1.1-3, it has been determined that the following emission units, located at 3310 Congressional Parkway, Fort Wayne, Indiana, are classified as exempt from air pollution permit requirements:

- (a) One (1) non-heatset offset lithographic printing press, identified as Press #1, constructed in 1990, with a maximum printing speed of 228 ft/min and a maximum printing width of 27.2 inches.
- (b) One (1) non-heatset offset lithographic printing press, identified as Press #2, constructed in 2003, with a maximum printing speed of 420 ft/min and a maximum printing width of 40.1 inches, equipped with one (1) infrared heater.
- (c) One (1) non-heatset offset lithographic printing press, identified as Press #3, constructed in 1980, with a maximum printing speed of 85.1 ft/min and a maximum printing width of 17.5 inches.
- (d) Three (3) paper cutters, each with a maximum throughput rate of less than 100 lbs/hr.
- (e) Four (4) natural gas fired furnaces, each with a maximum heat input capacity of 0.175 MMBtu/hr.

The following conditions shall be applicable:

- (1) Pursuant to 326 IAC 5-1-2 (Opacity Limitations) except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following:
 - (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 15 minutes (60 readings) in a 6-hour period 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.

- (2) Pursuant to 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate for each paper cutter is 0.551 lbs/hr.
- (3) Pursuant to 326 IAC 2-1.1-3 (Exemption), The Permittee shall maintain records in accordance with (a) through (c) below. Records maintained for (a) through (c) shall be taken monthly and shall be complete and sufficient to establish compliance with the Exemption status.
 - (a) The amount, VOC content, and HAP content of each ink and solvent used. Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used. Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents;
 - (b) The total VOC and HAP emissions for each month; and
 - (c) The total VOC and HAP emissions for each twelve (12) consecutive month period.

Any change or modification which may increase the potential emissions to 10 tons per year or more of volatile organic compounds must be approved by the IDEM, OAQ before any such change may occur. Additionally, any change or modification which may increase the potential emissions of a single HAP to greater than 1.0 ton per year or a combination of HAPs to greater than 2.5 tons per year must be approved by IDEM, OAQ before such change may occur.

This exemption is the first air approval issued to this source.

An application or notification shall be submitted in accordance with 326 IAC 2 to the Office of Air Quality (OAQ) if the source proposes to construct new emission units, modify existing emission units, or otherwise modify the source.

Sincerely,

Original Signed by

Paul Dubenetzky, Chief
Permits Branch
Office of Air Quality

ERG/YC

cc: File - Allen County
Allen County Health Department
Air Compliance – Jennifer Dorn
Permit Tracking – Sara Cloe
Compliance Data Section

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

Technical Support Document (TSD) for an Exemption

Source Background and Description

Source Name:	Lincoln Printing, Inc.
Source Location:	3310 Congressional Parkway, Fort Wayne, Indiana 46808
County:	Allen
SIC Code:	2752
Exemption No.:	003-18842-00332
Permit Reviewer:	ERG/YC

The Office of Air Quality (OAQ) has reviewed an application from Lincoln Printing, Inc. relating to the operation of a printing facility.

Permitted Emission Units and Pollution Control Equipment

There are no permitted emission units and pollution control devices at this source.

Unpermitted Emission Units and Pollution Control Equipment

There are no unpermitted emission units operating at this source during this review process.

Exempted Emission Units and Pollution Control Equipment

The application includes information relating to the operation of the following equipment:

- (a) One (1) non-heatset offset lithographic printing press, identified as Press #1, constructed in 1990, with a maximum printing speed of 228 ft/min and a maximum printing width of 27.2 inches.
- (b) One (1) non-heatset offset lithographic printing press, identified as Press #2, constructed in 2003, with a maximum printing speed of 420 ft/min and a maximum printing width of 40.1 inches, equipped with one (1) infrared heater.
- (c) One (1) non-heatset offset lithographic printing press, identified as Press #3, constructed in 1980, with a maximum printing speed of 85.1 ft/min and a maximum printing width of 17.5 inches.
- (d) Three (3) paper cutters, each with a maximum throughput rate of less than 100 lbs/hr.
- (e) Four (4) natural gas fired furnaces, each with a maximum heat input capacity of 0.175 MMBtu/hr.

Existing Approvals

This exemption is the first air approval issued to this source.

