

ILLINOIS POLLUTION CONTROL BOARD
November 3, 1994

IN THE MATTER OF:)
)
15% ROP PLAN CONTROL MEASURES)
FOR VOM EMISSIONS - PART V:) R94-31
CONTROL OF VOLATILE ORGANIC) (Rulemaking)
COMPOUND EMISSIONS FROM)
LITHOGRAPHIC PRINTING:)
AMENDMENTS TO 35 ILL. ADM.)
CODE PARTS 211, 218, AND 219.)

Proposed Rule. First Notice.

OPINION AND ORDER OF THE BOARD (by M. McFawn):

On October 28, 1994, the Illinois Environmental Protection Agency (Agency) filed this proposal for rulemaking. Section 182(b)(1) of the Clean Air Act (CAA), as amended in 1990, requires all moderate and above ozone nonattainment areas to achieve a 15% reduction of 1990 emissions of volatile organic material (VOM) by 1996. In Illinois, the Chicago and Metro-East St. Louis (Metro-East) areas are classified as "severe" and "moderate" nonattainment for ozone, respectively, and as such are subject to the 15% reduction requirement. Also pursuant to Section 182(b) of the CAA, Illinois is to submit a 15% Rate of Progress Plan (ROP) within three years of the enactment of the CAA amendments. This rulemaking represents Part V of the rules proposed in the Illinois 15% ROP.

This proposal was filed pursuant to Section 28.5 of the Environmental Protection Act (Act) (415 ILCS 5/28.5 (1992)), commonly referred to as "Fast Track Rulemaking". Due to its time constraints, the Board today acts to send this proposal to first notice under the Illinois Administrative Procedure Act, but without commenting on the merits of the proposal.

The Agency's proposal seeks to amend 35 Ill. Adm. Code 218 and 219 to include control measures for the control of VOM emission from offset lithographic printing in Subpart H of both these parts. It also amends Part 211 to add definitions of non-heatset and sheet-fed types of lithographic printing, as-applied fountain solution, and alcohol for the purposes of lithographic printing. It also includes a minor amendment to 35 Ill. Adm. Code Sections 218.480 and 219.480, which clarifies an amendment made to these sections in R93-14, In the Matter of: Reasonably Available Control Technology for Major Sources Emitting Volatile Organic Materials in the Chicago Ozone Nonattainment Area: 25 Tons: Amendments to 35 Ill. Adm. Code Parts 211 and 218.

The proposed rules would establish control measures for reduction of VOM which would apply to all lithographic printing lines at a source if the VOM emissions from lithographic printing

lines at the source ever exceed 45.5 kilograms per day (kg/day) or 100 pounds per day (lbs/day). The control requirements would also apply to sources with heatset web offset lithographic printing lines at a source if the VOM emissions from these lines meet the applicability criteria in Section 218.405(a)(1)(A) or 219.405(a)(1)(A), which are renumbered in this proposal as 218.405(a)(1) and 219.405(a)(1), respectively. These criteria specify that if the total Maximum Theoretical Emissions (MTE) of VOM from heatset web offset lithographic printing lines at the source ever exceed 90.7 megagrams per year (Mg/yr), or 100 tons per year (TPY), the lines are subject to the control requirements and VOM content limitations for fountain solutions. The proposed regulations would also impose certain recordkeeping and reporting requirements on all sources with lithographic printing lines, even if they are otherwise exempt from the control requirements of the proposal.

Fast Track Rulemaking pursuant to Section 28.5 of the Act requires the Board to proceed with rulemaking under set time-frames. The time lines set forth below are identical to those outlined in the first notice order in R94-32, In the Matter of: 15% ROP Plan Control Measures for VOM Emissions - Part VI: Motor Vehicle Refinishing: Amendments to 35 Ill. Adm. Code Parts 211, 218, and 219, which was also filed on October 28, 1994. In the interest of administrative economy, the Board will coordinate hearings in these two matters to the extent practicable, but we cannot adjust deadlines for those who intend to participate in both sets of hearings. The Board has no discretion to adjust these time frames under any circumstances.

