

217/782-2113

"REVISED"
TITLE V - CLEAN AIR ACT PERMIT PROGRAM (CAAPP) PERMIT
and
TITLE I PERMIT¹

PERMITTEE

Brookshore Lithographers, Inc.
Attn: Richard Moody
2075 Busse Road
Elk Grove Village, Illinois 60007-5720

<u>Application No.:</u> 95110041	<u>I.D. No.:</u> 031440AHU
<u>Applicant's Designation:</u> Operation of: Commercial Printing Plant	<u>Date Received:</u> November 14, 1995
<u>Date Issued:</u> January 27, 1999	<u>Expiration Date:</u> January 27, 2004
<u>Source Location:</u> 2075 Busse Road, Elk Grove Village	
<u>Responsible Official:</u> Stephen A. Burak, Vice President/General Manager	

This permit is hereby granted to the above-designated Permittee to operate a printing plant, pursuant to the above referenced permit application. This permit is subject to the conditions contained herein.

Revision Date Received: July 24, 2000
Revision Date Issued: September 1, 2000
Purpose of Revision: Administrative Amendment

This administrative amendment removes heatset web offset Presses PR2 and PR3 and Afterburner 7 from the permit. The presses have been removed from service and the afterburner will be shutdown. Because the changes in the permit were only administrative, no formal public notice was issued.

This document only contains those portions of the entire CAAPP permit that have been revised as a result of this permitting action. If a conflict exists between this document and previous versions of the CAAPP permit, this document supersedes those terms and conditions of the permit for which the conflict exists. The previous permit issued January 27, 1999 is incorporated herein by reference.

Please attach a copy of this amendment and the following revised pages to the front of the most recently issued entire permit.

If you have any questions concerning this permit, please contact David Hulskotter at 217/782-2113.

Donald E. Sutton, P.E.
Manager, Permit Section
Division of Air Pollution Control

DES:DWH:jar

cc: Illinois EPA, FOS, Region 1
EPA

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1.0 SOURCE IDENTIFICATION

1.1 Source

Banta Direct Marketing Group
2075 Busse Road
Elk Grove Village, Illinois 60007-5720
708/593-1200

I.D. No.: 031440AHU
Standard Industrial Classification: 2752, Commercial Printing,
Lithographic

1.2 Owner/Parent Company

Banta Corporation
P.O. Box 8003, 225 Main Street
Menasha, Wisconsin 54952

1.3 Operator

Banta Direct Marketing Group
2075 Busse Road
Elk Grove Village, Illinois 60007-5720

Richard Moody, Director of Engineering
847/593-1200

1.4 General Source Description

Banta Direct Marketing Group is located at 2075 Busse Road in Elk Grove Village. The source operates heatset web lithographic presses producing direct mail pieces. Air emissions from the dryers on each press pass through afterburners for controlling VOM emissions.

2.0 LIST OF ABBREVIATIONS/ACRONYMS

acfm	Actual cubic feet per minute
Act	Environmental Protection Act [415 ILCS 5/1 et seq.]
AP-42	Compilation of Air Pollutant Emission Factors, Volume 1, Stationary Point and Other Sources (and Supplements A through F), USEPA, Office of Air Quality Planning and Standards, Research Triangle Park, NC 27711
Btu	British thermal unit
CAA	Clean Air Act [42 U.S.C. Section 7401 et seq.]
CAAPP	Clean Air Act Permit Program
CFR	Code of Federal Regulations
CO	Carbon Monoxide
°C	degrees Celsius
°F	degrees Fahrenheit
ft ³	cubic foot
gal	gallon
HAP	Hazardous Air Pollutant
hr	hour
IAC	Illinois Administrative Code
I.D. No.	Identification Number of Source, assigned by Illinois EPA
Illinois EPA	Illinois Environmental Protection Agency
°K	degrees Kelvin
lb	pound
m	meter
mmBtu	Million British thermal units
mmHg	millimeters of mercury
MW	Megawatt
NO _x	Nitrogen Oxides
NSPS	New Source Performance Standards
NSR	New Source Review
OM	Organic Material
PM	Particulate Matter
PM ₁₀	Particulate matter with an aerodynamic diameter less than or equal to a nominal 10 microns as measured by applicable test or monitoring methods
ppmv	parts per million by volume
PSD	Prevention of Significant Deterioration
psia	pounds per square inch absolute
SIC	Standard Industrial Classification
SO ₂	Sulfur Dioxide
T	Ton
TOC	Total Organic Carbon
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compounds
VOL	Volatile Organic Liquid
VOM	Volatile Organic Material
yr	year

3.0 INSIGNIFICANT ACTIVITIES

3.1 Identification of Insignificant Activities

The following activities at the source constitute insignificant activities as specified in 35 IAC 201.210:

- 3.1.1 Activities determined by the Illinois EPA to be insignificant activities, pursuant to 35 IAC 201.210(a)(1) and 201.211, as follows:

Paper Scrap Handling Operations

- 3.1.2 Activities that are insignificant activities based upon maximum emissions, pursuant to 35 IAC 201.210(a)(2) or (a)(3), as follows:

None

- 3.1.3 Activities that are insignificant activities based upon their type or character, pursuant to 35 IAC 201.210(a)(4) through (18), as follows:

Natural gas fired fuel combustion units with a rated heat input capacity of less than 2.5 million Btu per hour per unit.

- 3.1.4 Activities that are considered insignificant activities pursuant to 35 IAC 201.210(b).

3.2 Addition of Insignificant Activities

- 3.2.1 The Permittee is not required to notify the Illinois EPA of additional insignificant activities present at the source of a type that is identified in Condition 3.1, until the renewal application for this permit is submitted, pursuant to 35 IAC 201.212(a).

- 3.2.2 The Permittee must notify the Illinois EPA of any proposed addition of a new insignificant activity of a type addressed by 35 IAC 201.210(a) and 201.211 other than those identified in Condition 3.1, pursuant to Section 39.5(12)(b) of the Act.

- 3.2.3 The Permittee is not required to notify the Illinois EPA of additional insignificant activities present at the source of a type identified in 35 IAC 201.210(b).

4.0 SIGNIFICANT EMISSION UNITS AT THIS SOURCE

Emission Unit	Description	Emission Control Equipment
PR4	Lithographic Printing Line 4	Afterburner 9
PR5	Lithographic Printing Line 5	Thermal Oxidizer
PR6	Lithographic Printing Line 6	Thermal Oxidizer
PR7	Lithographic Printing Line 7	Afterburner 9
PR8	Lithographic Printing Line 8	Afterburner 8
PR9	Lithographic Printing Line 9	Afterburner 9
BO-01	Boiler	None

5.0 OVERALL SOURCE CONDITIONS

5.1 Source Description

- 5.1.1 This permit is issued based on the source requiring a CAAPP permit as a major source of VOM emissions.
- 5.1.2 This permit is issued based on the source not being a major source of HAPs.

5.2 Applicable Regulations

- 5.2.1 Specific emission units at this source are subject to particular regulations as set forth in Section 7 (Unit-Specific Conditions) of this permit.
- 5.2.2 In addition, emission units at this source are subject to the following regulations of general applicability:
 - a. No person shall cause or allow the emission of fugitive particulate matter from any process, including any material handling or storage activity, that is visible by an observer looking generally overhead at a point beyond the property line of the source unless the wind speed is greater than 40.2 kilometers per hour (25 miles per hour), pursuant to 35 IAC 212.301 and 212.314.