Enforcement Issue

There are no enforcement actions pending.

Recommendation

The staff recommends to the Commissioner that the operation be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

A complete application for the purposes of this review was received on April 13, 2004. Additional information was received on June 16, 2004.

Emission Calculations

See Appendix A of this document for detailed emission calculations (Appendix A, pages 1 through 4). The HAP emissions from this source are negligible.

Potential to Emit of the Source Before Controls

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as “the maximum capacity of a stationary source or emissions 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, the department, or the appropriate local air pollution control agency.”

Pollutant	Potential to Emit (tons/yr)
PM	0.02
PM-10	0.02
SO ₂	Negligible
VOC	7.26
CO	0.26
NO _x	0.31

HAPs	Potential to Emit (tons/yr)
Total	Negligible

- (a) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) all criteria pollutants is less than 100 tons per year. Therefore, the source is not subject to the provisions of 326 IAC 2-7.
- (b) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of any single HAP is less than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-1.1-1(16)) of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, the source is not subject to the provisions of 326 IAC 2-7.
- (c) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of all criteria pollutants and PM is less than 25 tons per year. Therefore, the source is not subject to the provisions of 326 IAC 2-6.1.

- (d) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of all pollutants is less than the levels listed in 326 IAC 2-5.5-1(b). Therefore, the source is not subject to the provisions of 326 IAC 2-5.5-1 (Registration).
- (e) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of all pollutants is less than the levels listed in 326 IAC 2-1.1-3(d)(1). Therefore, the source is subject to the provisions of 326 IAC 2-1.1-3 (Exemption).
- (f) **Fugitive Emissions**
Since this type of operation is not in one of the twenty-eight (28) listed source categories under 326 IAC 2-2, and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Nonattainment NSR applicability.

County Attainment Status

The source is located in Allen County.

Pollutant	Status
PM-10	Attainment
SO ₂	Attainment
NO ₂	Attainment
1-Hour Ozone	Attainment
8-Hour Ozone	Nonattainment
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 the ozone standards. Allen County has been designated as nonattainment for the 8-hour ozone standard. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for nonattainment new source review.
- (b) Allen 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.
- (c) **Fugitive Emissions**
Since this type of operation is not in one of the 28 listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Nonattainment NSR applicability.

Source Status

Existing Source PSD and Nonattainment NSR Definition (emissions after controls, based on 8760 hours of operation per year at rated capacity and/or as otherwise limited):

Pollutant	Emissions (tons/yr)
PM	0.51
PM-10	0.51
SO ₂	0.42
VOC	0.54
CO	0.99
NO _x	1.48
Single HAP	Negligible
Combination HAPs	Negligible

- (a) This new source is not a Nonattainment NSR major source because no regulated nonattainment pollutant is emitted at a rate of 100 tons/yr or greater.
- (b) This new source is not a PSD major stationary source because no attainment regulated pollutant is emitted at a rate of 250 tons per year or greater and it is not in one of the 28 listed source categories.

Part 70 Permit Determination

326 IAC 2-7 (Part 70 Permit Program)

This existing source is not subject to the Part 70 Permit requirements because the potential to emit (PTE) of:

- (a) each criteria pollutant is less than 100 tons per year,
- (b) a single hazardous air pollutant (HAP) is less than 10 tons per year, and
- (c) any combination of HAPs is less than 25 tons per year.

This is the first air approval issued to this source.

Federal Rule Applicability

- (a) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) applicable to this source.
- (b) This source does not have a rotogravure printing line. Therefore, the New Source Performance Standards for Publication Rotogravure Printing (326 IAC 12, 40 CFR 60.430-60.453, Subpart QQ) are not applicable.
- (c) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP)(326 IAC 14, 20 and 40 CFR Part 61, 63) applicable to this source.
- (d) This source is not a major source for HAPs. Therefore, the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for the Printing and Publishing Industry (326 IAC 20, 40 CFR 63.820 - 63.839, Subpart KK) are not applicable.

State Rule Applicability – Entire Source

326 IAC 2-2 (Prevention of Significant Deterioration (PSD))

This new source is not in 1 of the 28 source categories defined in 326 IAC 2-2-1(p)(1). The potential to emit of each criteria pollutant and PM before control is less than 250 tons per year. Therefore, this source is not major under 326 IAC 2-2 (PSD).

