



Missouri Department of Natural Resources  
Air Pollution Control Program

## INTERMEDIATE STATE PERMIT TO OPERATE

Under the authority of RSMo 643 and the Federal Clean Air Act the applicant is authorized to operate the air contaminant source(s) described below, in accordance with the laws, rules, and conditions set forth here in.

**Intermediate Operating Permit Number:** QP2010-040  
**Expiration Date:** MAY 02 2015  
**Installation ID:** 047-0032  
**Project Number:** 2006-06-107

**Installation Name and Address**

Henry Wurst, Inc.  
1331 Saline Street  
North Kansas City, MO 64116  
Clay County

**Parent Company's Name and Address**

Henry Wurst, Inc.  
1331 Saline Street  
North Kansas City, MO 64116

**Installation Description:**

Henry Wurst, Inc. is a printed products manufacturer operating both web and sheetfed equipment. The facility is a synthetic minor source of Volatile Organic Compounds (VOCs) and Hazardous Air Pollutants (HAPs) and is part of the Kansas City ozone nonattainment area.

MAY 03 2010

Effective Date

*Kyra Z Moore*

Director or Designee  
Department of Natural Resources

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## I. Installation Description and Equipment Listing

### INSTALLATION DESCRIPTION

Henry Wurst, Inc. is a printed products manufacturer operating both web and sheetfed equipment. The facility is a synthetic minor source of Volatile Organic Compounds (VOCs) and Hazardous Air Pollutants (HAPs) and is part of the Kansas City ozone nonattainment area.

Reported Air Pollutant Emissions, tons per year						
Year	Particulate Matter ≤ Ten Microns (PM <sub>10</sub> )	Sulfur Oxides (SO <sub>x</sub> )	Nitrogen Oxides (NO <sub>x</sub> )	Volatile Organic Compounds (VOC)	Carbon Monoxide (CO)	Hazardous Air Pollutants (HAPs)
2008	0.01	0.002	1.99	26.28	0.07	0.89
2007	0.009	0.002	1.78	20.31	0.06	1.13
2006	0.02	0.004	2.12	19.31	0.12	1.10
2005	-	-	1.38	17.56	-	1.25
2004	-	-	1.12	20.39	-	1.71

### EMISSION UNITS WITH LIMITATIONS

The following list provides a description of the equipment at this installation which emits air pollutants and identified as having unit-specific emission limitations.

Emission Unit #	Description of Emission Unit
EP03	4 Unit Hantscho Printing Press – PR8
EP04	4 Unit ASI Press Dryer - PR8
EP05	5 Unit Harris Printing Press - PR9
EP06	5 Unit TEC Press Dryer - PR9
EP07	Parts Cleaning
EP08	East Hot Water Boiler – North Building
EP09	Steam Boiler – South Building
EP10	West Hot Water Boiler – North Building
EP11	Regenerative Thermal Oxidizer (CD1)
EP12	Toxics Emitted By Facility
EP13	8 Unit Harris Printing Press - PR1
EP14	8 Unit TEC Press Dryer - PR1
EP15	Sheetfed Press (5 Color)
EP17	6 Unit Sheetfed Press (CW)
EP20	Heidelberg and Planete Sheetfed Presses
EP21	6 Unit Komori Sheetfed Press
EU01	Paper Baler and Shredders

### EMISSION UNITS WITHOUT LIMITATIONS

The following list provides a description of the equipment, which does not have unit specific limitations at the time of permit issuance.

None.

## II. Plant Wide Emission Limitations

The installation shall comply with each of the following emission limitations. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect on the date of permit issuance.

### PERMIT CONDITION PW001

10 CSR 10-6.065(2)(C) and 10 CSR 10-6.065(5)(A) Voluntary Limitation(s)

#### **Emission Limitation:**

The permittee shall not cause or allow the emission of volatile organic compounds (VOC) in excess of 100 tons in any consecutive 12 month period.

#### **Monitoring/Record Keeping:**

1. The permittee shall maintain an accurate record of monthly throughput for all VOC emission units.
2. The monthly emissions of volatile organic compounds for each emission unit shall be calculated, using the monthly throughput and emission factor. Attachment E or an equivalent form generated by the permittee may be used.
3. The permittee shall calculate their annual emission of volatile organic compounds by summing the monthly emissions of each emission unit for the last twelve months. The annual emission will be calculated each month using the most recent twelve months worth of monthly emission totals.
4. The permittee shall maintain accurate Material Safety Data Sheets (MSDS) for all VOC emitting materials used at the installation.
5. All records shall be kept for no less than five years and be made available immediately to any Missouri Department of Natural Resources' personnel upon request.

#### **Reporting:**

1. If at any time the yearly emission limit of 100 tons should be exceeded or a malfunction occur which could possibly cause exceedance the permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after the exceedance.
2. The permittee shall report any deviations from the emission limitation, monitoring/recordkeeping, and reporting requirements of this permit condition in the annual monitoring report and compliance certification required by Section V of this permit.

### PERMIT CONDITION PW002

10 CSR 10-6.065(2)(C) and 10 CSR 10-6.065(5)(A) Voluntary Limitation(s)

#### **Emission Limitations:**

1. The permittee shall emit less than ten (10) tons individually of any Hazardous Air Pollutants (HAPs) from the installation in any consecutive 12-month period.
2. The permittee shall emit less than twenty-five (25) tons combined of Hazardous Air Pollutants (HAPs) from the installation in any consecutive 12-month period.

**Monitoring/Record Keeping:**

1. The permittee shall record the amount of each HAP emitting material used each month.
2. The permittee shall calculate the monthly and rolling 12-month HAP emissions for each individual HAP and for total combined HAPs using Attachments F & G or equivalent forms generated by the permittee.
3. The permittee shall maintain a complete set of Material Safety Data Sheets (MSDS) for all material used at the installation.
4. All records shall be kept for no less than five years and be made available immediately to any Missouri Department of Natural Resources' personnel upon request.

**Reporting:**

1. If at any time the yearly emission limits of 10 tons individual or 25 tons combined should be exceeded or a malfunction occur which could possibly cause exceedance the permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after the exceedance.
2. The permittee shall report any deviations from the emission limitations, monitoring/recordkeeping, and reporting requirements of this permit condition in the annual monitoring report and compliance certification required by Section V of this permit.

**PERMIT CONDITION PW003**

10 CSR 10-6.060 Construction Permits Required  
Construction Permit No. 052007-010, Issued May 25, 2007

**Operational Limitation:**

Special Condition 1: Henry Wurst, Inc. shall keep the ink solvents and cleaning solutions in sealed containers whenever the materials are not in use. Henry Wurst, Inc. shall provide and maintain suitable, easily read, permanent markings on all inks, solvent and cleaning solution containers used with this equipment.

**Reporting:**

The permittee shall report any deviations from the operational limitation and reporting requirements of this permit condition in the annual monitoring report and compliance certification required by Section V of this permit.

### III. Emission Unit Specific Emission Limitations

The installation shall comply with each of the following emission limitations. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect on the date of permit issuance.

<b>PERMIT CONDITION 001</b>	
10 CSR 10-6.060 Construction Permits Required Construction Permit 112001-004, Issued September 20, 2001	
Emission Unit	Description
EP07	Parts Cleaning
EP20	Heidelberg Sheetfed Presses

**Emission Limitation:**

Special Condition 1.A: The permittee shall not discharge into the atmosphere from the installation's three (3) Heidelberg multicolor lithographic presses EP20 permitted herein including the cleanup of these presses EP07 the following pollutants in excess of the listed amounts in any consecutive 12-month period:

Pollutant	Emission Limitation (ton per year)
<b>Hazardous Air Pollutants (HAPs)</b>	
Cobalt Compounds	0.1
Manganese Compounds	0.8
Cresol Compounds	1.0
Glycol Ether Compounds	5.0
Toluene	10.0
Combined HAP	25.0
<b>Volatile Organic Compounds (VOC)</b>	
VOC	40.0

Note: The permittee shall not use ink, alcohol replacement solution, fountain solution, press cleaner, or type cleaner containing HAPs other than those specifically listed in this permit until a permit application is submitted to and approved by the Missouri Department of Natural Resources' Air Pollution Control Program.