Compliance with this requirement is considered to be assured by the inherent nature of operation at this source, as demonstrated by historical operation.

- b.
 - i. This source shall be operated under the provisions of an operating program prepared by the Permittee and submitted to the Illinois EPA for its review. Such operating program shall be designed to significantly reduce fugitive particulate matter emissions [35 IAC 212.309(a)].
 - ii. The operating program shall be amended from time to time by the owner or operator so that the operating program is current. Such amendments shall be consistent with the requirements set forth by Condition 5.2.2(b) and shall be submitted to the Illinois EPA pursuant to 35 IAC 212.312.
 - iii. All normal traffic pattern roads and parking facilities located at this source shall be paved or treated with water, oils, or chemical dust suppressants. All paved areas shall be cleaned on a regular basis. All areas treated with water, oils, or chemical dust

suppressants shall have the treatment applied on a regular basis, as needed, in accordance with the operating program.

- c. No person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to the requirements of 35 IAC 212.122, pursuant to 35 IAC 212.123(a), except as allowed by 35 IAC 212.123(b) and 212.124.
- d. No person shall cause or allow the emission of sulfur dioxide into the atmosphere from any process emission unit to exceed 2,000 ppm, pursuant to 35 IAC 214.301.

5.2.3 The Permittee shall comply with the standards for recycling and emissions reduction of ozone depleting substances pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners in Subpart B of 40 CFR Part 82:

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

5.3 Non-Applicability of Regulations of Concern

N/A

5.4 Source-Wide Operational and Production Limits and Work Practices

N/A

5.5 Source-Wide Emission Limitations

5.5.1 Permitted Emissions for Fees

The annual emissions from the source, not considering insignificant activities as addressed by Section 3.0 of this permit, shall not exceed the following limitations. The overall source emissions shall be determined by adding emissions from all emission units. Compliance with these limits shall be determined on a calendar year basis. These limitations (Condition 5.5.1) are set for the

purpose of establishing fees and are not federally enforceable.

Permitted Emissions of Regulated Pollutants

Pollutant	Tons/Year
Volatile Organic Material (VOM)	70.0
Sulfur Dioxide (SO ₂)	0.6
Particulate Matter (PM)	4.3
Nitrogen Oxides (NO _x)	34.3
HAP, not included in VOM or PM	----
TOTAL	109.2

5.5.2 Emissions of Hazardous Air Pollutants

This permit is issued based on the emissions of HAPs as listed in Section 112(b) of the Clean Air Act not being equal to or exceeding 10 tons per year of a single HAP or 25 tons per year of any combination of such HAPs, so that this source is considered a minor source for HAPs.

5.5.3 NSR Explanation

Lithographic presses 2 - 7 were all constructed prior to 1989 or in 1989 and their total VOM emissions are limited to 42.23 tons of VOM per year, which is an acceptable level of emissions. Lithographic Press 8 commenced construction in June 1992 and Press 9 was constructed in 1994 and their total VOM emissions are limited to 22.04 tons per year, which is below major levels.

5.6 General Recordkeeping Requirements

The annual HAP emissions shall be recorded in tons per year.

6.0 EMISSION REDUCTION MARKET SYSTEM (ERMS)

6.1 Description of ERMS

The ERMS is a "cap and trade" market system for major stationary sources located in the Chicago ozone nonattainment area. It is designed to reduce VOM emissions from stationary sources to contribute to further reasonable progress toward attainment, as required by Section 182(c) of the Clean Air Act.

The ERMS addresses VOM emissions during a seasonal allotment period from May 1 through September 30. Under the ERMS, participating sources must hold "allotment trading units" (ATUs) for their actual seasonal VOM emissions. Each year, starting with the 1999 ozone season, participating sources are issued ATUs based on allotments set during initial issuance of the sources' CAAPP permit. These allotments are established from historical VOM emissions or "baseline emissions" lowered to provide the emission reduction from stationary sources required for further progress.

By December 31 of each year, the end of the reconciliation period following the seasonal allotment period, each source should have sufficient ATUs in its account to cover its actual VOM emissions during the preceding season. An account's balance as of December 31 will include any valid ATU transfer agreements entered into as of December 31 of the given year, provided such agreements are promptly submitted to the Illinois EPA for entry into the account database. The Illinois EPA will then retire ATUs in sources' accounts in amounts equivalent to their seasonal emissions. When a source does not appear to have sufficient ATUs in its account, the Illinois EPA will issue a notice to the source to begin the process for Emissions Excursion Compensation.

In addition to receiving ATUs pursuant to their allotments, participating sources may also obtain ATUs from the market, including ATUs bought from other participating sources and general participants in the ERMS that hold ATUs (35 IAC 205.630) and ATUs issued by the Illinois EPA as a consequence of VOM emission reductions from an Emission Reduction Generator or an Intersector Transaction (35 IAC 205.500 and 205.510). During the reconciliation period, sources may also buy ATUs from a secondary reserve of ATUs managed by the Illinois EPA, the Alternative Compliance Market Account (35 IAC 205.710). A source may also transfer or sell the ATUs that it holds to other sources or participants (35 IAC 205.630).

This section becomes federally enforceable upon approval of the ERMS, 35 IAC Part 205.

6.2 Applicability

This source is considered a "participating source" for purposes of the ERMS, 35 IAC Part 205.

6.3 Obligation to Hold Allotment Trading Units (ATUs)

- a. Pursuant to 35 IAC 205.150(c)(1) and 205.720, as of December 31 of each year, this source shall hold ATUs in its account in an amount not less than its VOM emissions during the preceding seasonal allotment period (May 1 - September 30) not including VOM emissions from the following, or the source shall be subject to "emissions excursion compensation," as described in Condition 6.4.
 - i. VOM emissions from insignificant units and activities as identified in Section 3 of this permit, in accordance with 35 IAC 205.220;
 - ii. Excess VOM emissions associated with startup, malfunction or breakdown of an emission unit as authorized elsewhere in this permit, in accordance with 35 IAC 205.225;
 - iii. Excess VOM emissions to the extent allowed by a Variance, Consent Order, or Compliance Schedule, in accordance with 35 IAC 205.320(e)(3);
 - iv. Excess VOM emissions that are a consequence of an emergency as approved by the Illinois EPA, pursuant to 35 IAC 205.750; and
- b. Notwithstanding the above condition, in accordance with 35 IAC 205.150(c)(2), if a source commences operation of a major modification pursuant to 35 IAC Part 203, the source shall hold ATUs in an amount not less than 1.3 times its VOM emissions attributable to such major modification during the seasonal allotment period, determined in accordance with the construction permit for such major modification or applicable provisions in Section 7.0 of this permit.

6.4 Market Transaction

- a. The source shall apply to the Illinois EPA, and obtain a Transaction Account prior to conducting any market transactions, pursuant to 35 IAC 205.610.