The following schedule indicates the deadlines by which the Board must act, as provided in Section 28.5:

first notice	on or before November 12, 1994
first hearing	on or before December 22, 1994
second hearing	no later than 30 days after the start of the first hearing
third hearing	no later than 14 days after the start of the second hearing
second notice	
(if third hearing cancelled)	on or before March 7, 1995
(if third hearing held)	on or before March 27, 1995
final adoption and filing	21 days after receipt of JCARR certificate of no objection

The Board notes that the above dates are the deadlines as established by Section 28.5 and do not represent actual hearing dates or filing dates. While the schedule includes second and third hearings, these hearings may be cancelled if unnecessary. The Board will proceed in this matter as prescribed in Section 28.5 and discussed in the Board's resolution. (See Clean Air Act

Rulemaking Procedures Pursuant to Section 28.5 of the Environmental Protection Act, as Added By P.A. 87-1213, (October 29, 1992 and December 3, 1992), RES 92-2.)

The Agency has filed a motion for waiver of requirements with the proposal. The Agency requests waiver of the following requirements. That the Agency: (1) submit the original and nine copies of the entire regulatory proposal; (2) submit a copy of the proposal to the Attorney General and the Department of Energy and Natural Resources (ENR); and (3) submit copies of all documents upon which it relied. The Agency asks that it be permitted to file an original plus five complete copies of the proposal and four partial copies. A partial copy includes the pleadings and the proposed rules, but does not include the supporting exhibits. The Attorney General and ENR have agreed with the Agency that a copy of the proposal need not be served upon them. The Agency had provided the Board with one copy of the majority of the documents on which it relied, and notes that the other documents are readily accessible or already in the Board's possession. The Board grants the Agency's motion.

ORDER

The Board directs the Clerk to cause publication of the following amendments in the Illinois Register for first notice:

TITLE 35: ENVIRONMENTAL PROTECTION
 SUBTITLE B: AIR POLLUTION
 CHAPTER I: POLLUTION CONTROL BOARD
 SUBCHAPTER c: EMISSION STANDARDS AND LIMITATIONS
 FOR STATIONARY SOURCES

PART 211
 DEFINITIONS AND GENERAL PROVISIONS

SUBPART A: GENERAL PROVISIONS

Section
 211.101 Incorporations by Reference
 211.102 Abbreviations and Conversion Factors

SUBPART B: DEFINITIONS

Section
 211.121 Other Definitions
 211.122 Definitions (Repealed)
 211.130 Accelacota
 211.150 Accumulator
 211.170 Acid Gases
 211.210 Actual Heat Input
 211.230 Adhesive
 211.250 Aeration

211.270 Aerosol Can Filling Line
211.290 Afterburner
211.310 Air Contaminant
211.330 Air Dried Coatings
211.350 Air Oxidation Process
211.370 Air Pollutant
211.390 Air Pollution
211.410 Air Pollution Control Equipment
211.430 Air Suspension Coater/Dryer
211.450 Airless Spray
211.470 Air Assisted Airless Spray
211.474 Alcohol
211.490 Annual Grain Through-Put
211.510 Application Area
211.530 Architectural Coating
211.550 As Applied
211.560 As-Applied Fountain Solution
211.570 Asphalt
211.590 Asphalt Prime Coat
211.610 Automobile
211.630 Automobile or Light-Duty Truck Assembly Source or
Automobile or Light-Duty Truck Manufacturing Plant
211.650 Automobile or Light-Duty Truck Refinishing
211.670 Baked Coatings
211.690 Batch Loading
211.710 Bead-Dipping
211.730 Binders
211.750 British Thermal Unit
211.770 Brush or Wipe Coating
211.790 Bulk Gasoline Plant
211.810 Bulk Gasoline Terminal
211.830 Can
211.850 Can Coating
211.870 Can Coating Line
211.890 Capture
211.910 Capture Device
211.930 Capture Efficiency
211.950 Capture System
211.970 Certified Investigation
211.990 Choke Loading
211.1010 Clean Air Act
211.1050 Cleaning and Separating Operation
211.1070 Cleaning Materials
211.1090 Clear Coating
211.1110 Clear Topcoat
211.1130 Closed Purge System
211.1150 Closed Vent System
211.1170 Coal Refuse
211.1190 Coating
211.1210 Coating Applicator
211.1230 Coating Line
211.1250 Coating Plant