**Operational Limitation:**

Special Condition 2: All ink, alcohol replacement solutions, fountain solutions, press cleaners and type cleaners that emit VOC and HAPs shall be kept in tightly sealed containers during transport and storage. Cleaning cloths used with the cleanup solutions must be placed in tightly closed containers when not in use and while awaiting off-site transportation.

**Recordkeeping:**

Special Condition 1.B: Permittee shall maintain an accurate record of VOC and HAPs emitted into the atmosphere from the installation's printing presses permitted herein. Permittee shall record the monthly and rolling 12-month totals of VOC and individual and combined HAP emissions from the installation. Permittee shall use Attachments E, F, and G or equivalent form(s) for this purpose. Permittee shall maintain all records required by this permit, on-site, for the 60 most recent months, and shall immediately make such records available to any Missouri Department of Natural Resources' personnel upon request. These records shall include Material Safety Data Sheets (MSDS) for all materials associated with the printing presses for which records are kept.

**Reporting:**

1. Special Condition 1.C: The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after the end of the month during which the records indicate that the source exceeded the emission limitations.
2. The permittee shall report any deviations from the operational limitation and reporting requirements of this permit condition in the annual monitoring report and compliance certification required by Section V of this permit.

<b>PERMIT CONDITION 002</b>	
10 CSR 10-6.060 Construction Permits Required Construction Permit 0890-010, Issued August 27, 1990	
Emission Unit	Description
EU01	Paper Baler and Shredders

**Operational Limitation:**

Special Condition 1: No more than 5,000 tons of paper may be shredded at this facility in any consecutive 12-month period.

**Monitoring/Recordkeeping:**

Special Condition 2: Records shall be kept on-site for a period of at least five years of the tons of paper shredded, with both the monthly and the rolling 12 month total calculated using Attachment G or an equivalent form generated by the permittee. These records shall be made available immediately for inspection to Department of Natural Resources' personnel upon request.

**Reporting:**

1. The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after the end of the month during which the records indicate that the source exceeded the emission limitations.
2. The permittee shall report any deviations from the operational limitation, monitoring/recordkeeping, and reporting requirements of this permit condition in the annual monitoring report and compliance certification required by Section V of this permit.

<b>PERMIT CONDITION 003</b>	
10 CSR 10-6.060 Construction Permits Required Construction Permit 1092-007, Issued October 19, 1992	
Emission Unit	Description
EP07	Parts Cleaning
EP11	Regenerative Thermal Oxidizer (CD1)
EP13	8 Unit Harris Printing Press - PR1

**Emission Limitations:**

1. Special Condition 1: The permittee shall not emit volatile organic compounds (VOC) into the atmosphere from EP13 8 Unit Harris Printing Press – PR-1 in excess of 60 tons in any consecutive 12-month period.
2. Special Condition 2: The permittee shall not emit volatile organic compounds (VOC) into the atmosphere from EP07 Parts Cleaning in excess of 20 tons in any consecutive 12-month period.

**Operational Limitation:**

Special Condition 4: The control efficiency of EP11 Regenerative Thermal Oxidizer (CD1) shall be at least 85%. The efficiency must be verified by emission testing as required by 10 CSR 10-2.340.

**Monitoring/Recordkeeping:**

1. Special Condition 3: The permittee shall maintain an accurate record of monthly throughput for emission units EP07 and EP13. The monthly emissions of volatile organic compounds for each emission unit shall be calculated, using the monthly throughput and emission factor. Attachment E or an equivalent form generated by the permittee may be used. The permittee shall calculate their annual emission of volatile organic compounds by summing the monthly emissions of each emission unit for the last twelve months. The annual emissions for each unit shall be calculated each month using the most recent twelve months worth of monthly emission totals. All records shall be kept for no less than five years and be made available immediately to any Missouri Department of Natural Resources' personnel upon request.
2. The permittee shall maintain accurate Material Safety Data Sheets (MSDS) for all VOC emitting materials used with these emission units.

**Reporting:**

1. The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after the end of the month during which the records indicate that the source exceeded the emission limitations.
2. The permittee shall report any deviations from the operational limitation, monitoring/recordkeeping, and reporting requirements of this permit condition in the annual monitoring report and compliance certification required by Section V of this permit.

**PERMIT CONDITION 004**

10 CSR 10-2.040 Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment  
Used for Indirect Heating

Emission Unit	Description	Manufacturer	MHDR (MMBtu/hr)	Fuel	Stack No.
EP08	East Hot Water Boiler – North Building	Ajax	2.25	Natural Gas	ST4
EP09	Steam Boiler – South Building	Kewanee	3.35	Natural Gas	ST5
EP10	West Hot Water Boiler – North Building	Ajax	2.74	Natural Gas	ST6

**Emission Limitation:**

The permittee shall not emit particulate matter in excess of 0.36 pounds per million BTU of heat input from the indirect heating sources: EP08 East Hot Water Boiler – North Building, EP09 Steam Boiler – South Boiler, and EP10 West Hot Water Boiler – North Building.

**Operational Limitation:**

The permittee shall calibrate, maintain, and operate the emission units according to the manufacturer’s specifications and recommendations.

**Monitoring/Recordkeeping:**

1. Maintain a maintenance log noting all inspections, malfunctions, and repairs using Attachment D or an equivalent form generated by the permittee.
2. Records may be kept in either written or electronic form.
3. These records shall be made available immediately for inspection to the Department of Natural Resources’ personnel upon request.
4. All records must be maintained for five (5) years.
5. Attachment I contains calculations which demonstrate that the emission units will never exceed the emission limitation while burning natural gas.

**Reporting:**

1. The permittee shall report to the Air Pollution Control Program’s Enforcement Section, P.O. Box 176, Jefferson City, MO 65101, no later than ten (10) days after any exceedance of any of the terms imposed by this regulation, or any malfunction which could possibly cause an exceedance of this regulation.
2. The permittee shall report any deviations from the emission limitation, operational limitation, monitoring/recordkeeping, and reporting requirements of this permit condition in the annual monitoring report and compliance certification required by Section V of this permit.

**PERMIT CONDITION 005**

10 CSR 10-2.210 Control of Emissions From Solvent Metal Cleaning

Emission Unit	Description
EP07	Parts Cleaning

**Emission Limitation:**

1. The permittee shall not operate or allow the operation of any cold cleaner using a cold cleaning solvent with a vapor pressure greater than 1.0 mmHg (0.019 psi) at 20°C (68°F).
2. Exceptions:
  - a) Cold cleaners using aqueous solvents shall be exempt from the requirements listed above.
  - b) Cold cleaners with a liquid surface area of one square foot or less or a maximum capacity of one gallon or less shall be exempt from the requirements listed above.
  - c) The permittee may use an alternative method for reducing cold cleaning emissions if the level of emission control is equivalent to or greater than the requirements listed above. The Director must approve the alternative method.