6.5 Emission Excursion Compensation

Pursuant to 35 IAC 205.720, if the source fails to hold ATUs in accordance with Condition 6.3, it shall provide emissions excursion compensation to the Illinois EPA in accordance with the following:

- a. Upon receipt of an Excursion Compensation Notice issued by the Illinois EPA, the source shall purchase ATUs from the ACMA in the amount specified by notice, as follows:

- i. The purchase of ATUs shall be in an amount equivalent to 1.2 times the emissions excursion; or
 - ii. If the source had an emissions excursion for the seasonal allotment period immediately before the period for the present emission excursion, the source shall purchase ATUs in an amount equivalent to 1.5 times the emissions excursion.
- b. If requested in accordance with paragraph (c) below or in the event that the ACMA balance is not adequate to cover the total emissions excursion amount, the Illinois EPA will deduct ATUs equivalent to the specified amount or any remaining portion thereof from the ATUs to be issued to the source for the next seasonal allotment period.
- c. Pursuant to 35 IAC 205.720(c), within 15 days of receipt of an Excursion Compensation Notice, the owner or operator may request that ATUs equivalent to the amount specified be deducted from the source's next seasonal allotment by the Illinois EPA, rather than purchased from the ACMA.

6.6 Quantification of Seasonal VOM Emissions

- a. The methods and procedures specified in Section 5 and 7 of this permit for determining VOM emissions and compliance with VOM emission limitations shall be used for determining seasonal VOM emissions for purposes of the ERMS, with the following exceptions [35 IAC 205.315(b)]:

No exceptions

- b. The Permittee shall report emergency conditions at the source to the Illinois EPA in accordance with 35 IAC 205.650, if the Permittee intends to deduct VOM emissions in excess of the technology-based emission rates normally achieved that are attributable to the emergency from the source's seasonal VOM emissions for purposes of the ERMS. These reports shall include the information specified by 35 IAC 205.650(a), and shall be submitted in accordance with the following:
 - i. An initial emergency condition report within two days of the time when such excess emissions occurred due to the emergency; and
 - ii. A final emergency condition report, if needed to supplement the initial report, within 10 days after the conclusion of the emergency.

6.7 Annual Account Reporting

- a. For each year in which the source is operational, the Permittee shall submit, as a component of its Annual Emission Report, seasonal VOM emission information to the Illinois EPA for the seasonal allotment period. This report shall include the following information [35 IAC 205.300]:
 - i. Actual seasonal emissions of VOM from the source;
 - ii. A description of the methods and practices used to determine VOM emissions, as required by this permit, including any supporting documentation and calculations;
 - iii. A detailed description of any monitoring methods that differ from the methods specified in this permit, as provided in Section 205.337 of this Subpart;
 - iv. If a source has experienced an emergency, as provided in 35 IAC 205.650, the report shall reference the associated emergency conditions report that has been approved by the Agency;
 - v. If a source's baseline emissions have been adjusted due to a variance, consent order or CAAPP permit compliance schedule, as provided for in 35 IAC 205.320(e)(3), the report shall provide documentation quantifying the excess VOM emissions during the season that were allowed by the Variance, Consent Order, or Compliance Schedule, in accordance with 35 IAC 205.320(e)(3); and
 - vi. If a source is operating a new or modified emission unit for which three years of operational data are not yet available, as specified in 35 IAC 205.320(f), the report shall specify seasonal VOM emissions attributable to the new emission unit or the modification of the emission unit.
- b. This report shall be submitted by October 31 of each year, for the preceding seasonal allotment period.

6.8 Allotment of ATUs to the Source

- a.
 - i. The allotment of ATUs to this source, as it is a participating source, is 154 ATUs per seasonal allotment period.
 - ii. This allotment of ATUs reflects the Illinois EPA's determination that the source's baseline emissions were 17.49 tons.

- iii. The source's allotment reflects 88% of the baseline emissions (12% reduction) except for the VOM emissions from specific emission unit excluded from such reduction pursuant to 35 IAC 205.405 including units complying with MACT or using BAT, as identified in Section 7 of this permit.
- iv. ATUs will be issued to the source's Transaction Account by the Illinois EPA annually. These ATUs will be valid for the seasonal allotment period following issuance and, if not retired in this season, the next seasonal allotment period.
- v. Condition 6.3(a) becomes effective beginning in the seasonal allotment period following the initial issuance of ATUs by the Illinois EPA into the Transaction Account for the source.

b. Contingent Allotments

There are no contingent allotments for this source.

- c. Pursuant to 35 IAC Part 205, the Illinois EPA will issue ATUs to the source consistent with the above allotment of ATUs specified in Condition 6.8(a)(i), annually. These ATUs will be valid for the seasonal allotment period for which they are issued and, if not used for VOM emissions in this season, the following seasonal allotment period. Notwithstanding the above, part or all of the above allotment of ATUs will not be issued to the source in circumstances as set forth in 35 IAC Part 205, including:

- i. Transfer of ATUs from the allotment by the source to another participant or the ACMA, in accordance with 35 IAC 205.530;
- ii. Deduction of ATUs from the allotment as a consequence of emission excursion compensation, in accordance with 35 IAC 205.620; and
- iii. Transfer of ATUs from the allotment to the ACMA, as a consequence of shutdown of the source, in accordance with 35 IAC 205.410.

6.9 Recordkeeping for ERMS

The Permittee shall maintain copies of the following documents as its Compliance Master File for purposes of ERMS [35 IAC 205.600(a)]:

- a. Seasonal component of the Annual Emission Report;

- b. Information on actual VOM emissions, as specified in detail in Sections 5 and 7 of this permit and Condition 6.6(a);
- c. Any transfer agreements for the purchase or sale of ATUs and other documentation associated with the transfer of ATUs.

7.0 UNIT SPECIFIC CONDITIONS

7.1 Units PR2 - PR9: Heatset Web Offset Lithographic Printing Lines

7.1.1 Description

The source operates six heatset web offset lithographic printing lines. The VOM emissions are controlled by 4 afterburners. The printing lines are used to produce direct mail pieces. Natural gas fired press dryers set the ink. All of the afterburners have been tested and shown to achieve at least 90% destruction efficiency.

7.1.2 List of Emission Equipment and Pollution Control Equipment

Emission Unit	Description	Emission Control Equipment
PR4	Lithographic Printing Line 4	Afterburner 9
PR5	Lithographic Printing Line 5	Thermal Oxidizer
PR6	Lithographic Printing Line 6	Thermal Oxidizer
PR7	Lithographic Printing Line 7	Afterburner 9
PR8	Lithographic Printing Line 8	Afterburner 8
PR9	Lithographic Printing Line 9	Afterburner 9

7.1.3 Applicability Provisions and Applicable Regulations

- a. i. An affected printing line for the purpose of these unit specific conditions, is a printing line listed in Condition 7.1.2.
- ii. Each affected printing line is subject to the emission limits identified in Condition 5.2.2.
- b. The owner or operator of an affected printing line shall not operate an affected printing line unless the following conditions are complied with [35 IAC 218.407(a)(1)]:
 - i. The total VOM content in the as-applied fountain solution meets one of the following conditions:
 - A. 1.6 percent or less, by volume; or
 - B. 5 percent or less, by volume, and the as-applied fountain solution contains no alcohol.
 - ii. The air pressure in the dryers is maintained lower than the air pressure of the press room, such that air flow through all openings in the dryers other than the exhaust, is into the dryer at all times when the printing line is operating.

- iii. Afterburners are installed and operated so that VOM emissions (excluding methane and ethane) from the press dryers exhaust(s) are reduced by 90 percent, by weight, or to a maximum afterburner exhaust outlet concentration of 20 ppmv (as carbon).
- iv. The subject afterburners are operated at all times when the printing lines are in operation.
- c. The owner or operator shall only use cleaning solutions with affected printing lines that have a VOM composite partial vapor pressure less than 10 mmHg at 20°C (68°F) pursuant to 35 IAC 218.407(a)(4)(B).
- d. All VOM containing cleaning materials, including used cleaning towels, associated with any lithographic printing lines shall be kept, stored or disposed of in closed containers pursuant to 35 IAC 218.407(a)(5).