211.1270 Coil Coating
211.1290 Coil Coating Line
211.1310 Cold Cleaning
211.1330 Complete Combustion
211.1350 Component
211.1370 Concrete Curing Compounds
211.1390 Concentrated Nitric Acid Manufacturing Process
211.1410 Condensate
211.1430 Condensible PM-10
211.1470 Continuous Process
211.1490 Control Device
211.1510 Control Device Efficiency
211.1530 Conventional Soybean Crushing Source
211.1550 ConveyORIZED Degreasing
211.1570 Crude Oil
211.1590 Crude Oil Gathering
211.1610 Crushing
211.1630 Custody Transfer
211.1650 Cutback Asphalt
211.1670 Daily-Weighted Average VOM Content
211.1690 Day
211.1710 Degreaser
211.1730 Delivery Vessel
211.1750 Dip Coating
211.1770 Distillate Fuel Oil
211.1790 Drum
211.1810 Dry Cleaning Operation or Dry Cleaning Facility
211.1830 Dump-Pit Area
211.1850 Effective Grate Area
211.1870 Effluent Water Separator
211.1890 Electrostatic Bell or Disc Spray
211.1910 Electrostatic Spray
211.1920 Emergency or Standby Unit
211.1930 Emission Rate
211.1950 Emission Unit
211.1970 Enamel
211.1990 Enclose
211.2010 End Sealing Compound Coat
211.2030 Enhanced Under-the-Cup Fill
211.2050 Ethanol Blend Gasoline
211.2070 Excess Air
211.2090 Excessive Release
211.2110 Existing Grain-Drying Operation
211.2130 Existing Grain-Handling Operation
211.2150 Exterior Base Coat
211.2170 Exterior End Coat
211.2190 External Floating Roof
211.2210 Extreme Performance Coating
211.2230 Fabric Coating
211.2250 Fabric Coating Line
211.2270 Federally Enforceable Limitations and Conditions
211.2310 Final Repair Coat

211.2330 Firebox
211.2350 Fixed-Roof Tank
211.2370 Flexographic Printing
211.2390 Flexographic Printing Line
211.2410 Floating Roof
211.2430 Fountain Solution
211.2450 Freeboard Height
211.2470 Fuel Combustion Emission Unit or Fuel Combustion
Emission Source
211.2490 Fugitive Particulate Matter
211.2510 Full Operating Flowrate
211.2530 Gas Service
211.2550 Gas/Gas Method
211.2570 Gasoline
211.2590 Gasoline Dispensing Operation or Gasoline Dispensing
Facility
211.2610 Gel Coat
211.2650 Grain
211.2670 Grain-Drying Operation
211.2690 Grain-Handling and Conditioning Operation
211.2710 Grain-Handling Operation
211.2730 Green-Tire Spraying
211.2750 Green Tires
211.2770 Gross Heating Value
211.2790 Gross Vehicle Weight Rating
211.2810 Heated Airless Spray
211.2830 Heatset
211.2850 Heatset Web Offset Lithographic Printing Line
211.2870 Heavy Liquid
211.2890 Heavy Metals
211.2910 Heavy Off-Highway Vehicle Products
211.2930 Heavy Off-Highway Vehicle Products Coating
211.2950 Heavy Off-Highway Vehicle Products Coating Line
211.2970 High Temperature Aluminum Coating
211.2990 High Volume Low Pressure (HVLV) Spray
211.3010 Hood
211.3030 Hot Well
211.3050 Housekeeping Practices
211.3070 Incinerator
211.3090 Indirect Heat Transfer
211.3110 Ink
211.3130 In-Process Tank
211.3150 In-Situ Sampling Systems
211.3170 Interior Body Spray Coat
211.3190 Internal-Floating Roof
211.3210 Internal Transferring Area
211.3230 Lacquers
211.3250 Large Appliance
211.3270 Large Appliance Coating
211.3290 Large Appliance Coating Line
211.3310 Light Liquid
211.3330 Light-Duty Truck