326 IAC 2-1.1-5 (Nonattainment NSR)

This source is located in Allen County, which was redesignated as a nonattainment area for 8-hour Ozone in June, 2004. The potential to emit VOC and NO_x from this source is each less than 100 tons/yr. Therefore, this source is a minor source under Nonattainment NSR.

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

The potential to emit HAPs from this source is less than 10 tons/yr for a single HAP and less than 25 tons/yr for any combination of HAPs. Therefore, the requirements of 326 IAC 2-4.1 are not applicable.

326 IAC 2-1.1-3 (Exemption)

The potential to emit of this source is less than 10 tons/yr for VOC, less than 1.0 ton/yr for a single HAP, and less than 2.5 tons/yr for total HAPs. Therefore, this source is an exempt source, pursuant to 326 IAC 2-1.1-3 (Exemption).

The Permittee shall maintain records in accordance with (a) through (c) below. Records maintained for (a) through (c) shall be taken monthly and shall be complete and sufficient to establish compliance with the Exemption status.

- (a) The amount, VOC content, and HAP content of each ink and solvent used. Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used. Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents;
- (b) The total VOC and HAP emissions for each month; and
- (c) The total VOC and HAP emissions for each twelve (12) consecutive month period.

Any change or modification which may increase the potential emissions to 10 tons per year or more of volatile organic compounds must be approved by the IDEM, OAQ before any such change may occur. Additionally, any change or modification which may increase the potential emissions of a single HAP to greater than 1.0 tons per year or a combination of HAPs to greater than 2.5 tons per year must be approved by IDEM, OAQ before such change may occur.

326 IAC 2-6 (Emission Reporting)

This source is located in Allen County and is not required to operate under a Part 70 permit. Therefore, the requirements of 326 IAC 2-6 are not applicable to this source.

326 IAC 5-1 (Opacity Limitations)

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

State Rule Applicability – Printing Presses

326 IAC 8-1-6 (General Reduction Requirements for VOC Emissions)

Each of the printing presses at this source has the potential VOC emissions less than 25 tons per year. Therefore, the requirements of 326 IAC 8-1-6 are not applicable.

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

This source does not have any rotogravure and flexographic printing presses. Therefore, the requirements of 326 IAC 8-5-5 are not applicable.

State Rule Applicability – Paper Cutters

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

The maximum throughput rate of each paper cutter is less than 100 lbs/hr. Pursuant to 326 IAC 6-3-2(e)(2), the allowable particulate emission rate for each paper cutter is 0.551 lbs/hr.

State Rule Applicability – Natural Gas Fired Heaters

There are no specifically applicable requirements for these heaters.

Conclusion

The operation of this printing facility shall be subject to the conditions of the Exemption No.: 003-18842-00332.

Appendix A: Emissions Calculations
VOC Emissions from Non-Heatset Printing Press #1

Company Name: Lincoln Printing, Inc.
Address: 3310 Congressional Parkway, Fort Wayne, IN 46808
Exemption #: 003-18842-00332
Reviewer: ERG/YC
Date: June 18, 2004

THROUGHPUT				
Press I.D.	MAXIMUM LINE SPEED (ft/min)	MAXIMUM PRINT WIDTH (inches)	*Max. Operating Hours (hr/yr)	MMin ² /yr
Press #1	228	27.2	6,023	26,891

* Averaged downtime required is 2.5 hours per 8 hour shift. Therefore, the maximum operating hours = (8-2.5)hr/shift x 3 shift/day x 365 day/yr = 6022.5 hr/yr