7.1.4 Non-Applicability of Regulations of Concern

N/A

7.1.5 Operational

- a. Natural gas shall be the only fuel fired in the affected printing lines.
- b. The afterburners combustion chambers shall be preheated to the manufacturer's recommended temperature but not lower than 1400°F, before the lithographic printing process is begun, and this temperature shall be maintained during operation of the affected lithographic printing lines.
- c. The Permittee shall follow good operating practices for the afterburners, including periodic inspections, routine maintenance and repair of defects.

7.1.6 Emission Limitations

- a. Volatile organic material (VOM) emissions and operation of equipment shall not exceed the following limits:

<u>Press 8</u>	<u>Usage</u> <u>(Per yr)</u>	<u>VOM</u> <u>Content</u>	<u>Volatile</u> <u>Organic Material</u> <u>Emissions</u> <u>(Ton/yr)</u>
Ink	725 tons	40%	9.28
Fountain Solution	1,314 gal	0.725 lb/gal*	0.48

Press 9

	<u>Usage</u> (Per yr)	<u>VOM</u> <u>Content</u>	<u>Volatile</u> <u>Organic Material</u> <u>Emissions</u> (Ton/yr)
Ink	375 tons	40%	4.80
Fountain Solution	1,314 gal	0.725 lb/gal*	0.48

* Permittee is also required to comply with permit Condition 7.1.3(b)(i).

Press 8 and 9

	<u>Usage</u> (Per yr)	<u>VOM</u> <u>Content</u>	<u>Volatile</u> <u>Organic Material</u> <u>Emissions</u> (Ton/yr)
Clean up	4,000 gal	100%	7.04
		Total	22.04 tons/yr

These limits are based on the following information provided in the permit application:

- The web retaining 20% of the ink solvents;
- The afterburner and capture system reducing 96% of the VOM emissions coming from the dryer exhaust;
- The ink usage is based on 290 lb/hour for Press 8 and 150 lb/hour for Press 9;
- The clean up solvent having a density of 7 lb/gal and using 0.5 gal/press-hour for Press 8 and 0.3 gal/press-hour for Press 9 for 5000 hours of press operation;
- The clean up solvent having a 50% reduction due to retention in the rags;

The above limitations were established in Construction Permit 94020097, pursuant to 35 IAC Part 203. These limits ensure that the construction and/or modification addressed in the aforementioned Construction Permit does not constitute a new major source or major modification pursuant to 35 IAC Part 203.

- b. Emissions of organic material from the two web presses 5 and 6 shall not exceed 14.76 tons/year. This limit is based on maximum emissions, thermal oxidizer control, material balance and VOM emissions resulting from ink, fountain solution and cleanup solution usage.

The above limitations were established in Construction Permit 97040103, pursuant to 35 IAC Part 203. These limits ensure that the construction and/or modification addressed in the aforementioned Construction Permit does not constitute a new major source or major modification pursuant to 35 IAC Part 203.

- c. Emissions and operation of equipment shall not exceed the following limits:

<u>Press Number</u>	<u>Maximum Ink Usage (lb/hr)</u>	<u>Maximum VOM Content (%)</u>	<u>Operating Hours (hr/yr)</u>	<u>Organic Material Emissions (lb/hr)(T/yr)</u>	
4	65.9	40	4,433	3.8	8.36
7	68.7	40	4,257	4.0	8.48

These limits are based on maximum operation and VOM emissions resulting from ink, fountain solution and cleanup solution usage. Compliance with annual limits shall be determined on a monthly basis from the sum of data for the current month plus the preceding 11 months (running 12 month total).

The above limitations were established in Construction Permit 89040029, pursuant to 35 IAC Part 203. These limits ensure that the construction and/or modification addressed in the aforementioned Construction Permit does not constitute a new major source or major modification pursuant to 35 IAC Part 203.

7.1.7 Testing Requirements

- a. Upon request from the Illinois EPA, pursuant to 35 IAC 218.409 the owner or operator shall conduct tests in accordance with procedures of 35 IAC 218.105(d) and (f) to measure the performance of the afterburner controlling the affected lithographic printing lines. All such tests shall be made by or under the direction of a person qualified by training and/or experience in the field of air pollution testing.
- b. Testing to demonstrate compliance with the VOM content limitations in 35 IAC 218.407(a)(1)(A), and to determine the VOM content of fountain solutions, fountain solution additives, cleaning solvents, cleaning solutions, and inks [pursuant to the requirements of 35 IAC 218.411(a)(1)(B)], shall be conducted upon request of the Illinois EPA, as follows [35 IAC 218.409(c)]:
 - i. The applicable test methods and procedures specified in 35 IAC 218.105(a) of this Part shall be used; provided, however, Method 24,

incorporated by reference at 35 IAC 218.122, shall be used to demonstrate compliance; or

- ii. The manufacturer's specifications for VOM content for fountain solution additives, cleaning solvents, and inks may be used if such manufacturer's specifications are based on results of tests of the VOM content conducted in accordance with methods specified in 35 IAC 218.105(a).
- c. Upon request from the Illinois EPA testing to determine the VOM composite partial vapor pressure of cleaning solvents, cleaning solvent concentrates, and as-used cleaning solutions shall be conducted [35 IAC 218.409(e)]. These tests shall be in accordance with the applicable methods and procedures specified in 35 IAC 218.110.
- d.
 - i. Before July 3, 2000, the VOM emissions of the Presses 5 and 6 controlled by the thermal oxidizer shall be measured during conditions which are representative of maximum emissions.
 - ii. The test shall be designed to measure the destruction efficiency across the thermal oxidizer.
 - iii. This test shall be conducted during circumstances which are representative of maximum emissions, and equipment data and material usage during the test shall be recorded.
- e. The following methods and procedures shall be used for testing of emissions, unless another method is approved by the Illinois EPA.
 - i. Refer to 40 CFR 60, Appendix A and 40 CFR 61, Appendix B for USEPA test methods.

Location of Sample Points	USEPA Method 1
Gas Flow and Velocity	USEPA Method 2
Flue Gas Weight	USEPA Method 3
Moisture	USEPA Method 4
Volatile Organic Material	USEPA Method 25, 25A if outlet VOM cont. <50 ppmv as C Non CH ₄
 - ii. The Permittee shall modify the inlet of the thermal oxidizer in order to take required traverse points in accordance with applicable USEPA methods.