211.3350 Light Oil
211.3370 Liquid/Gas Method
211.3390 Liquid-Mounted Seal
211.3410 Liquid Service
211.3430 Liquids Dripping
211.3450 Lithographic Printing Line
211.3470 Load-Out Area
211.3490 Low Solvent Coating
211.3500 Lubricating Oil
211.3510 Magnet Wire
211.3530 Magnet Wire Coating
211.3550 Magnet Wire Coating Line
211.3570 Major Dump Pit
211.3590 Major Metropolitan Area (MMA)
211.3610 Major Population Area (MPA)
211.3620 Manually Operated Equipment
211.3630 Manufacturing Process
211.3650 Marine Terminal
211.3670 Material Recovery Section
211.3690 Maximum Theoretical Emissions
211.3710 Metal Furniture
211.3730 Metal Furniture Coating
211.3750 Metal Furniture Coating Line
211.3770 Metallic Shoe-Type Seal
211.3790 Miscellaneous Fabricated Product Manufacturing Process
211.3810 Miscellaneous Formulation Manufacturing Process
211.3830 Miscellaneous Metal Parts and Products
211.3850 Miscellaneous Metal Parts and Products Coating
211.3870 Miscellaneous Metal Parts or Products Coating Line
211.3890 Miscellaneous Organic Chemical Manufacturing Process
211.3910 Mixing Operation
211.3930 Monitor
211.3950 Monomer
211.3970 Multiple Package Coating
211.3990 New Grain-Drying Operation
211.4010 New Grain-Handling Operation
211.4030 No Detectable Volatile Organic Material Emissions
211.4050 Non-contact Process Water Cooling Tower
211.4065 Non-Heatset
211.4070 Offset
211.4090 One Hundred Percent Acid
211.4110 One-Turn Storage Space
211.4130 Opacity
211.4150 Opaque Stains
211.4170 Open Top Vapor Degreasing
211.4190 Open-Ended Valve
211.4210 Operator of a Gasoline Dispensing Operation or Operator
of a Gasoline Dispensing Facility
211.4230 Organic Compound
211.4250 Organic Material and Organic Materials
211.4260 Organic Solvent
211.4270 Organic Vapor

211.4290 Oven
211.4310 Overall Control
211.4330 Overvarnish
211.4350 Owner of a Gasoline Dispensing Operation or Owner of a Gasoline Dispensing Facility
211.4370 Owner or Operator
211.4390 Packaging Rotogravure Printing
211.4410 Packaging Rotogravure Printing Line
211.4430 Pail
211.4450 Paint Manufacturing Source or Paint Manufacturing Plant
211.4470 Paper Coating
211.4490 Paper Coating Line
211.4510 Particulate Matter
211.4530 Parts Per Million (Volume) or PPM (Vol)
211.4550 Person
211.4590 Petroleum
211.4610 Petroleum Liquid
211.4630 Petroleum Refinery
211.4650 Pharmaceutical
211.4670 Pharmaceutical Coating Operation
211.4690 Photochemically Reactive Material
211.4710 Pigmented Coatings
211.4730 Plant
211.4750 Plasticizers
211.4770 PM-10
211.4790 Pneumatic Rubber Tire Manufacture
211.4810 Polybasic Organic Acid Partial Oxidation Manufacturing Process
211.4830 Polyester Resin Material(s)
211.4850 Polyester Resin Products Manufacturing Process
211.4870 Polystyrene Plant
211.4890 Polystyrene Resin
211.4910 Portable Grain-Handling Equipment
211.4930 Portland Cement Manufacturing Process Emission Source
211.4950 Portland Cement Process or Portland Cement Manufacturing Plant
211.4970 Potential to Emit
211.4990 Power Driven Fastener Coating
211.5030 Pressure Release
211.5050 Pressure Tank
211.5060 Pressure/Vacuum Relief Valve
211.5070 Prime Coat
211.5090 Primer Surfacer Coat
211.5110 Primer Surfacer Operation
211.5130 Primers
211.5150 Printing
211.5170 Printing Line
211.5185 Process Emission Source
211.5190 Process Emission Unit
211.5210 Process Unit
211.5230 Process Unit Shutdown
211.5250 Process Weight Rate