PTE of VOC					
Material Name	Maxium Coverage (lbs/MMin ²)	Weight % Volatiles	**Flash Off %	Throughput (MMin ² /yr)	Emissions (tons/yr)
	Ink / Varnish				
Braden/Wikoff Inks	2.62	19.8%	5.00%	26,891	3.49E-01
Wikoff Varnish	0.053	30.9%	5.00%	26,891	1.10E-02
	Fountain Solution				
2451 Fountain Solution	0.04	24.1%	100%	26,891	1.30E-01
Alkaless 6000 IPA Substitute	0.017	88.8%	100%	26,891	2.03E-01
Auto Wash 4002F	0.134	99.5%	100%	26,891	1.79E+00
MRC-K Metering Roller Cleaner	0.004	98.7%	100%	26,891	5.31E-02
Rycokleen #861000	0.0007	1.86%	100%	26,891	1.75E-04
Hurst Machine Cleaner #210	0.00006	79.8%	100%	26,891	6.44E-04
IPA Alcohol	0.00028	100%	100%	26,891	3.76E-03
Sprayway Silicone Spray 945	0.00009	94.7%	100%	26,891	1.15E-03
Allied Plate Fix	0.0007	2.33%	100%	26,891	2.19E-04
Allied UPC Plate Cleaner	0.0007	53.0%	100%	26,891	4.99E-03
Rycoline Duo-Clean Cleaner	0.00029	98.6%	100%	26,891	3.84E-03
Rycoline Stay Open Spray	0.00007	98.0%	100%	26,891	9.22E-04

** According to EPA Document PB95-201422, the flash off % for the inks used for non-heatset printing presses is 5% (09/93).

Total VOC Emissions = **2.55**
Tons/yr

METHODOLOGY

Throughput (MMin²/yr) = Maxium Line Speed (ft/min) x 12 in/ft x Max. Print Width (inches) x 60 min/hr x Max. Operating Hours (hr/yr) x 1 MMin²/1,000,000 in²

PTE of VOC (tons/yr) = Maximum Coverage (lbs/MMin²) x Throughput (MMin²/yr) x Weight % VOC x Flash Off % x 1 ton/2000 lbs

Appendix A: Emissions Calculations
VOC Emissions from Non-Heatset Printing Press #2

Company Name: Lincoln Printing, Inc.
Address: 3310 Congressional Parkway, Fort Wayne, IN 46808
Exemption #: 003-18842-00332
Reviewer: ERG/YC
Date: June 18, 2004

THROUGHPUT				
Press I.D.	MAXIMUM LINE SPEED (ft/min)	MAXIMUM PRINT WIDTH (inches)	*Max. Operating Hours (hr/yr)	MMin ² /yr
Press #2	420	40.1	6,023	73,030

* Averaged downtime required is 2.5 hours per 8 hour shift. Therefore, the maximum operating hours = (8-2.5)hr/shift x 3 shift/day x 365 day/yr = 6022.5 hr/yr

PTE of VOC					
Material Name	Maxium Coverage (lbs/MMin ²)	Weight % Volatiles	**Flash Off %	Throughput (MMin ² /yr)	Emissions (tons/yr)
	Ink / Varnish				
Braden/Wikoff Inks	2.62	19.8%	5.00%	73,030	9.47E-01
Wikoff Varnish	0.053	30.9%	5.00%	73,030	2.99E-02
	Fountain Solution				
2451 Fountain Solution	0.024	24.1%	100%	73,030	2.11E-01
Alkaless 6000 IPA Substitute	0.010	88.8%	100%	73,030	3.24E-01
Auto Wash 4002F	0.074	99.5%	100%	73,030	2.69E+00
MRC-K Metering Roller Cleaner	0.0015	98.7%	100%	73,030	5.41E-02
Rycokleen #861000	0.00036	1.86%	100%	73,030	2.45E-04
Hurst Machine Cleaner #210	0.00003	79.8%	100%	73,030	8.74E-04
IPA Alcohol	0.00015	100%	100%	73,030	5.48E-03
Sprayway Silicone Spray 945	0.00005	94.7%	100%	73,030	1.73E-03
Allied Plate Fix	0.00004	2.33%	100%	73,030	3.40E-05
Allied UPC Plate Cleaner	0.00004	53.0%	100%	73,030	7.74E-04
Rycoline Duo-Clean Cleaner	0.00016	98.6%	100%	73,030	5.76E-03
Rycoline Stay Open Spray	0.00004	98.0%	100%	73,030	1.43E-03

* According to EPA Document PB95-201422, the flash off % for the inks used for non-heatset printing presses is 5% (09/93).