- iii. Smoke stick test should be conducted as required by 35 IAC 218.409(b)(6).
- f. At least 30 days prior to the actual date of testing a written test plan shall be submitted to the Illinois EPA for review. This plan shall describe the specific procedures for testing, including as a minimum:
- i. The person(s) who will be performing sampling and analysis and their experience with similar tests.
 - ii. The specific conditions under which testing will be performed, including a discussion of why these conditions will be representative of maximum emissions and the means by which the operating parameters for the source and any control equipment will be determined.
 - iii. The specific determinations of emissions and operation which are intended to be made, including sampling and monitoring locations.
 - iv. The test method(s) which will be used, with the specific analysis method.
 - v. Any minor changes in standard methodology proposed to accommodate the specific circumstances of testing, with justification.
 - vi. Any proposed use of an alternative test method, with detailed justification.
 - vii. The format and content of the Source Test Report.
- g. Copies of the Final Report(s) for these tests shall be submitted to the Illinois EPA within 14 days after the test results are compiled and finalized. The Final Report shall include as a minimum:
- i. A summary of results.
 - ii. General information.
 - iii. Description of test method(s), including description of sampling points, sampling train, analysis equipment, and test schedule.
 - iv. Detailed description of test conditions, including:

- A. Process information, i.e., mode(s) of operation, process rate, e.g. fuel or raw material consumption;
 - B. Control equipment information, i.e., equipment condition and operating parameters during testing; and
 - C. A discussion of any preparatory actions taken, i.e., inspections, maintenance and repair.
- v. Data and calculations, including copies of all raw data sheets and records of laboratory analyses, sample calculations, and data on equipment calibration.
 - vi. An explanation of any discrepancies among individual tests or anomalous data.
- h. Two (2) copies of required reports and notifications concerning equipment operation or repairs, performance testing or a continuous monitoring system shall be sent to:

Illinois Environmental Protection Agency
 Division of Air Pollution Control
 Compliance Section (#40)
 1340 North Ninth Street
 P.O. Box 19276
 Springfield, Illinois 62794-9276

and one (1) copy shall be sent to the Illinois EPA's regional office at the following address unless otherwise indicated:

Illinois Environmental Protection Agency
 Division of Air Pollution Control
 Eisenhower Tower
 1701 South First Avenue
 Maywood, Illinois 60153

7.1.8 Monitoring Requirements

- a. i. Each afterburner shall be equipped with a continuous temperature indicator and strip chart recorder or disk storage to monitor the afterburner combustion chamber temperature [35 IAC 218.407(a)(1)(D)].
- ii. The temperature monitoring devices shall have accuracies of 3°C or 5°F and the continuous recorders shall have at least the same accuracy as the temperature monitors [35 IAC 218.410(c)].

b. Fountain Solution Monitoring Requirements

The following monitoring requirements shall be performed according to 35 IAC 218.410 for the fountain solution. The Permittee shall comply with one of the three options:

- i. Maintain records of the VOM content of the fountain solution in accordance with 35 IAC 218.411(c)(2)(C) [Condition 7.1.9(b)(ii) of this permit]; or
- ii. Take a sample of the as-applied fountain solution from the fountain tray or reservoir, as applicable, each time a fresh batch of fountain solution is prepared or each time VOM is added to an existing batch of fountain solution in the fountain tray or reservoir, and determine compliance with the VOM content limitation of the as-applied fountain solution by using one of the following methods:
 - A. With a refractometer or hydrometer with a visual, analog, or digital readout and with an accuracy of 0.5 percent. The refractometer or hydrometer must be calibrated with a standard solution for the type of VOM used in the fountain solution, in accordance with manufacturer's specifications, against measurements performed to determine compliance. The refractometer or hydrometer must be corrected for temperature at least once per 8-hour shift or once per batch of fountain solution prepared or modified, whichever is longer; or
 - B. With a conductivity meter if it is demonstrated that a refractometer and hydrometer cannot distinguish between compliant and noncompliant fountain solution for the type and amount of VOM in the fountain solution. A source may use a conductivity meter if it demonstrates that both hydrometers and refractometers fail to provide significantly different measurements for standard solutions containing 95 percent, 100 percent and 105 percent of the applicable VOM content limit. The conductivity meter reading for the fountain solution must be referenced to the conductivity of the incoming water.

A standard solution shall be used to calibrate the conductivity meter for the type of VOM used in the fountain solution, in accordance with manufacturer's specifications.

- C. For fountain solutions to which VOM is added at the source with automatic feed equipment, determine the VOM content of the as-applied fountain solution based on the setting of the automatic feed equipment which makes additions to VOM up to a pre-set level. The equipment used to make automatic additions must be installed, calibrated, operated and maintained in accordance with manufacturer's specifications.

7.1.9 Recordkeeping Requirements

- a. The owner or operator shall collect and record daily the following information for each affected printing line [35 IAC 218.411(b)(3)]:
 - i. Afterburner monitoring data;
 - ii. A log of operating time for the afterburner, monitoring equipment, and the associated printing line;
 - iii. A maintenance log for the afterburner and monitoring equipment detailing all routine and non-routine maintenance performed, including dates and duration of any outages; and
 - iv. A log detailing checks on the air flow direction or air pressure of the dryer and press room to insure compliance with the requirements of 35 IAC 218.407(a)(1)(B) [Condition 7.1.3(b)(ii)] at least once per 24-hour period while the line is operating.
- b. Fountain Solution Recordkeeping Requirements
 - i. The owner or operator shall collect and record the name and identification of each batch of fountain solution prepared for use in one or more lithographic printing lines, the lithographic printing line(s) or centralized reservoir using such batch of fountain solution, and the applicable VOM content limitation for the batch [35 IAC 218.411(c)(2)(A)].

- ii. The following is required for a fountain solution to which VOM is not added automatically:
 - A. For each batch of as-applied fountain solution, the following information shall be collected and recorded [35 IAC 218.411(c)(2)(C)]:
 - 1. Date and time of preparation and each subsequent modification of the batch;
 - 2. Volume and VOM content of each component used in, or subsequently added to, the fountain solution batch;
 - 3. Calculated VOM content in terms of volume percent of the as-applied fountain solution; and
 - 4. Any other information necessary to demonstrate compliance with the applicable VOM content limits.
 - B. As an alternative to (A), the owner or operator collect and record the following when a hydrometer, refractometer or conductivity meter is used to comply with the monitoring requirements [35 IAC 218.411(c)(2)(B)].
 - 1. The date and time of preparation of each batch of fountain solution, and each subsequent modification, of the batch;
 - 2. The results of each measurement taken in accordance with 35 IAC 218.410(b)(1)(B) [Condition 7.1.8(b)(ii)]. Measurements are required to be taken each time a fresh batch of fountain solution is prepared or each time VOM is added to an existing batch of fountain solution;
 - 3. Documentation of the periodic calibration of the meter in accordance with the manufacturer's specifications, including date and time of calibration, personnel conducting, identity of standard solution, and resultant reading; and

4. Documentation of the periodic temperature adjustment of the meter, including date and time of adjustment, personnel conducting and results.

c. Cleaning Solution Recordkeeping Requirements

- i. For each batch of cleaning solution used with an affected printing line, the Permittee shall collect and record the following information [35 IAC 218.411(d)(2)(C)]:

- A. The name and identification of each cleaning solution;
- B. Date and time of preparation, and each subsequent modification, of the batch;
- C. The molecular weight, density, and VOM composite partial vapor pressure of each cleaning solvent;
- D. The total amount of each cleaning solvent used to prepare the as-used cleaning solution; and
- E. The VOM composite partial vapor pressure of each as-used cleaning solution in mmHg at 20°C (68°F).

- ii. The Permittee shall record the date, time and duration of scheduled inspections performed to confirm the proper use of closed containers to control VOM emissions, and any instances of improper use of closed containers, with descriptions of actual practice and corrective action taken, if any [35 IAC 218.411(d)(2)(D)].

d. The Permittee shall collect and record the following information for the affected printing lines:

- i. Monthly usage of ink, coating, fountain solution and any other VOM containing materials for each printing line in pounds or gallons.
- ii. The VOM content of each ink, coating, fountain solution, cleaning solution and any other VOM containing materials used with basis, e.g., supplier data sheet or laboratory analysis report.