211.5270 Production Equipment Exhaust System
211.5310 Publication Rotogravure Printing Line
211.5330 Purged Process Fluid
211.5340 Rated Heat Input Capacity
211.5350 Reactor
211.5370 Reasonably Available Control Technology (RACT)
211.5390 Reclamation System
211.5410 Refiner
211.5430 Refinery Fuel Gas
211.5450 Refinery Fuel Gas System
211.5470 Refinery Unit or Refinery Process Unit
211.5490 Refrigerated Condenser
211.5500 Regulated Air Pollutant
211.5510 Reid Vapor Pressure
211.5530 Repair
211.5550 Repair Coat
211.5570 Repaired
211.5590 Residual Fuel Oil
211.5610 Restricted Area
211.5630 Retail Outlet
211.5650 Ringelmann Chart
211.5670 Roadway
211.5690 Roll Coater
211.5710 Roll Coating
211.5730 Roll Printer
211.5750 Roll Printing
211.5770 Rotogravure Printing
211.5790 Rotogravure Printing Line
211.5810 Safety Relief Valve
211.5830 Sandblasting
211.5850 Sanding Sealers
211.5870 Screening
211.5890 Sealer
211.5910 Semi-Transparent Stains
211.5930 Sensor
211.5950 Set of Safety Relief Valves
211.5970 Sheet Basecoat
211.5990 Shotblasting
211.6010 Side-Seam Spray Coat
211.6030 Smoke
211.6050 Smokeless Flare
211.6070 Solvent
211.6090 Solvent Cleaning
211.6110 Solvent Recovery System
211.6130 Source
211.6150 Specialty High Gloss Catalyzed Coating
211.6170 Specialty Leather
211.6190 Specialty Soybean Crushing Source
211.6210 Splash Loading
211.6230 Stack
211.6250 Stain Coating
211.6270 Standard Conditions

211.6290 Standard Cubic Foot (scf)
211.6310 Start-Up
211.6330 Stationary Emission Source
211.6350 Stationary Emission Unit
211.6355 Stationary Gas Turbine
211.6360 Stationary Reciprocating Internal Combustion Engine
211.6370 Stationary Source
211.6390 Stationary Storage Tank
211.6410 Storage Tank or Storage Vessel
211.6430 Styrene Devolatilizer Unit
211.6450 Styrene Recovery Unit
211.6470 Submerged Loading Pipe
211.6490 Substrate
211.6510 Sulfuric Acid Mist
211.6530 Surface Condenser
211.6550 Synthetic Organic Chemical or Polymer Manufacturing Plant
211.6570 Tablet Coating Operation
211.6590 Thirty-Day Rolling Average
211.6610 Three-Piece Can
211.6630 Through-the-Valve Fill
211.6650 Tooling Resin
211.6670 Topcoat
211.6690 Topcoat Operation
211.6710 Touch-Up
211.6730 Transfer Efficiency
211.6750 Tread End Cementing
211.6770 True Vapor Pressure
211.6790 Turnaround
211.6810 Two-Piece Can
211.6830 Under-the-Cup Fill
211.6850 Undertread Cementing
211.6870 Unregulated Safety Relief Valve
211.6890 Vacuum Producing System
211.6910 Vacuum Service
211.6930 Valves Not Externally Regulated
211.6950 Vapor Balance System
211.6970 Vapor Collection System
211.6990 Vapor Control System
211.7010 Vapor-Mounted Primary Seal
211.7030 Vapor Recovery System
211.7050 Vapor-Suppressed Polyester Resin
211.7070 Vinyl Coating
211.7090 Vinyl Coating Line
211.7110 Volatile Organic Liquid (VOL)
211.7130 Volatile Organic Material Content (VOMC)
211.7150 Volatile Organic Material (VOM) or Volatile Organic Compound (VOC)
211.7170 Volatile Petroleum Liquid
211.7190 Wash Coat
211.7210 Wastewater (Oil/Water) Separator
211.7230 Weak Nitric Acid Manufacturing Process