**Operational Limitations/Equipment Specifications:**

1. Each cold cleaner shall have a cover which will prevent the escape of solvent vapors from the solvent bath while in the closed position, or an enclosed reservoir which limits the escape of solvent vapors from the solvent bath whenever parts are not being processed in the cleaner.
2. When one or more of the following conditions exist, the design of the cover shall be such that it can be easily operated with one hand such that minimal disturbing of the solvent vapors in the tank occurs. (For covers larger than ten square feet, this shall be accomplished by either mechanical assistance such as spring loading or counter weighing or by power systems):
  - a) The solvent vapor pressure is greater than 0.3 psi measure at 100°F, such as in mineral spirits;
  - b) The solvent is agitated; or
  - c) The solvent is heated.
3. Each cold cleaner shall have a drainage facility, which will be internal so that parts are enclosed under the cover while draining.
4. If an internal drainage facility cannot fit into the cleaning system and the solvent vapor pressure is less than 0.6 psi measured at 100°F, then the cold cleaner shall have an external drainage facility which provides for the solvent to drain back into the solvent bath.
5. Solvent sprays, if used, shall be a solid fluid stream (not a fine, atomized or shower-type spray) and at a pressure which does not cause splashing above or beyond the freeboard.
6. A permanent conspicuous label summarizing the operating procedures shall be affixed to the equipment.
7. Any cold cleaner which uses a solvent that has a solvent vapor pressure greater than 0.6 psi measured at 100°F, or is heated above 120°F, must use one of the following control devices:
  - a) A freeboard ratio of at least 0.75;
  - b) Water cover (solvent must be insoluble in and heavier than water); or
  - c) Other control systems with a mass balance demonstrated overall VOC emissions reduction efficiency greater than or equal to 65%. These control systems must receive approval from the Director prior to their use.
8. Each cold cleaner shall be operated as follows:
  - a) Cold cleaner covers shall be closed whenever parts are not being handled in the cleaners or the solvent must drain into an enclosed reservoir.
  - b) Clean parts shall be drained in the freeboard area for at least 15 seconds or until dripping ceases, whichever is longer.
  - c) Whenever a cold cleaner fails to perform within the operating parameters established for it by this permit condition, the unit shall be shut down immediately and shall remain shut down until

trained service personnel are able to restore operation within the established operating procedures.

- d) Solvent leaks shall be repaired immediately or the cleaner shall be shut down and leaks secured until the leaks are repaired.
  - e) Any waste material removed from a cold cleaner shall be disposed of by one of the following methods in accordance with the Missouri Hazardous Waste Management Commission Rules codified as 10 CSR 25, as applicable:
    - i) Reduction of the waste material to less than 20% VOC solvent by distillation and proper disposal of the still bottom waste: or
    - ii) Stored in closed containers for transfer to a contract reclamation service or disposal facility approved by the Director.
  - f) Waste solvent shall be stored in covered containers only.
9. Operators must be trained as follows:
- a) Only persons trained in at least the operational and equipment requirements specified in 10 CSR 10-2.210 for their particular solvent metal cleaning process shall be permitted to operate this equipment;
  - b) The supervisor of any person who operates a solvent metal cleaning process shall receive equivalent or greater operational training than the operators; and
  - c) Refresher training shall be given to all solvent metal cleaning equipment operators at least once every 12-month period.

**Monitoring:**

The permittee shall monitor the throughputs of the solvents monthly and maintain material safety data sheets of the cleanup solvents used at the installation.

**Record Keeping:**

1. The permittee shall record the throughputs of the solvents monthly and maintain material safety data sheets of the cleanup solvents used at the installation.
2. The permittee shall keep training records of solvent metal cleaning for each employee on an annual basis using Attachment J or an equivalent form generated by the permittee.
3. The permittee shall maintain the following records for each purchase of cold cleaner solvent, using Attachment K or an equivalent form generated by the permittee:
  - a) Name and address of the solvent supplier;
  - b) Date of purchase;
  - c) Type of solvent purchased; and
  - d) Vapor pressure of solvent in mmHg at 20°C (68°F).
4. The permittee shall keep monthly inventory records of solvent consumed. The permittee shall record all types and amounts of solvent containing waste material transferred to either a contract reclamation service or to a disposal installation and all amounts distilled on the premises using Attachment L or an equivalent form generated by the permittee. The permittee shall record maintenance and repair logs for the cold cleaner using Attachment D or an equivalent form generated by the permittee.
5. All records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.
6. All records shall be maintained for five years.

**Reporting:**

The permittee shall report any deviations from the emission limitation, operational limitations/equipment specifications, monitoring, recordkeeping, and reporting requirements of this permit condition in the annual monitoring report and compliance certification required by Section V of this permit.

<b>PERMIT CONDITION 006</b>	
10 CSR 10-2.340 Control of Emissions From Lithographic Printing Installations	
<b>Emission Unit</b>	<b>Description</b>
EP03	4 Unit Hantscho Printing Press – PR8
EP04	4 Unit ASI Press Dryer - PR8
EP05	5 Unit Harris Printing Press - PR9
EP06	5 Unit TEC Press Dryer - PR9
EP07	Parts Cleaning
EP11	Regenerative Thermal Oxidizer (CD1)
EP13	8 Unit Harris Printing Press - PR1
EP14	8 Unit TEC Press Dryer - PR1
EP20	Heidelberg Sheetfed Presses
EP21	6 Unit Komori Sheetfed Press

**Operational Limitations/Monitoring:**

1. No owner or operator shall use or permit the use of any offset lithographic printing press unless –
  - a) The fountain solution contains ten percent (10%) or less by weight of alcohol; [10 CSR 10-2.340(3)(A)(1)]
  - b) The fountain solution is refrigerated to a temperature of fifty-five degrees Fahrenheit (55°F) or less for alcohol-based solutions;
  - c) The fountain solution temperature at the mixing tank for alcohol-based solutions is monitored during each shift; and
  - d) The fountain solution mixing tanks are covered for alcohol-based solutions.
2. No owner or operator shall use or permit the use of any offset lithographic printing press that uses cleanup solvents containing VOCs unless –
  - a) The cleanup solvents are kept in tightly covered tanks or containers during transport and storage; [10 CSR 10-2.340(3)(B)(1)]
  - b) The cleaning cloths used with the cleanup solvents are placed in tightly closed containers when not in use and while awaiting off-site transportation. The cleaning cloths should be properly cleaned and disposed of. The cloths, when properly cleaned or disposed of, are processed in a way that as much of the solvent, as practicable, is recovered for further use or destroyed. Cleaning and disposal methods shall be approved by the Director; and [10 CSR 10-2.340(3)(B)(2)]
  - c) An owner or operator may use an alternate method for reducing cleanup solvent VOC emissions, including the use of low VOC cleanup solvents, if the owner or operator shows the emission reduction is equal to or greater than those in 10 CSR 10-2.340(3)(B)(1) and (2). This alternate method must be approved by the Director.

3. No owner or operator shall use or permit the use of any heatset web-offset lithographic printing press that uses a dryer that has ever had an actual emission rate of ten (10) tons per year or more VOCs, unless one hundred percent (100%) of the dryer exhaust is ducted to a control device that achieves eighty-five percent (85%) by weight or greater control efficiency. [10 CSR 10-2.340(3)(C)]
4. Use of emission control equipment shall require that continuous monitors be installed, calibrated, operated and maintained. The monitors continuously shall measure –
  - a) The exhaust gas temperature of all VOC destruction devices and the gas temperature immediately upstream and downstream of any catalytic bed with an accuracy of plus or minus 0.75% measured in degrees Celsius, or 2.5 degrees Celsius;
  - b) The cumulative amount of VOC recovered during a calendar month for all VOC recovery equipment attached to a dryer with an accuracy of plus or minus two percent ( $\pm 2\%$ ); and
  - c) Any other parameters considered necessary by the Director to verify proper operation of emission control equipment.

**Test Methods:**

1. Testing and compliance demonstrations for subsection (3)(C) of this rule shall follow the procedures contained in Environmental Protection Agency Reference Methods 25 or 25A found in 40 CFR Part 60, Appendix A.
2. Testing and compliance demonstrations for paragraph (3)(A)1. of this rule shall be based on the results from a calibrated hydrometer or refractometer.