- iii. Most recent stack test reports.
- iv. VOM emissions calculated in accordance with the procedures given in Condition 7.1.12 (ton/month).
- v. HAP emissions (tons/year).

7.1.10 Reporting Requirements

a. Report of Deviations

If there is an exceedance of the requirements of this permit as determined by the records required by this permit, the Permittee shall submit a report to the Illinois EPA's Compliance Section in Springfield, Illinois within 30 days after the exceedance. The report shall include the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, and a description of the exceedance or violation and efforts to reduce emissions and future occurrences [Section 39.5(7)(f)(ii) of the Act].

b. Report for Changing Method of Compliance

If the Permittee changes the method of demonstrating compliance with the applicable VOM content limitations in 35 IAC 218.407 or changes the method of demonstrating compliance with the VOM content limitations for fountain solutions or cleaning solutions, the Permittee shall certify compliance for such new methods in accordance with the requirements of the certification reports of Condition 9.8 within 30 days after making such change, and perform all tests and calculations necessary to demonstrate that such printing line(s) will be in compliance with the applicable requirements of 35 IAC 218.407 and the requirements of this permit [35 IAC 218.411(c)(4) and (d)(4)].

7.1.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.1.12 Compliance Procedures

- a. Compliance with emission limits shall be determined using the emission factors and formulas listed below:
 - i. The owner or operator may presume 20% retention of ink VOM in the web for affected

printing lines, as stated in 35 IAC
218.411(a)(1)(B)(iii).

- ii. The owner or operator may presume 70% capture of the fountain solution VOM by the afterburner systems for affected printing lines as stated in USEPA's Alternative Control Techniques Document Offset Lithographic Printing (EPA 453/R-94-054, June 1994).
- iii. For manual cleaning solution used on affected printing lines a 50% emission factor of the cleaning solution used may be presumed as stated in USEPA's Alternative Control Techniques Document Offset Lithographic Printing (EPA 453/R-94054, June 1994).
- iv. $\text{VOM Emissions from Ink Usage} = \text{Ink VOM Usage} \times 0.8 \times (1 - \text{Destruction Efficiency})$.
- v. $\text{VOM Emissions from Fountain Solution Usage} = \text{Fountain Solution VOM Usage} \times [1 - (.7)(\text{Destruction Efficiency})]$.
- vi. $\text{VOM Emissions from Manual Cleaning Solution} = \text{Manual VOM Cleaning Solution Usage} \times 0.5$.

7.2 Unit B0-01: Boiler

7.2.1 Description

A Cleaver-Brooks hot water boiler provides heat for the plant area. The boiler is fired by natural gas and is rated at 4.0 million Btu per hour. It is used only during the heating season.

7.2.2 List of Emission Units and Pollution Control Equipment

Emission Unit	Description	Emission Control Equipment
BO-01	Boiler	None

7.2.3 Applicable Regulations

- a. An affected boiler for the purpose of these unit specific conditions is boiler listed in Condition 7.2.2.
- b. An affected boiler is subject to the opacity limits identified in Condition 5.2.2(c).

7.2.4 Non-Applicability of Regulations of Concern

- a. The affected boiler is not subject to 35 IAC 217.141, emissions of NO_x from existing fuel combustion emission units in major metropolitan areas, because the actual heat input of the affected boiler is less than 73.2 MW (250 mmBtu/hr).
- b. The boiler is not subject to 35 IAC 216.121, emissions of CO from existing fuel combustion emission units, because the actual heat input of each affected boiler is less than 2.9 MW (10 mmBtu/hr).
- c. Pursuant to 35 IAC 218.303, fuel combustion emission units are not subject to 35 IAC 218.301, Use of Organic Material.

7.2.5 Operational and Production Limits and Work Practices

The affected boiler shall only be operated with natural gas as the fuel.

7.2.6 Emission Limitations

In addition to Condition 5.2.2 and the source wide limitations in Condition 5.5.1, the affected boilers are subject to the following:

None

7.2.7 Testing Requirements

None

7.2.8 Monitoring Requirements

None

7.2.9 Recordkeeping Requirements

The Permittee shall maintain records of the following items to demonstrate compliance with Condition 5.5.1, pursuant to Section 39.5(7)(b) of the Act:

- a. Total natural gas usage for the affected boiler (ft³/year); and
- b. Annual aggregate NO_x, PM, SO₂, and VOM emissions from the affected boiler, based on fuel consumption and the applicable emission factors.

7.2.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Compliance Section of noncompliance with applicable requirements as follows pursuant to Section 39.5(7)(f)(ii) of the Act:

- a. Notification within 60 days of operation of an affected boiler that may not have been in compliance with the opacity limitations in Condition 5.2.2(b), with a copy of such record for each incident.
- b. Emissions of NO_x, PM, SO₂, or VOM from the affected boiler in excess of the limits specified in Condition 5.5.1 based on the current month's records plus the preceding 11 months within 30 days of such an occurrence.

7.2.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.2.12 Compliance Procedures

- a. Compliance with the emission limits in Conditions 5.5.1 shall be based on the recordkeeping requirements in Condition 7.2.9 and the emission factors and formulas listed below:
 - i. Emissions from the affected boilers burning natural gas shall be calculated based on the following emission factors:

<u>Pollutant</u>	<u>Emission Factor</u> <u>(lb/10⁶ ft³)</u>
PM	7.5
NO _x	100
SO ₂	0.6
VOM	5.3

These are the emission factors for uncontrolled natural gas combustion in small industrial boilers (0.3 - < 10 mmBtu/hr), Tables 1.4-1, 1.4-2, and 1.4-3, AP-42, Volume I, Supplement F, October, 1996. VOM emission factor based on Total Organic Carbon (TOC) factor corrected for 52% methane.

Boiler Emissions (lb) = natural gas consumed multiplied by the appropriate emission factor.

8.0 GENERAL PERMIT CONDITIONS

8.1 Permit Shield

Pursuant to Section 39.5(7)(j) of the Act, the Permittee has requested and has been granted a permit shield. This permit shield provides that compliance with the conditions of this permit shall be deemed compliance with applicable requirements as of the date the proposed permit for this source was issued. This shield is granted based on the Illinois EPA's review of the permit application for this source and its determination that all applicable requirements are specifically identified in this permit. If the Illinois EPA, in acting on this permit application, has determined that other requirements specifically identified are not applicable to the source, the Illinois EPA's written determination (or a concise summary thereof) is included in this permit.

This permit shield does not extend to applicable requirements which are promulgated after August 1, 1998 (the date of issuance of the draft permit) unless this permit has been modified to reflect such new requirements.

8.2 Applicability of Title IV Requirements (Acid Deposition Control)

This source is not an affected source under Title IV of the CAA and is not subject to requirements pursuant to Title IV of the CAA.

8.3 Emissions Trading Programs

No permit revision shall be required for increases in emissions allowed under any USEPA approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for elsewhere in this permit and that are authorized by the applicable requirement [Section 39.5(7)(o)(vii) of the Act].

8.4 Operational Flexibility/Anticipated Operating Scenarios

8.4.1 Changes Specifically Addressed by Permit

Physical or operational changes specifically addressed by the Conditions of this permit that have been identified as not requiring Illinois EPA notification may be implemented without prior notice to the Illinois EPA.