- 211.7250 Web
- 211.7270 Wholesale Purchase - Consumer
- 211.7290 Wood Furniture
- 211.7310 Wood Furniture Coating
- 211.7330 Wood Furniture Coating Line
- 211.7350 Woodworking

APPENDIX A Rule into Section Table
 APPENDIX B Section into Rule Table

AUTHORITY: Implementing Sections 9, 9.1 and 10 and authorized by Section 27 and 28.5 of the Environmental Protection Act ~~(Ill. Rev. Stat. 1991, ch. 111^{1/2}, pars. 1009, 1009.1, 1010 and 1027), (P.A. 87-1213, effective September 26, 1992)~~ [415 ILCS 5/9, 9.1, 10, 27 and 28.5 (1992)].

SOURCE: Adopted as Chapter 2: Air Pollution, Rule 201: Definitions, R71-23, 4 PCB 191, filed and effective April 14, 1972; amended in R74-2 and R75-5, 32 PCB 295, at 3 Ill. Reg. 5, p. 777, effective February 3, 1979; amended in R78-3 and 4, 35 PCB 75 and 243, at 3 Ill. Reg. 30, p. 124, effective July 28, 1979; amended in R80-5, at 7 Ill. Reg. 1244, effective January 21, 1983; codified at 7 Ill. Reg. 13590; amended in R82-1 (Docket A) at 10 Ill. Reg. 12624, effective July 7, 1986; amended in R85-21(A) at 11 Ill. Reg. 11747, effective June 29, 1987; amended in R86-34 at 11 Ill. Reg. 12267, effective July 10, 1987; amended in R86-39 at 11 Ill. Reg. 20804, effective December 14, 1987; amended in R82-14 and R86-37 at 12 Ill. Reg. 787, effective December 24, 1987; amended in R86-18 at 12 Ill. Reg. 7284, effective April 8, 1988; amended in R86-10 at 12 Ill. Reg. 7621, effective April 11, 1988; amended in R88-23 at 13 Ill. Reg. 10862, effective June 27, 1989; amended in R89-8 at 13 Ill. Reg. 17457, effective January 1, 1990; amended in R89-16(A) at 14 Ill. Reg. 9141, effective May 23, 1990; amended in R88-30(B) at 15 Ill. Reg. 5223, effective March 28, 1991; amended in R88-14 at 15 Ill. Reg. 7901, effective May 14, 1991; amended in R91-10 at 15 Ill. Reg. 15564, effective October 11, 1991; amended in R91-6 at 15 Ill. Reg. 15673, effective October 14, 1991; amended in R91-22 at 16 Ill. Reg. 7656, effective May 1, 1992; amended in R91-24 at 16 Ill. Reg. 13526, effective August 24, 1992; amended in R93-9 at 17 Ill. Reg. 16504, effective September 27, 1993; amended in R93-11 at 17 Ill. Reg. 21471, effective December 7, 1993; amended in R93-14 at 18 Ill. Reg. 1253, effective January 18, 1994; amended in R94-12 at 18 Ill. Reg. 14962, effective September 21, 1994; amended in R94-14 at 18 Ill. Reg. 15744, effective October 17, 1994; amended in R94-15 at 18 Ill. Reg. 16379, effective October 2, 1994; amended in R94-16 at 18 Ill. Reg. _____, effective _____; amended in R94-31 at 18 Ill. Reg. _____, effective _____.

SUBPART B: DEFINITIONS

Section 211.474 Alcohol

"Alcohol," for the purposes of Sections 218.405 through 218.410 and 219.405 through 219.410, means isopropyl alcohol, normal propyl alcohol, or ethanol used in a fountain solution in a lithographic printing operation.

(Source: Added at _____ Ill. Reg. _____, effective _____)

Section 211.560 As-Applied Fountain Solution

"As-applied fountain solution," means the formulation of a fountain solution during application onto the image plate on a lithographic printing line, including any material added at the line before the application of the fountain solution.