**Recordkeeping/Reporting:**

1. All persons subject to this regulation shall maintain records as required by this section sufficient to determine continuous compliance with this regulation. These records shall be kept for at least five (5) years. These records shall be available immediately upon request for review by Department of Natural Resources' personnel and other air pollution control agencies with proper authority.
2. All persons required to duct dryer exhaust to a control device shall maintain records for each control device sufficient to demonstrate that the control efficiency of 85% is being maintained.
3. For each regulated printing press, records shall be maintained to show –
  - a) Quantity of alcohol added to the fountain solution of each regulated press in pounds each month;
  - b) Percent of alcohol in fountain solution by weight as monitored on a once per shift basis;
  - c) Results of any testing conducted on an emission unit at a regulated installation;
  - d) Maintenance records of any air pollution control equipment; and
  - e) The temperature of alcohol-based fountain solution as recorded on a once per shift basis.
4. For each lithographic installation subject to this regulation, records shall be maintained to show –
  - a) Properties of heatset inks as applied (determined by the manufacturer's formulation data), density of inks in pounds per gallon, and total VOC content in weight percent;
  - b) Quantity of heatset inks as applied to substrate in pounds on a monthly basis;
  - c) Quantity of cleanup solvents used on a monthly basis; and
  - d) Quantity of coating used on a monthly basis and percent VOC in coating by weight on a formulation basis.
5. The Director may require other records as reasonable and necessary to carry out the provisions of the Missouri Air Conservation Law.
6. All persons subject to the provisions of this regulation shall provide to the Director for approval a demonstration of final compliance with subsection (3)(A)—
  - a) Upon startup of presses which are not in existence and operating on December 9, 1991.

7. All persons subject to the provisions of this regulation shall provide to the Director for approval a demonstration of final compliance with subsections (3)(B) and (C) of this rule—
  - a) Upon startup of presses which are not in existence and operating on December 9, 1991.
8. The permittee shall report any deviations from the operational limitations/monitoring, test methods, and recordkeeping/reporting requirements of this permit condition in the annual monitoring report and compliance certification required by Section V of this permit.

## IV. Core Permit Requirements

The installation shall comply with each of the following requirements. Consult the appropriate sections in the Code of Federal Regulations (CFR), Code of State Regulations (CSR), and local ordinances for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect on the date of permit issuance.

### **10 CSR 10-6.045 Open Burning Requirements**

- (1) General Provisions. The open burning of tires, petroleum-based products, asbestos containing materials, and trade waste is prohibited, except as allowed below. Nothing in this rule may be construed as to allow open burning which causes or constitutes a public health hazard, nuisance, a hazard to vehicular or air traffic, nor which violates any other rule or statute.
- (2) Refer to the regulation for a complete list of allowances. The following is a listing of exceptions to the allowances:
  - (A) Burning of household or domestic refuse. Burning of household or domestic refuse is limited to open burning on a residential premises having not more than four dwelling units, provided that the refuse originates on the same premises, with the following exceptions:
    1. Kansas City metropolitan area. The open burning of household refuse must take place in an area zoned for agricultural purposes and outside that portion of the metropolitan area surrounded by the corporate limits of Kansas City and every contiguous municipality;
    2. Springfield-Greene County area. The open burning of household refuse must take place outside the corporate limits of Springfield and only within areas zoned A-1, Agricultural District;
    3. St. Joseph area. The open burning of household refuse must take place within an area zoned for agricultural purposes and outside that portion of the metropolitan area surrounded by the corporate limits of St. Joseph; and
    4. St. Louis metropolitan area. The open burning of household refuse is prohibited;
  - (B) Yard waste, with the following exceptions:
    1. Kansas City metropolitan area. The open burning of trees, tree leaves, brush or any other type of vegetation shall require an open burning permit;
    2. Springfield-Greene County area. The City of Springfield requires an open burning permit for the open burning of trees, brush or any other type of vegetation. The City of Springfield prohibits the open burning of tree leaves;
    3. St. Joseph area. Within the corporate limits of St. Joseph, the open burning of trees, tree leaves, brush or any other type of vegetation grown on a residential property is allowed during the following calendar periods and time-of-day restrictions:
      - A. A three (3)-week period within the period commencing the first day of March through April 30 and continuing for twenty-one (21) consecutive calendar days;
      - B. A three (3)-week period within the period commencing the first day of October through November 30 and continuing for twenty-one (21) consecutive calendar days;
      - C. The burning shall take place only between the daytime hours of 10:00 a.m. and 3:30 p.m.; and
      - D. In each instance, the twenty-one (21)-day burning period shall be determined by the Director of Public Health and Welfare of the City of St. Joseph for the region in which the City of St. Joseph is located provided, however, the burning period first shall receive the approval of the Department Director; and

4. St. Louis metropolitan area. The open burning of trees, tree leaves, brush or any other type of vegetation is limited to the period beginning September 16 and ending April 14 of each calendar year and limited to a total base area not to exceed sixteen (16) square feet. Any open burning shall be conducted only between the hours of 10:00 a.m. and 4:00 p.m. and is limited to areas outside of incorporated municipalities;
- (3) Certain types of materials may be open burned provided an open burning permit is obtained from the Director. The permit will specify the conditions and provisions of all open burning. The permit may be revoked if the owner or operator fails to comply with the conditions or any provisions of the permit.
- (4) The installation may be issued an annually renewable open burning permit for open burning provided that an air curtain destructor or incinerator is utilized and only tree trunks, tree limbs, vegetation or untreated wood waste are burned. Open burning shall occur at least two hundred (200) yards from the nearest occupied structure unless the owner or operator of the occupied structure provides a written waiver of this requirement. Any waiver shall accompany the open burning permit application. The permit may be revoked if the installation fails to comply with the provisions or any condition of the open burning permit.
  - (A) In a nonattainment area, as defined in 10 CSR 10-6.020, paragraph (2)(N)5., the Director shall not issue a permit under this section unless the owner or operator can demonstrate to the satisfaction of the Director that the emissions from the open burning of the specified material would be less than the emissions from any other waste management or disposal method.
- (5) Reporting and Record Keeping. New Source Performance Standard (NSPS) 40 CFR Part 60 Subpart CCCC establishes certain requirements for air curtain destructors or incinerators that burn wood trade waste. These requirements are established in 40 CFR 60.2245-60.2260. The provisions of 40 CFR Part 60 Subpart CCCC promulgated as of September 22, 2005 shall apply and are hereby incorporated by reference in this rule, as published by the U.S. Government Printing Office, 732 N Capitol Street NW, Washington, DC 20401. To comply with NSPS 40 CFR 60.2245-60.2260, sources must conduct an annual Method 9 test. A copy of the annual Method 9 test results shall be submitted to the Director.
- (6) Test Methods. The visible emissions from air pollution sources shall be evaluated as specified by 40 CFR Part 60, Appendix A–Test Methods, Method 9–Visual Determination of the Opacity of Emissions from Stationary Sources. The provisions of 40 CFR Part 60, Appendix A, Method 9 promulgated as of December 23, 1971 is incorporated by reference in this rule, as published by the U.S. Government Printing Office, 732 N Capitol Street NW, Washington, DC 20401.