8.4.2 Changes Requiring Prior Notification

The Permittee is authorized to make physical or operational changes without applying for or obtaining an amendment to this permit, provided that the changes do not constitute a modification under Title I of the CAA, emissions will not exceed the emissions allowed under this

permit following implementation of the physical or operational change and the Permittee provides written notice to the Illinois EPA, Division of Air Pollution Control, Permit Section, at least 7 days before commencement of the change [Section 39.5(12)(a) of the Act]. This notice shall:

- a. Describe the physical or operational change;
- b. Identify the schedule for implementing the physical or operational change;
- c. Provide a statement of whether or not any New Source Performance Standard (NSPS) is applicable to the physical or operational change and the reason why the NSPS does or does not apply;
- d. Provide emission calculations which demonstrate that the physical or operational change will not result in a modification; and
- e. Provide a certification that the physical or operational change will not result in emissions greater than authorized under the Conditions of this permit.

8.5 Testing Procedures

Tests conducted to measure composition of materials, efficiency of pollution control devices, emissions from process or control equipment, or other parameters shall be conducted using standard test methods. Documentation of the test date, conditions, methodologies, calculations, and test results shall be retained pursuant to the recordkeeping procedures of this permit. Reports of any tests conducted as required by this permit or as the result of a request by the Illinois EPA shall be submitted as specified in Condition 8.6.

8.6 Reporting Requirements

8.6.1 Monitoring Reports

A report summarizing required monitoring as specified in the conditions of this permit shall be submitted to the Air Compliance Section of the Illinois EPA every six months as follows [Section 39.5(7)(f) of the Act]:

<u>Monitoring Period</u>	<u>Report Due Date</u>
January - June	September 1
July - December	March 1

All instances of deviations from permit requirements must be clearly identified in such reports. All such reports shall be certified in accordance with Condition 9.9.

8.6.2 Test Notifications

Unless otherwise specified elsewhere in this permit, a written test plan for any test required by this permit shall be submitted to the Illinois EPA for review at least 60 days prior to the testing pursuant to Section 39.5(7)(a) of the Act. The notification shall include at a minimum:

- a. The name and identification of the affected unit(s);
- b. The person(s) who will be performing sampling and analysis and their experience with similar tests;
- c. The specific conditions under which testing will be performed, including a discussion of why these conditions will be representative of maximum emissions and the means by which the operating parameters for the source and any control equipment will be determined;
- d. The specific determination of emissions and operation which are intended to be made, including sampling and monitoring locations;
- e. The test method(s) which will be used, with the specific analysis method, if the method can be used with different analysis methods;
- f. Any minor changes in standard methodology proposed to accommodate the specific circumstances of testing, with justification; and
- g. Any proposed use of an alternative test method, with detailed justification.

8.6.3 Test Reports

Unless otherwise specified elsewhere in this permit, the results of any test required by this permit shall be submitted to the Illinois EPA within 60 days of completion of the testing. The test report shall include at a minimum [Section 39.5(7)(e)(i) of the Act]:

- a. The name and identification of the affected unit(s);
- b. The date and time of the sampling or measurements;
- c. The date any analyses were performed;

- d. The name of the company that performed the tests and/or analyses;
- e. The test and analytical methodologies used;
- f. The results of the tests including raw data, and/or analyses including sample calculations;
- g. The operating conditions at the time of the sampling or measurements; and
- h. The name of any relevant observers present including the testing company's representatives, any Illinois EPA or USEPA representatives, and the representatives of the source.

8.6.4 Reporting Addresses

- a. The following addresses should be utilized for the submittal of reports, notifications, and renewals:
 - i. Illinois EPA - Air Compliance Section
 Illinois Environmental Protection Agency (MC 40)
 Bureau of Air
 Compliance Section
 P.O. Box 19276
 Springfield, Illinois 62794-9276
 - ii. Illinois EPA - Air Regional Field Office
 Illinois Environmental Protection Agency
 Division of Air Pollution Control
 Eisenhower Tower
 1701 South First Avenue
 Maywood, Illinois 60153
 - iii. Illinois EPA - Air Permit Section (MC 11)
 Illinois Environmental Protection Agency
 Division of Air Pollution Control
 Permit Section
 P.O. Box 19506
 Springfield, Illinois 62794-9506
 - iv. USEPA Region 5 - Air Branch
 USEPA (AR - 17J)
 Air & Radiation Division
 77 West Jackson Boulevard
 Chicago, Illinois 60604
- b. Unless otherwise specified in the particular provision of this permit, reports shall be sent to the Illinois EPA - Air Compliance Section with a copy sent to the Illinois EPA - Air Regional Field Office.

9.0 STANDARD PERMIT CONDITIONS

9.1 Effect of Permit

9.1.1 The issuance of this permit does not release the Permittee from compliance with State and Federal regulations which are part of the Illinois State Implementation Plan, as well as with other applicable statutes and regulations of the United States or the State of Illinois or applicable ordinances, except as specifically stated in this permit and as allowed by law and rule [Section 39.5(7)(j)(iv) of the Act].

9.1.2 In particular, this permit does not alter or affect the following:

- a. The provisions of Section 303 (emergency powers) of the CAA, including USEPA's authority under that Section;
- b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
- c. The applicable requirements of the acid rain program consistent with Section 408(a) of the CAA; and
- d. The ability of USEPA to obtain information from a source pursuant to Section 114 (inspections, monitoring, and entry) of the CAA.

9.1.3 Notwithstanding the conditions of this permit specifying compliance practices for applicable requirements, any person (including the Permittee) may also use other credible evidence to establish compliance or noncompliance with applicable requirements.

9.2 General Obligations of Permittee

9.2.1 Duty to Comply

The Permittee must comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the CAA and the Act, and is grounds for any or all of the following: enforcement action, permit termination, revocation and reissuance, modification, or denial of a permit renewal application [Section 39.5(7)(o)(i) of the Act].

The Permittee shall meet applicable requirements that become effective during the permit term in a timely manner unless an alternate schedule for compliance with the applicable requirement is established.

9.2.2 Duty to Maintain Equipment

The Permittee shall maintain all equipment covered under this permit in such a manner that the performance or operation of such equipment shall not cause a violation of applicable requirements.

9.2.3 Duty to Cease Operation

No person shall cause, threaten or allow the continued operation of any emission unit during malfunction or breakdown of the emission unit or related air pollution control equipment if such operation would cause a violation of an applicable emission standard, regulatory requirement, ambient air quality standard or permit limitation unless such malfunction or breakdown is allowed by a permit condition [Section 39.5(6)(c) of the Act].

9.2.4 Disposal Operations

The source shall be operated in such a manner that the disposal of air contaminants collected by the equipment operations, or activities shall not cause a violation of the Act or regulations promulgated thereunder.

9.2.5 Duty to Pay Fees

The Permittee must pay fees to the Illinois EPA consistent with the fee schedule approved pursuant to Section 39.5(18) of the Act, and submit any information relevant thereto [Section 39.5(7)(o)(vi) of the Act]. The check should be payable to "Treasurer, State of Illinois" and sent to: Fiscal Services Section, Illinois Environmental Protection Agency, P.O. Box 19276, Springfield, Illinois 62794-9276.