(Source: Added at _____ Ill. Reg. _____, effective _____)

Section 211.2850 Heatset Web Offset Lithographic Printing Line

"Heatset web offset lithographic printing line" means a lithographic printing line in which a blanket cylinder is used to transfer ink from a plate cylinder to a substrate continuously fed from a roll or an extension process and an oven is used to solidify the printing inks.

(Source: Amended at _____ Ill. Reg. _____, effective _____)

Section 211.4065 Non-Heatset

"Non-heatset" means a class of lithography which does not require a heated dryer to solidify the printing inks. Ultraviolet-cured and electron beam-cured inks are considered non-heatset.

(Source: Added at _____ Ill. Reg. _____, effective _____)

Section 211.5980 Sheet-Fed

"Sheet-fed" means a printing or coating line where individual sheets of substrate are fed to the line sequentially.

(Source: Added at _____ Ill. Reg. _____, effective _____)

TITLE 35: ENVIRONMENTAL PROTECTION
SUBTITLE B: AIR POLLUTION
CHAPTER I: POLLUTION CONTROL BOARD
SUBCHAPTER c: EMISSIONS STANDARDS AND LIMITATIONS
FOR STATIONARY SOURCES

PART 218
ORGANIC MATERIAL EMISSION STANDARDS AND LIMITATIONS FOR THE
CHICAGO AREA

SUBPART A: GENERAL PROVISIONS

Section	
218.100	Introduction
218.101	Savings Clause
218.102	Abbreviations and Conversion Factors
218.103	Applicability
218.104	Definitions
218.105	Test Methods and Procedures
218.106	Compliance Dates
218.107	Operation of Afterburners
218.108	Exemptions, Variations, and Alternative Means of Control or Compliance Determinations
218.109	Vapor Pressure of Volatile Organic Liquids
218.110	Vapor Pressure of Organic Material or Solvents
218.111	Vapor Pressure of Volatile Organic Material
218.112	Incorporations by Reference
218.113	Monitoring for Negligibly-Reactive Compounds
218.114	Compliance with Permit Conditions

SUBPART B: ORGANIC EMISSIONS FROM STORAGE AND LOADING OPERATIONS

Section	
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218.121	Storage Containers
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218.124	External Floating Roofs
218.125	Compliance Dates (Repealed)
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218.141	Separation Operations
218.142	Pumps and Compressors
218.143	Vapor Blowdown
218.144	Safety Relief Valves

SUBPART E: SOLVENT CLEANING

Section	
218.181	Solvent Cleaning in General
218.182	Cold Cleaning
218.183	Open Top Vapor Degreasing
218.184	Conveyorized Degreasing
218.185	Compliance Schedule (Repealed)
218.186	Test Methods

SUBPART F: COATING OPERATIONS

Section	
218.204	Emission Limitations
218.205	Daily-Weighted Average Limitations
218.206	Solids Basis Calculation
218.207	Alternative Emission Limitations
218.208	Exemptions from Emission Limitations
218.209	Exemption from General Rule on Use of Organic Material
218.210	Compliance Schedule
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SUBPART G: USE OF ORGANIC MATERIAL

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218.301	Use of Organic Material
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218.402	Applicability
218.403	Compliance Schedule
218.404	Recordkeeping and Reporting
218.405	Heatset-Web-Offset Lithographic Printing: Applicability
218.406	<u>Provisions Applying to Heatset Web Offset Lithographic Printing Prior to March 15, 1996</u>
218.407	<u>Emission Limitations and Control Requirements for Lithographic Printing Lines On and After March 15, 1996</u>
218.408	<u>Compliance Schedule for Lithographic Printing On and After March 15, 1996</u>
218.409	<u>Testing for Lithographic Printing On and After March 15, 1996</u>
218.410	<u>Monitoring Requirements for Lithographic Printing</u>
218.411	<u>Recordkeeping and Reporting for Lithographic Printing</u>
218.412	<u>Recordkeeping and Reporting for Fountain and Cleaning Solution Stricter Limits</u>

SUBPART Q: LEAKS FROM SYNTHETIC
ORGANIC CHEMICAL AND POLYMER
MANUFACTURING PLANT

Section	
218.421	General Requirements
218.422	Inspection Program Plan for Leaks
218.423	Inspection Program for Leaks
218.424	Repairing Leaks
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218.428	Open-Ended Valves
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RELATED INDUSTRIES; ASPHALT MATERIALS

