

- b. These limits are based on maximum ink manufacturing production, standard emission factors, and VOM content of ink produced. Compliance with annual limit shall be determined from the current month plus the preceding 11 months.
- 3. This permit is issued based on the ink manufacturing operations not being subject to the requirements of Subpart AA of the 35 Ill. Adm. Code Part 218. This is a consequence of the voluntary limits placed on production contained in this federally enforceable permit.
- 4a. Emissions and operation of the six gas-fired heaters shall not exceed the following limits:

| <u>Material</u> | <u>(mmscf/Mo)</u> | <u>(mmscf/Yr)</u> | <u>Pollutant</u> | <u>Emission Factor (Lb/mmscf)</u> | <u>Emissions (T/Mo)</u> | <u>(T/Yr)</u> |
|-----------------|-------------------|-------------------|------------------|-----------------------------------|-------------------------|---------------|
| Natural Gas | 0.6 | 6.0 | NO _x | 100 | 0.1 | 0.3 |
| | | | CO | 84 | 0.1 | 0.25 |
| | | | VOM | 5.5 | 0.1 | 0.1 |

These limits define the potential emissions of NO_x, CO and VOM and are based on maximum fuel usage and standard emission factors. Compliance with annual limits shall be determined from a running total of 12 months of data.

- b. Natural gas shall be the only fuel used in the heaters. Use of any other fuel other than natural gas requires a permit revision.
- 5. This permit is issued based on negligible emissions of particulate matter from the ink manufacturing operation. For this purpose, emissions shall not exceed nominal emission rates of 0.1 lb/hour and 0.1 ton/year.
- 6. The emissions of Hazardous Air Pollutants (HAPs) as listed in Section 112(b) of the Clean Air Act shall not equal or exceed 10 tons per year of any single HAP or 25 tons per year of any combination of such HAPs, or such lesser quantity as USEPA may establish in rule which would require the Permittee to obtain a CAAPP permit from the Agency. As a result of this condition, this permit is issued based on the emissions of any HAP from this source not triggering the requirement to obtain a CAAPP permit from the Agency.
- 7. The Permittee shall maintain monthly records of the following items:
 - a. Ink production for each sheetfed, heatset and other including UV inks (lb/month and lb/year);
 - b. VOM content (% weight) for each ink produced;
 - c. Clean-up solvent used (lbs/month and lbs/year);

- d. Natural gas usage (mmscf/month and mmscf/year); and
 - e. Detailed calculations of VOM emissions (tons/month and tons/year).
8. All records and logs required by this permit shall be retained at a readily accessible location at the source for at least three years from the date of entry and shall be made available for inspection and copying by the Agency and USEPA upon request. Any records retained in an electronic format (e.g., computer) shall be capable of being retrieved and printed on paper during normal source office hours so as to be able to respond to an Agency request for records during the course of a source inspection.
9. 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 Agency's Compliance Unit 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.
10. 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)
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
9511 West Harrison
Des Plaines, Illinois 60016
11. The Permittee shall submit the following additional information with the Annual Emissions Report, due May 1st of each year: Ink production from the previous calendar year. If there have been no exceedances during the prior calendar year, the Annual Emission Report shall include a statement to that effect.

It should be noted that the two parts washer has been removed from the permit and is no longer in operation.

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If you have any questions on this permit, please call Tara T. Nguyen-Ede at 217/782-2113.

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

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cc: IEPA, FOS Region 1
IEPA, Compliance Unit
Lotus Notes

Attachment A - Emission Summary

This attachment provides a summary of the maximum emissions from ink production plant operating in compliance with the requirements of this federally enforceable permit. In preparing this summary, the Agency used the annual operating scenario which results in maximum emissions from such a plant. This is a result of the limitation on the ink production. The resulting maximum emissions are well below the levels, e.g., 25 tons per year of VOM at which this source would be considered a major source for purposes of the Clean Air Act Permit Program. Actual emissions from this source will be less than predicted in this summary to the extent that less material is handled and control measures are more effective than required in this permit.

1a. Ink Production:

| | <u>Production (Lbs/Mo)</u> | <u>Production (Lbs/Yr)</u> | <u>Emission Factor</u> | <u>VOM Content (% Weight)</u> | <u>VOM Emissions (T/Mo)</u> | <u>VOM Emissions (T/Yr)</u> |
|---|--------------------------------|--------------------------------|----------------------------|-----------------------------------|---------------------------------|---------------------------------|
| Sheetfed Ink | 347,000 | 3,470,000 | 1.5% | 30 | 0.78 | 7.81 |
| Heatset Ink | 325,000 | 3,250,000 | 1.5% | 50 | 1.22 | 12.19 |
| Other Ink (Including UV Ink) | 80,400 | 804,000 | 1.5% | 35 | 0.21 | 2.11 |
| Cleaning Solvent | 600 | 6,000 | 50% | 100 | 0.15 | 1.50 |
| Misc. (Lab Solvent, Cleaning Solution) | 120 | 1,200 | 100% | 100 | <u>0.06</u> | <u>0.60</u> |
| | | | | <u>Total</u> | <u>2.42</u> | <u>24.21</u> |

b. These limits are based on maximum ink manufacturing production, standard emission factors, and VOM content of ink produced. Compliance with annual limit shall be determined from the current month plus the preceding 11 months.

2a. Emissions and operation of the six gas-fired heaters shall not exceed the following limits:

| <u>Material</u> | <u>(mmscf/Mo)</u> | <u>(mmscf/Yr)</u> | <u>Pollutant</u> | <u>Emission Factor (Lb/mmscf)</u> | <u>Emissions (T/Mo)</u> | <u>Emissions (T/Yr)</u> |
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These limits define the potential emissions of NO_x, CO and VOM and are based on maximum fuel usage and standard emission factors. Compliance with annual limits shall be determined from a running total of 12 months of data.

b. Natural gas shall be the only fuel used in the heaters. Use of any other fuel other than natural gas requires a permit revision.

3. This permit is issued based on negligible emissions of particulate matter from the ink manufacturing operation. For this purpose, emissions shall not exceed nominal emission rates of 0.1 lb/hour and 0.1 ton/year.

4. The emissions of Hazardous Air Pollutants (HAP) as listed in Section 112(b) of the Clean Air Act shall be less than 10 tons/year of any single HAP and 25 tons/year of any combination of such HAPs. As a result of this condition, this permit is issued based on the emissions of all HAPs from this source not triggering the requirements to obtain a Clean Air Act Permit Program Permit (CAAPP), and Section 112(G) of the Clean Air Act.

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