Total VOC Emissions = **4.27**
Tons/yr

METHODOLOGY

Throughput (MMin²/yr) = Maximum Line Speed (ft/min) x 12 in/ft x Max. Print Width (inches) x 60 min/hr x Max. Operating Hours (hr/yr) x 1 MMin²/1,000,000 in²

PTE of VOC (tons/yr) = Maximum Coverage (lbs/MMin²) x Throughput (MMin²/yr) x Weight % VOC x Flash Off % x 1 ton/2000 lbs

Appendix A: Emissions Calculations
VOC Emissions from Non-Heatset Printing Press #3

Company Name: Lincoln Printing, Inc.
Address: 3310 Congressional Parkway, Fort Wayne, IN 46808
Exemption #: 003-18842-00332
Reviewer: ERG/YC
Date: June 18, 2004

THROUGHPUT				
Press I.D.	MAXIMUM LINE SPEED (ft/min)	MAXIMUM PRINT WIDTH (inches)	*Max. Operating Hours (hr/yr)	MMin ² /yr
Press #2	85.1	17.5	6,023	6,458

* Averaged downtime required is 2.5 hours per 8 hour shift. Therefore, the maximum operating hours = (8-2.5)hr/shift x 3 shift/day x 365 day/yr = 6022.5 hr/yr

PTE of VOC					
Material Name	Maxium Coverage (lbs/MMin ²)	Weight % Volatiles	**Flash Off %	Throughput (MMin ² /yr)	Emissions (tons/yr)
	Ink / Varnish				
Braden/Wikoff Inks	2.62	19.8%	5.00%	6,458	8.37E-02
Wikoff Varnish	0.053	30.9%	5.00%	6,458	2.64E-03
	Fountain Solution				
2451 Fountain Solution	0.011	24.1%	100%	6,458	8.56E-03
Alkaless 6000 IPA Substitute	0.005	88.8%	100%	6,458	1.43E-02
Auto Wash 4002F	0.091	99.5%	100%	6,458	2.92E-01
MRC-K Metering Roller Cleaner	0.004	98.7%	100%	6,458	1.27E-02
Rycokleen #861000	0.00138	1.86%	100%	6,458	8.29E-05
Hurst Machine Cleaner #210	0.00012	79.8%	100%	6,458	3.09E-04
IPA Alcohol	0.00059	100%	100%	6,458	1.91E-03
Sprayway Silicone Spray 945	0.00019	94.7%	100%	6,458	5.81E-04
Allied Plate Fix	0.00015	2.33%	100%	6,458	1.13E-05
Allied UPC Plate Cleaner	0.00015	53.0%	100%	6,458	2.57E-04
Rycoline Duo-Clean Cleaner	0.00062	98.6%	100%	6,458	1.97E-03
Rycoline Stay Open Spray	0.00016	98.0%	100%	6,458	5.06E-04

* According to EPA Document PB95-201422, the flash off % for the inks used for non-heatset printing presses is 5% (09/93).

Total VOC Emissions = **0.42**
Tons/yr

METHODOLOGY

Throughput (MMin²/yr) = Maximum Line Speed (ft/min) x 12 in/ft x Max. Print Width (inches) x 60 min/hr x Max. Operating Hours (hr/yr) x 1 MMin²/1,000,000 in²

PTE of VOC (tons/yr) = Maximum Coverage (lbs/MMin²) x Throughput (MMin²/yr) x Weight % VOC x Flash Off % x 1 ton/2000 lbs

**Appendix A: Emission Calculations
 Natural Gas Combustion
 (MMBtu/hr < 100)
 From Four (4) 0.175 MMBtu/hr Furnaces**

Company Name: Lincoln Printing, Inc.
Address: 3310 Congressional Parkway, Fort Wayne, IN 46808
Exemption #: 003-18842-00332
Reviewer: ERG/YC
Date: June 18, 2004

Heat Input Capacity
 MMBtu/hr

Potential Throughput
 MMCF/yr

0.70 (4 units combined)

6.1

Emission Factor in lbs/MMCF	Pollutant					
	PM*	PM10*	SO ₂	**NO _x	VOC	CO
	7.6	7.6	0.6	100	5.5	84.0
Potential to Emit in tons/yr	0.02	0.02	1.8E-03	0.31	0.02	0.26

*PM and PM10 emission factors are condensable and filterable PM10 combined.

**Emission factors for NO_x Uncontrolled = 100 lbs/MMBtu.

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

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF/yr) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Potential to Emit (tons/yr) = Potential Throughput (MMCF/yr) x Emission Factor (lbs/MMCF) x 1 ton/2000 lbs