<b>10 CSR 10-6.050 Start-up, Shutdown and Malfunction Conditions</b>
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- 1) In the event of a malfunction, which results in excess emissions that exceed one hour, the permittee shall submit to the Director within two business days, in writing, the following information:
  - a) Name and location of installation;
  - b) Name and telephone number of person responsible for the installation;
  - c) Name of the person who first discovered the malfunction and precise time and date that the malfunction was discovered.
  - d) Identity of the equipment causing the excess emissions;
  - e) Time and duration of the period of excess emissions;
  - f) Cause of the excess emissions;
  - g) Air pollutants involved;

- h) Best estimate of the magnitude of the excess emissions expressed in the units of the applicable requirement and the operating data and calculations used in estimating the magnitude;
  - i) Measures taken to mitigate the extent and duration of the excess emissions; and
  - j) Measures taken to remedy the situation that caused the excess emissions and the measures taken or planned to prevent the recurrence of these situations.
- 2) The permittee shall submit the paragraph 1 information list to the Director in writing at least ten days prior to any maintenance, start-up or shutdown, which is expected to cause an excessive release of emissions that exceed one hour. If notice of the event cannot be given ten days prior to the planned occurrence, it shall be given as soon as practicable prior to the release. If an unplanned excess release of emissions exceeding one hour occurs during maintenance, start-up or shutdown, the Director shall be notified verbally as soon as practical during normal working hours and no later than the close of business of the following working day. A written notice shall follow within ten working days.
- 3) Upon receipt of a notice of excess emissions issued by an agency holding a certificate of authority under Section 643.140, RSMo, the permittee may provide information showing that the excess emissions were the consequence of a malfunction, start-up or shutdown. The information, at a minimum, should be the paragraph 1 list and shall be submitted not later than 15 days after receipt of the notice of excess emissions. Based upon information submitted by the permittee or any other pertinent information available, the Director or the commission shall make a determination whether the excess emissions constitute a malfunction, start-up or shutdown and whether the nature, extent and duration of the excess emissions warrant enforcement action under Section 643.080 or 643.151, RSMo.
- 4) Nothing in this rule shall be construed to limit the authority of the Director or commission to take appropriate action, under Sections 643.080, 643.090 and 643.151, RSMo to enforce the provisions of the Air Conservation Law and the corresponding rule.
- 5) Compliance with this rule does not automatically absolve the permittee of liability for the excess emissions reported.

#### **10 CSR 10-6.060 Construction Permits Required**

The permittee shall not commence construction, modification, or major modification of any installation subject to this rule, begin operation after that construction, modification, or major modification, or begin operation of any installation which has been shut down longer than five years without first obtaining a permit from the permitting authority.

#### **10 CSR 10-6.065 Operating Permits**

The permittee shall file a complete application for renewal of this operating permit at least six months before the date of permit expiration. In no event shall this time be greater than eighteen months. [10 CSR 10-6.065(5)(B)1.A(III)] The permittee shall retain the most current operating permit issued to this installation on-site. [10 CSR 10-6.065, §(5)(C)(1) and §(6)(C)1.C(II)] The permittee shall immediately make such permit available to any Missouri Department of Natural Resources' personnel upon request. [10 CSR 10-6.065, §(5)(C)(1) and §(6)(C)3.B]

**10 CSR 10-6.080 Emission Standards for Hazardous Air Pollutants and 40 CFR Part 61  
Subpart M National Emission Standard for Asbestos**

- 1) The permittee shall follow the procedures and requirements of 40 CFR Part 61, Subpart M for any activities occurring at this installation which would be subject to provisions for 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos.
- 2) The permittee shall conduct monitoring to demonstrate compliance with registration, certification, notification, and Abatement Procedures and Practices standards as specified in 40 CFR Part 61, Subpart M.

**10 CSR 10-6.110 Submission of Emission Data, Emission Fees and Process Information**

- 1) The permittee shall complete and submit an Emission Inventory Questionnaire (EIQ) in accordance with the requirements outlined in this rule.
- 2) The permittee may be required by the Director to file additional reports.
- 3) Public Availability of Emission Data and Process Information. Any information obtained pursuant to the rule(s) of the Missouri Air Conservation Commission that would not be entitled to confidential treatment under 10 CSR 10-6.210 shall be made available to any member of the public upon request.
- 4) The permittee shall pay an annual emission fee per ton of regulated air pollutant emitted according to the schedule in the rule. This fee is an emission fee assessed under authority of RSMo. 643.079.
- 5) The fees shall be payable to the Department of Natural Resources and shall be accompanied by the Emissions Inventory Questionnaire (EIQ) form or equivalent approved by the Director.
- 6) The permittee shall complete required reports on state supplied EIQ forms or in a form satisfactory to the Director and the reports shall be submitted to the Director by June 1 after the end of each reporting period.
- 7) The reporting period shall end on December 31 of each calendar year. Each report shall contain the required information for each emission unit for the twelve (12)-month period immediately preceding the end of the reporting period.
- 8) The permittee shall collect, record and maintain the information necessary to complete the required forms during each year of operation of the installation.

**10 CSR 10-6.130 Controlling Emissions During Episodes of High Air Pollution Potential**

This rule specifies the conditions that establish an air pollution alert (yellow/orange/red/purple), or emergency (maroon) and the associated procedures and emission reduction objectives for dealing with each. The permittee shall submit an appropriate emergency plan if required by the Director.

**10 CSR 10-6.150 Circumvention**

The permittee shall not cause or permit the installation or use of any device or any other means which, without resulting in reduction in the total amount of air contaminant emitted, conceals or dilutes an emission or air contaminant which violates a rule of the Missouri Air Conservation Commission.

**10 CSR 10-6.170 Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin**

**Emission Limitation:**

- 1) The permittee shall not cause or allow to occur any handling, transporting or storing of any material; construction, repair, cleaning or demolition of a building or its appurtenances; construction or use of a road, driveway or open area; or operation of a commercial or industrial installation without applying reasonable measures as may be required to prevent, or in a manner which allows or may allow, fugitive particulate matter emissions to go beyond the premises of origin in quantities that the particulate matter may be found on surfaces beyond the property line of origin. The nature or origin of the particulate matter shall be determined to a reasonable degree of certainty by a technique proven to be accurate and approved by the Director.
- 2) The permittee shall not cause nor allow to occur any fugitive particulate matter emissions to remain visible in the ambient air beyond the property line of origin.
- 3) Should it be determined that noncompliance has occurred, the Director may require reasonable control measures as may be necessary. These measures may include, but are not limited to, the following:
  - a) Revision of procedures involving construction, repair, cleaning and demolition of buildings and their appurtenances that produce particulate matter emissions;
  - b) Paving or frequent cleaning of roads, driveways and parking lots;
  - c) Application of dust-free surfaces;
  - d) Application of water; and
  - e) Planting and maintenance of vegetative ground cover.

**Monitoring:**

The permittee shall conduct inspections of its facilities sufficient to determine compliance with this regulation. If the permittee discovers a violation, the permittee shall undertake corrective action to eliminate the violation.

The permittee shall maintain the following monitoring schedule:

- 1) The permittee shall conduct weekly observations for a minimum of eight (8) consecutive weeks after permit issuance.
- 2) Should no violation of this regulation be observed during this period then-
  - a) The permittee may observe once every two (2) weeks for a period of eight (8) weeks.
  - b) If a violation is noted, monitoring reverts to weekly.
  - c) Should no violation of this regulation be observed during this period then-
    - i) The permittee may observe once per month.
    - ii) If a violation is noted, monitoring reverts to weekly.
- 3) If the permittee reverts to weekly monitoring at any time, monitoring frequency will progress in an identical manner to the initial monitoring frequency.

**Recordkeeping:**

The permittee shall document all readings on Attachment A, or its equivalent, noting the following:

- 1) Whether air emissions (except water vapor) remain visible in the ambient air beyond the property line of origin.
- 2) Whether the visible emissions were normal for the installation.
- 3) Whether equipment malfunctions contributed to an exceedance.

- 4) Any violations and any corrective actions undertaken to correct the violation.