9.3 Obligation to Allow Illinois EPA Surveillance

Upon presentation of proper credentials and other documents, the Permittee shall allow the Illinois EPA, or an authorized representative to perform the following [Section 39.5(7)(p)(ii) of the Act]:

- a. Enter upon the Permittee's premises where an actual or potential emission unit is located; where any regulated equipment, operation, or activity is located or where records must be kept under the conditions of this permit;
- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- c. Inspect during hours of operation any sources, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

- d. Sample or monitor any substances or parameters at any location:
 - i. At reasonable times, for the purposes of assuring permit compliance; or
 - ii. As otherwise authorized by the CAA, or the Act.
- e. Obtain and remove samples of any discharge or emission of pollutants; and
- f. Enter and utilize any photographic, recording, testing, monitoring, or other equipment for the purposes of preserving, testing, monitoring, or recording any activity, discharge or emission at the source.

9.4 Obligation to Comply With Other Requirements

The issuance of this permit does not release the Permittee from applicable State and Federal laws and regulations, and applicable local ordinances addressing subjects other than air pollution control.

9.5 Liability

9.5.1 Title

This permit shall not be considered as in any manner affecting the title of the premises upon which the permitted source is located.

9.5.2 Liability of Permittee

This permit does not release the Permittee from any liability for damage to person or property caused by or resulting from the construction, maintenance, or operation of the sources.

9.5.3 Structural Stability

This permit does not take into consideration or attest to the structural stability of any unit or part of the source.

9.5.4 Illinois EPA Liability

This permit in no manner implies or suggests that the Illinois EPA (or its officers, agents or employees) assumes any liability, directly or indirectly, for any loss due to damage, installation, maintenance, or operation of the source.

9.5.5 Property Rights

This permit does not convey any property rights of any sort, or any exclusive privilege [Section 39.5(7)(o)(iv) of the Act].

9.6 Recordkeeping

9.6.1 Control Equipment Maintenance Records

A maintenance record shall be kept on the premises for each item of air pollution control equipment. As a minimum, this record shall show the dates of performance and nature of preventative maintenance activities.

9.6.2 Records of Changes in Operation

A record shall be kept describing changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under this permit, and the emissions resulting from those changes [Section 39.5(12)(b)(iv) of the Act].

9.6.3 Retention of Records

- a. Records of all monitoring data and support information shall be retained for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records, original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit [Section 39.5(7)(e)(ii) of the Act].
- b. Other records required by this permit shall be retained for a period of at least 5 years from the date of entry unless a longer period is specified by a particular permit provision.

9.7 Annual Emissions Report

The Permittee shall submit an annual emissions report to the Illinois EPA, Compliance Section no later than May 1 of the following year, as required by 35 IAC Part 254.

9.8 Requirements for Compliance Certification

Pursuant to Section 39.5(7)(p)(v) of the Act, the Permittee shall submit compliance certifications annually or more frequently as specified in the applicable requirement or by permit condition.

- a. The certifications shall include descriptions of means to monitor the compliance of the source including emissions limitations, standards, and work practices in accordance with applicable requirements and permit conditions. The

certification shall include the identification of each term or condition of this permit that is the basis of the certification; the compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source, both currently and over the reporting period consistent with the conditions of this permit.

- b. All compliance certifications shall be submitted to USEPA Region 5 in Chicago as well as to the Illinois EPA.
- c. All compliance reports required to be submitted shall include a certification in accordance with Condition 9.9.

9.9 Certification

Any document (including reports) required to be submitted by this permit shall contain a certification by a responsible official of the Permittee that meets the requirements of Section 39.5(5) of the Act [Section 39.5(7)(p)(i) of the Act]. An example Certification by a Responsible Official is included as an attachment to this permit.

9.10 Defense to Enforcement Actions

9.10.1 Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit [Section 39.5(7)(o)(ii) of the Act].

9.10.2 Emergency Provision

a. An emergency shall be an affirmative defense to an action brought for noncompliance with the technology-based emission limitations under this permit if the following conditions are met through properly signed, contemporaneous operating logs, or other relevant evidence:

- i. An emergency occurred as provided in Section 39.5(7)(k) of the Act and the Permittee can identify the cause(s) of the emergency. Normally, an act of God such as lightning or flood is considered an emergency;
- ii. The permitted source was at the time being properly operated;
- iii. The Permittee submitted notice of the emergency to the Illinois EPA within two working days of the time when emission

limitations were exceeded due to the emergency. This notice must contain a detailed description of the emergency, any steps taken to mitigate emissions, and corrective actions taken; and

- iv. During the period of the emergency the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission limitations, standards, or regulations in this permit.
- b. This provision is in addition to any emergency or upset provision contained in any applicable requirement. This provision does not relieve a Permittee of any reporting obligations under existing federal or state laws or regulations.

9.11 Permanent Shutdown

This permit only covers emission units and control equipment while physically present at the indicated source location(s). Unless this permit specifically provides for equipment relocation, this permit is void for the operation or activity of any item of equipment on the date it is removed from the permitted location(s) or permanently shut down. This permit expires if all equipment is removed from the permitted location(s), notwithstanding the expiration date specified on this permit.

9.12 Reopening and Reissuing Permit for Cause

9.12.1 Permit Actions

This permit may be modified, reopened, and reissued, for cause pursuant to Section 39.5(15) of the Act. The filing of a request by the Permittee for a permit modification, revocation, and reissuance, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition [Section 39.5(7)(o)(iii) of the Act].

9.12.2 Reopening and Revision

This permit must be reopened and revised if any of the following occur [Section 39.5(15)(a) of the Act]:

- a. Additional requirements become applicable to the equipment covered by this permit and three or more years remain before expiration of this permit;
- b. Additional requirements become applicable to an affected source for acid deposition under the acid rain program;
- c. The Illinois EPA or USEPA determines that this permit contains a material mistake or inaccurate statement

when establishing the emission standards or limitations, or other terms or conditions of this permit; and

- d. The Illinois EPA or USEPA determines that this permit must be revised to ensure compliance with the applicable requirements of the Act.

9.12.3 Inaccurate Application

The Illinois EPA has issued this permit based upon the information submitted by the Permittee in the permit application. Any misinformation, false statement or misrepresentation in the application shall be grounds for revocation under Section 39.5(15)(b) of the Act.

9.12.4 Duty to Provide Information

The Permittee shall furnish to the Illinois EPA, within a reasonable time specified by the Illinois EPA any information that the Illinois EPA may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the Permittee shall also furnish to the Illinois EPA copies of records required to be kept by this permit, or for information claimed to be confidential, the Permittee may furnish such records directly to USEPA along with a claim of confidentiality [Section 39.5(7)(o)(v) of the Act].

9.13 Severability Clause

The provisions of this permit are severable, and should any one or more be determined to be illegal or unenforceable, the validity of the other provisions shall not be affected. The rights and obligations of the Permittee shall be construed and enforced as if this permit did not contain the particular provisions held to be invalid and the applicable requirements underlying these provisions shall remain in force [Section 39.5(7)(i) of the Act].

9.14 Permit Expiration and Renewal

The right to operate terminates on the expiration date unless the Permittee has submitted a timely and complete renewal application. For a renewal to be timely it must be submitted no later than 9 and no sooner than 12 months prior to expiration. The equipment may continue to operate during the renewal period until final action is taken by the Illinois EPA, in accordance with the original permit conditions [Section 39.5(5)(l), (n), and (o) of the Act].

10.0 ATTACHMENTS

10.1 Attachment 1 - Example Certification by a Responsible Official

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: _____

Name: _____

Official Title: _____

Telephone No.: _____

Date Signed: _____

DWH:jar