**10 CSR 10-6.180 Measurement of Emissions of Air Contaminants**

- 1) The Director may require any person responsible for the source of emission of air contaminants to make or have made tests to determine the quantity or nature, or both, of emission of air contaminants from the source. The Director may specify testing methods to be used in accordance with good professional practice. The Director may observe the testing. All tests shall be performed by qualified personnel.
- 2) The Director may conduct tests of emissions of air contaminants from any source. Upon request of the Director, the person responsible for the source to be tested shall provide necessary ports in stacks or ducts and other safe and proper sampling and testing facilities, exclusive of instruments and sensing devices as may be necessary for proper determination of the emission of air contaminants.
- 3) The Director shall be given a copy of the test results in writing and signed by the person responsible for the tests.

**10 CSR 10-2.070 Restriction of Emission of Odors**

**This requirement is not federally enforceable.**

No person may cause, permit or allow the emission of odorous matter in concentrations and frequencies or for durations that odor can be perceived when one volume of odorous air is diluted with seven volumes of odor-free air for two separate trials not less than 15 minutes apart within the period of one hour.

**10 CSR 10-6.100 Alternate Emission Limits**

Proposals for alternate emission limitations shall be submitted on Alternate Emission Limits Permit forms provided by the department. An installation owner or operator must obtain an Alternate Emission Limits Permit in accordance with 10 CSR 10-6.100 before alternate emission limits may become effective.

**10 CSR 10-6.250 Asbestos Abatement Projects – Certification, Accreditation, and Business Exemption Requirements**

The permittee shall conduct all asbestos abatement projects within the procedures established for certification and accreditation by 10 CSR 10-6.250. This rule requires individuals who work in asbestos abatement projects to be certified by the Missouri Department of Natural Resources Air Pollution Control Program. This rule requires training providers who offer training for asbestos abatement occupations to be accredited by the Missouri Department of Natural Resources Air Pollution Control Program. This rule requires persons who hold exemption status from certain requirements of this rule to allow the Department to monitor training provided to employees. Each individual who works in asbestos abatement projects must first obtain certification for the appropriate occupation from the department. Each person who offers training for asbestos abatement occupations must first obtain accreditation from the department. Certain business entities that meet the requirements for state-approved exemption status must allow the Department to monitor training classes provided to employees who perform asbestos abatement.

**Title VI – 40 CFR Part 82 Protection of Stratospheric Ozone**

- 1) The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:

- a) All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to §82.106.
  - b) The placement of the required warning statement must comply with the requirements pursuant to §82.108.
  - c) The form of the label bearing the required warning statement must comply with the requirements pursuant to §82.110.
  - d) No person may modify, remove, or interfere with the required warning statement except as described in §82.112.
- 2) The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners (MVACs) in Subpart B:
- a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to §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 §82.158.
  - c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to §82.161.
  - d) Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with record keeping requirements pursuant to §82.166. ("MVAC-like" appliance as defined at §82.152).
  - e) Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to §82.156.
  - f) Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to §82.166.
- 3) If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR Part 82, Subpart A, Production and Consumption Controls.
- 4) If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant.
- 5) The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR Part 82, Subpart G, Significant New Alternatives Policy Program. *Federal Only - 40 CFR Part 82*

#### **10 CSR 10-6.280 Compliance Monitoring Usage**

- 1) The permittee is not prohibited from using the following in addition to any specified compliance methods for the purpose of submission of compliance certificates:
  - a) Monitoring methods outlined in 40 CFR Part 64;

- b) Monitoring method(s) approved for the permittee pursuant to 10 CSR 10-6.065, "Operating Permits", and incorporated into an operating permit; and
  - c) Any other monitoring methods approved by the Director.
- 2) Any credible evidence may be used for the purpose of establishing whether a permittee has violated or is in violation of any such plan or other applicable requirement. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred by a permittee:
- a) Monitoring methods outlined in 40 CFR Part 64;
  - b) A monitoring method approved for the permittee pursuant to 10 CSR 10-6.065, "Operating Permits", and incorporated into an operating permit; and
  - c) Compliance test methods specified in the rule cited as the authority for the emission limitations.
- 3) The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:
- a) Applicable monitoring or testing methods, cited in:
    - i) 10 CSR 10-6.030, "Sampling Methods for Air Pollution Sources";
    - ii) 10 CSR 10-6.040, "Reference Methods";
    - iii) 10 CSR 10-6.070, "New Source Performance Standards";
    - iv) 10 CSR 10-6.080, "Emission Standards for Hazardous Air Pollutants"; or
  - b) Other testing, monitoring, or information gathering methods, if approved by the Director, that produce information comparable to that produced by any method listed above.

## V. General Permit Requirements

The installation shall comply with each of the following requirements. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect as of the date that this permit is issued.

### **10 CSR 10-6.065, §(5)(E)2 and §(6)(C)1.B Permit Duration**

This permit is issued for a term of five years, commencing on the date of issuance. This permit will expire at the end of this period unless renewed.

### **10 CSR 10-6.065, §(5)(C)1 and §(6)(C)1.C General Record Keeping and Reporting Requirements**

- 1) Record Keeping
  - a) All required monitoring data and support information shall be retained for a period of at least five years from the date of the monitoring sample, measurement, report or application.
  - b) Copies of all current operating and construction permits issued to this installation shall be kept on-site for as long as the permits are in effect. Copies of these permits shall be made immediately available to any Missouri Department of Natural Resources' personnel upon request.
- 2) Reporting
  - a) All reports shall be submitted to the Air Pollution Control Program's Enforcement Section, P. O. Box 176, Jefferson City, MO 65102.
  - b) The permittee shall submit a report of all required monitoring by:
    - i) April 1st for monitoring which covers the January through December time period.
    - ii) Exception. Monitoring requirements which require reporting more frequently than annually shall report no later than 30 days after the end of the calendar quarter in which the measurements were taken.
  - c) Each report shall identify any deviations from emission limitations, monitoring, record keeping, reporting, or any other requirements of the permit.
  - d) Submit supplemental reports as required or as needed. Supplemental reports are required no later than ten days after any exceedance of any applicable rule, regulation or other restriction. All reports of deviations shall identify the cause or probable cause of the deviations and any corrective actions or preventative measures taken.
    - i) Notice of any deviation resulting from an emergency (or upset) condition as defined in paragraph (6)(C)7 of 10 CSR 10-6.065 (Emergency Provisions) shall be submitted to the permitting authority either verbally or in writing within two working days after the date on which the emission limitation is exceeded due to the emergency, if the permittee wishes to assert an affirmative defense. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that indicate an emergency occurred and the permittee can identify the cause(s) of the emergency. The permitted installation must show that it was operated properly at the time and that during the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or requirements in the permit. The notice must contain a description of the emergency, the steps taken to mitigate emissions, and the corrective actions taken.

- ii) Any deviation that poses an imminent and substantial danger to public health, safety or the environment shall be reported as soon as practicable.
- iii) Any other deviations identified in the permit as requiring more frequent reporting than the permittee's annual report shall be reported on the schedule specified in this permit, and no later than ten days after any exceedance of any applicable rule, regulation, or other restriction.
- e) Every report submitted shall be certified by the responsible official, except that, if a report of a deviation must be submitted within ten days after the deviation, the report may be submitted without a certification if the report is resubmitted with an appropriate certification within ten days after that, together with any corrected or supplemental information required concerning the deviation.
- f) The permittee may request confidential treatment of information submitted in any report of deviation.

**10 CSR 10-6.065 §(5)(C)1 and §(6)(C)1.D Risk Management Plan Under Section 112(r)**

The permittee shall comply with the requirements of 40 CFR Part 68, Accidental Release Prevention Requirements. If the permittee has more than a threshold quantity of a regulated substance in process, as determined by 40 CFR Section 68.115, the permittee shall submit a Risk Management Plan in accordance with 40 CFR Part 68 no later than the latest of the following dates:

- 1) June 21, 1999;
- 2) Three years after the date on which a regulated substance is first listed under 40 CFR Section 68.130; or
- 3) The date on which a regulated substance is first present above a threshold quantity in a process.

**10 CSR 10-6.065(5)(C)1.A General Requirements**

- 1) The permittee must comply with all of the terms and conditions of this permit. Any noncompliance with a permit condition constitutes a violation and is grounds for enforcement action, permit termination, permit revocation and re-issuance, permit modification or denial of a permit renewal application.
- 2) The permittee may not use as a defense in an enforcement action that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit
- 3) The permit may be modified, revoked, reopened, reissued or terminated for cause. Except as provided for minor permit modifications, the filing of an application or request for a permit modification, revocation and reissuance, or termination, or the filing of a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
- 4) This permit does not convey any property rights of any sort, nor grant any exclusive privilege.
- 5) The permittee shall furnish to the Air Pollution Control Program, upon receipt of a written request and within a reasonable time, any information that the Air Pollution Control Program reasonably may require to determine whether cause exists for modifying, reopening, reissuing or revoking the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to the Air Pollution Control Program copies of records required to be kept by the permittee. The permittee may make a claim of confidentiality for any information or records submitted under this rule.

- 6) Failure to comply with the limitations and conditions that qualify the installation for an Intermediate permit make the installation subject to the provisions of 10 CSR 10-6.065(6) and enforcement action for operating without a valid part 70 operating permit.

**10 CSR 10-6.065(5)(C)1.C Reasonably Anticipated Operating Scenarios**

None

**10 CSR 10-6.065, §(5)(B)4; §(5)(C)1, §(6)(C)3.B; and §(6)(C)3.D; and §(5)(C)3 and §(6)(C)3.E.(I) – (III) and (V) – (VI) Compliance Requirements**

- 1) Any document (including reports) required to be submitted under this permit shall contain a certification signed by the responsible official.
- 2) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized officials of the Missouri Department of Natural Resources, or their authorized agents, to perform the following (subject to the installation's right to seek confidential treatment of information submitted to, or obtained by, the Air Pollution Control Program):
  - a) Enter upon the premises where a permitted installation is located or an emissions-related activity is conducted, 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, at reasonable times and using reasonable safety practices, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit; and
  - d) As authorized by the Missouri Air Conservation Law, Chapter 643, RSMo or the Act, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the terms of this permit, and all applicable requirements as outlined in this permit.
- 3) All progress reports required under an applicable schedule of compliance shall be submitted semiannually (or more frequently if specified in the applicable requirement). These progress reports shall contain the following:
  - a) Dates for achieving the activities, milestones or compliance required in the schedule of compliance, and dates when these activities, milestones or compliance were achieved, and
  - b) An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventative or corrective measures adopted.
- 4) The permittee shall submit an annual certification that it is in compliance with all of the federally enforceable terms and conditions contained in this permit, including emissions limitations, standards, or work practices. These certifications shall be submitted annually by April 1st, unless the applicable requirement specifies more frequent submission. These certifications shall be submitted to the Air Pollution Control Program, Enforcement Section, P.O. Box 176, Jefferson City, MO 65102. All deviations and exceedances must be included in the compliance certifications. The compliance certification shall include the following:
  - a) The identification of each term or condition of the permit that is the basis of the certification;
  - b) The current compliance status, as shown by monitoring data and other information reasonably available to the installation;
  - c) Whether compliance was continuous or intermittent;
  - d) The method(s) used for determining the compliance status of the installation, both currently and over the reporting period; and

- e) Such other facts as the Air Pollution Control Program will require in order to determine the compliance status of this installation.

**10 CSR 10-6.065, §(5)(C)1 and §(6)(C)7 Emergency Provisions**

- 1) An emergency or upset as defined in 10 CSR 10-6.065(6)(C)7.A shall constitute an affirmative defense to an enforcement action brought for noncompliance with technology-based emissions limitations. To establish an emergency- or upset-based defense, the permittee must demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence, the following:
  - a) That an emergency or upset occurred and that the permittee can identify the source of the emergency or upset,
  - b) That the installation was being operated properly,
  - c) That the permittee took all reasonable steps to minimize emissions that exceeded technology-based emissions limitations or requirements in this permit, and
  - d) That the permittee submitted notice of the emergency to the Air Pollution Control Program within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and any corrective actions taken.
- 2) Be aware that an emergency or upset shall not include noncompliance caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

**10 CSR 10-6.065(5)(C)5 Off-Permit Changes**

- 1) Except as noted below, the permittee may make any change in its permitted installation's operations, activities or emissions that is not addressed in, constrained by or prohibited by this permit without obtaining a permit revision. Off-permit changes shall be subject to the following requirements and restrictions:
  - a) The change must meet all applicable requirements of the Act and may not violate any existing permit term or condition; the permittee may not change a permitted installation without a permit revision if this change is a Title I modification; Please Note: Changes at the installation which affect the emission limitation(s) classifying the installation as an intermediate source (add additional equipment to the record keeping requirements, increase the emissions above major source level) do not qualify for off-permit changes.
  - b) The permittee must provide written notice of the change to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 901 North 5th Street, Kansas City, KS 66101, no later than the next annual emissions report. This written notice shall describe each change, including the date, any change in emissions, pollutants emitted and any applicable requirement that would apply as a result of the change; and
  - c) The permittee shall keep a record describing all changes made at the installation that result in emissions of a regulated air pollutant subject to an applicable requirement and the emissions resulting from these changes.

**10 CSR 10-6.020(2)(R)12 Responsible Official**

The application utilized in the preparation of this permit was signed by Mr. Ken Fite, Plant Manager. On November 30, 2009, the Air Pollution Control Program was informed by email that Mr. Mark Hanf, President is now the responsible official. If this person terminates employment, or is reassigned different duties such that a different person becomes the responsible person to represent and bind the installation

in environmental permitting affairs, the owner or operator of this air contaminant source shall notify the Director of the Air Pollution Control Program of the change. Said notification shall be in writing and shall be submitted within 30 days of the change. The notification shall include the name and title of the new person assigned by the source owner or operator to represent and bind the installation in environmental permitting affairs. All representations, agreement to terms and conditions and covenants made by the former responsible person that were used in the establishment of limiting permit conditions on this permit will continue to be binding on the installation until such time that a revision to this permit is obtained that would change said representations, agreements and covenants.

**10 CSR 10-6.065 §(5)(E)4 and §(6)(E)6.A(III)(a)-(c) Reopening-Permit for Cause**

This permit may be reopened for cause if:

- 1) The Missouri Department of Natural Resources (MDNR) or EPA determines that the permit contains a material mistake or that inaccurate statements were made which resulted in establishing the emissions limitation standards or other terms of the permit,
- 2) Additional applicable requirements under the Act become applicable to the installation; however, reopening on this ground is not required if—:
  - a) The permit has a remaining term of less than three years;
  - b) The effective date of the requirement is later than the date on which the permit is due to expire;  
or
  - c) The additional applicable requirements are implemented in a general permit that is applicable to the installation and the installation receives authorization for coverage under that general permit,
- 3) The Missouri Department of Natural Resources or EPA determines that the permit must be reopened and revised to assure compliance with applicable requirements.

**10 CSR 10-6.065 §(5)(E)1.A and §(6)(E)1.C Statement of Basis**

This permit is accompanied by a statement setting forth the legal and factual basis for the permit conditions (including references to applicable statutory or regulatory provisions). This Statement of Basis, while referenced by the permit, is not an actual part of the permit.

## **VI. Attachments**

Attachments follow.













**ATTACHMENT I**  
 10 CSR 10-2.040 Compliance Demonstration

This attachment may be used to demonstrate that the listed emission units are in compliance with 10 CSR 10-2.040, *Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating*. Installation's Total Heat Input (Q) in MMBtu/hr:

<b>Emission Unit</b>	<b>Description</b>	<b>MHDR (MMBtu/hr)</b>
EP08	East Hot Water Boiler – North Building	2.25
EP09	Steam Boiler – South Building	3.35
EP10	West Hot Water Boiler – North Building	2.74
EP11	Regenerative Thermal Oxidizer (CD1)	5.87
<b>Total Q</b>		14.21

The allowable PM emission limit for new indirect heating sources having an intermediate capacity between 10 MMBtu/hr and 1,000 MMBtu/hr is calculated by:

$$E = 0.80(Q)^{-0.301}$$

$$E = 0.80(14.21)^{-0.301} = 0.36 \text{ lb/MMBtu}$$

<b>Emission Unit</b>	<b>Description</b>	<b>Emission Factor</b>	<b>Emission Factor (lb/MMBtu)</b>	<b>Emission Limit (lb/MMBtu)</b>
EP08	East Hot Water Boiler – North Building	8.7 lbs/MMscf	0.008	0.36
EP09	Steam Boiler – South Building	8.7 lbs/MMscf	0.008	0.36
EP10	West Hot Water Boiler – North Building	8.7 lbs/MMscf	0.008	0.36

Emission factors were taken from FIRE and AP-42. All of the indirect heating sources meet the emission limits without the aid of a control device, therefore CAM is not applicable.







# STATEMENT OF BASIS

## **Voluntary Limitations**

In order to qualify for this Intermediate State Operating Permit, the permittee has accepted voluntary, federally enforceable emission limitations. Per 10 CSR 10-6.065(5)(C)1.A.(VI), if these limitations are exceeded, the installation immediately becomes subject to 10 CSR 10-6.065(6) and enforcement action for operating without a valid part 70 operating permit. It is the permittee's responsibility to monitor emission levels and apply for a part 70 operating permit far enough in advance to avoid this situation. This may mean applying more than eighteen months in advance of the exceedance, since it can take that long or longer to obtain a part 70 operating permit.

## **Permit Reference Documents**

These documents were relied upon in the preparation of the operating permit. Because they are not incorporated by reference, they are not an official part of the operating permit.

- 1) Intermediate Operating Permit Application, received June 29, 2006
- 2) 2008 Emissions Inventory Questionnaire, received May 26, 2009
- 3) U.S. EPA document AP-42, *Compilation of Air Pollutant Emission Factors*; Volume I, Stationary Point and Area Sources, Fifth Edition
- 4) Construction Permit 0890-010, Issued August 27, 1990
- 5) Construction Permit 1092-007, Issued October 19, 1992
- 6) Construction Permit 0697-019, Issued June 13, 1997
- 7) Construction Permit 0697-020, Issued June 2, 1997
- 8) Construction Permit 112001-004, Issued September 20, 2001
- 9) Construction Permit 052007-010, Issued May 25, 2007

## **Applicable Requirements Included in the Operating Permit but Not in the Application or Previous Operating Permits**

In the operating permit application, the installation indicated they were not subject to the following regulation(s). However, in the review of the application, the agency has determined that the installation is subject to the following regulation(s) for the reasons stated.

None.

## **Other Air Regulations Determined Not to Apply to the Operating Permit**

The Air Pollution Control Program (APCP) has determined that the following requirements are not applicable to this installation at this time for the reasons stated.

10 CSR 10-6.260 *Restriction of Emission of Sulfur Compounds* is not applicable to this installation. The only sulfur emissions sources are the natural gas fired indirect heating sources (EP08, EP09, EP10, and EP11). Combustion equipment that use exclusively pipeline grade natural gas are exempted from this regulation [10 CSR 10-6.260(1)(A)(2)].

10 CSR 10-6.400 *Restriction of Emission of Particulate Matter From Industrial Processes* is not applicable to this installation because all PM emission sources are either fugitive or indirect heating sources.

10 CSR 10-2.215 *Control of Emissions from Solvent Cleanup Operations* is not applicable to this installation. The provisions of this rule shall not apply to any stationary source at which cleaning solvent VOCs are emitted at less than five hundred (500) pounds per day [10 CSR 10-2.215(1)(B)]. The permittee has the potential to emit 125 lbs/day of VOC from cleaning operations and is, therefore, not subject to this regulation.

### **Construction Permit Revisions**

The following revisions were made to construction permits for this installation:

Construction Permit 0697-019, Issued June 13, 1997:

The special condition contained within this construction permit was not incorporated into this operating permit because the condition was specific to EP15 5 Unit Planeta Sheetfed Press which has been sold and removed from the installation.

### **New Source Performance Standards (NSPS) Applicability**

The installation is only permitted to operate lithographic printing presses. There are no applicable NSPS for lithographic printing installations.

### **Maximum Available Control Technology (MACT) Applicability**

The installation is an area source for HAPs. There are no area sources MACTs applicable to lithographic printing installations.

### **National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability**

In the permit application and according to Air Pollution Control Program records, there was no indication that any Missouri Air Conservation Law, Asbestos Abatement, 643.225 through 643.250; 10 CSR 10-6.080, Emission Standards for Hazardous Air Pollutants, Subpart M, National Standards for Asbestos; and 10 CSR 10-6.250, Asbestos Abatement Projects - Certification, Accreditation, and Business Exemption Requirements apply to this installation. The installation is subject to these regulations if they undertake any projects that deal with or involve any asbestos containing materials. None of the installation's operating projects underway at the time of this review deal with or involve asbestos containing material. Therefore, the above regulations were not cited in the operating permit. If the installation should undertake any construction or demolition projects in the future that deal with or involve any asbestos containing materials, the installation must follow all of the applicable requirements of the above rules related to that specific project.

### **Other Regulatory Determinations**

10 CSR 10-6.220 *Restriction of Emission of Visible Air Contaminants* is applicable to this installation, but has not been applied within this permit. The emission units subject to this regulation are indirect heating sources EP08, EP09, EP10, and EP11 each emission unit emits less than 0.05 lbs/hr of PM<sub>10</sub> and should always been in compliance with their 20% opacity limitation.

An updated Potential to Emit for the installation is shown below:

Pollutant	Potential To Emit (tons/yr)
CO	1.19
NO <sub>x</sub>	8.91
PM <sub>10</sub>	5.98
SO <sub>x</sub>	0.15
VOC	141.75
Combined HAPs	26.43
Toluene 108-88-3	14.35
Glycol Ethers 20-10-0	14.27
Ethylene Glycol 107-21-1	13.21
Manganese Compounds 20-12-2	1.63
Cobalt Compounds 20-07-5	1.18
Isomers of Xylene 1330-20-7	0.89
Isopropylbenzene 98-82-8	0.51
Cresol 1319-77-3	0.27

**Other Regulations Not Cited in the Operating Permit or the Above Statement of Basis**

Any regulation which is not specifically listed in either the Operating Permit or in the above Statement of Basis does not appear, based on this review, to be an applicable requirement for this installation for one or more of the following reasons.

- 1) The specific pollutant regulated by that rule is not emitted by the installation.
- 2) The installation is not in the source category regulated by that rule.
- 3) The installation is not in the county or specific area that is regulated under the authority of that rule.
- 4) The installation does not contain the type of emission unit which is regulated by that rule.
- 5) The rule is only for administrative purposes.

Should a later determination conclude that the installation is subject to one or more of the regulations cited in this Statement of Basis or other regulations which were not cited, the installation shall determine and demonstrate, to the Air Pollution Control Program's satisfaction, the installation's compliance with that regulation(s). If the installation is not in compliance with a regulation which was not previously cited, the installation shall submit to the Air Pollution Control Program a schedule for achieving compliance for that regulation(s).

Prepared by:

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Alana L. Rugen  
Environmental Engineer