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218.441	Petroleum Refinery Waste Gas Disposal
218.442	Vacuum Producing Systems
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218.445	Leaks: General Requirements
218.446	Monitoring Program Plan for Leaks
218.447	Monitoring Program for Leaks
218.448	Recordkeeping for Leaks
218.449	Reporting for Leaks
218.450	Alternative Program for Leaks
218.451	Sealing Device Requirements
218.452	Compliance Schedule for Leaks
218.453	Compliance Dates (Repealed)

SUBPART S: RUBBER AND MISCELLANEOUS PLASTIC PRODUCTS

Section	
218.461	Manufacture of Pneumatic Rubber Tires
218.462	Green Tire Spraying Operations
218.463	Alternative Emission Reduction Systems
218.464	Emission Testing
218.465	Compliance Dates (Repealed)
218.466	Compliance Plan (Repealed)

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AUTHORITY: Implementing Section 10 and authorized by Section 28.5 of the Environmental Protection Act (Ill. Rev. Stat. 1991, ch. 111½, par. 1010) (P.A. 87-1213, effective September 26, 1992) [415 ILCS 5/10 and 28.5].

SOURCE: Adopted at R91-7 at 15 Ill. Reg. 12231, effective August 16, 1991; amended in R91-23 at 16 Ill. Reg. 13564, effective August 24, 1992; amended in R91-28 and R91-30 at 16 Ill. Reg. 13864, effective August 24, 1992; amended in R93-9 at 17 Ill. Reg. 16636, effective September 27, 1993; amended in R93-14 at 18 Ill. Reg. at 1945, effective January 24, 1994; amended in R94-12 at 18 Ill. Reg. 14973, effective September 21, 1994; amended in R94-15 at 18 Ill. Reg. 16392, effective October 25, 1994; amended in R94-16 at 18 Ill. Reg. _____, effective _____; amended in R94-31 at _____ Ill. Reg. _____, effective _____.

SUBPART H: PRINTING AND PUBLISHING

Section 218.405 ~~Heatset Web Offset~~ Lithographic Printing: Applicability

a) Applicability

1a) Until March 15, 1996, the limitations of subsection (b) below Section 218.406 of this Subpart apply to all heatset web offset lithographic printing lines (including solvents used for cleanup operations associated with the heatset web offset lithographic printing line(s)) at a ~~subject~~ source subject to the requirements of this Subpart. All sources with heatset web offset lithographic printing lines are ~~subject~~ sources subject to the requirements of this Subpart unless:

- A1) Total maximum theoretical emissions of VOM from all heatset web offset lithographic printing lines (including solvents used for cleanup operations associated with the heatset web offset lithographic printing line(s)) at the source never exceed 90.7 Mg (100 tons) per calendar year in the absence of air pollution control equipment; or
- B2) A federally enforceable permit or SIP revision for all heatset web offset lithographic printing line(s) at a source requires the owner or operator to limit production or capacity of these printing line(s) to reduce total VOM emissions from all heatset web offset lithographic printing line(s)

to 90.7 Mg (100 tons) per calendar year or less in the absence of air pollution control equipment. 7
and

- 2b) Any owner or operator of any heatset web offset lithographic printing line that is exempt from the limitations in ~~subsection (b) of this Section 218.406 of this Subpart~~ because of the criteria in subsection (a)(1) of this Section shall be subject to the recordkeeping and reporting requirements in ~~subsection (e)(1) of this Section 218.406(b)(1) of this Subpart.~~
- ~~b) Specific Provisions. No owner or operator of a subject heatset web offset printing line may cause or allow the operation of the subject heatset web offset printing line unless the owner or operator meets the requirements in subsections (b)(1) or (b)(2) and the requirements in subsections (b)(3) and (b)(4) below.~~
- ~~1) An afterburner system is installed and operated that reduces 90 percent of the VOM emissions from the dryer exhaust, or~~
 - ~~2) The fountain solution contains no more than 8 percent, by weight, of VOM and a condensation recovery system is installed and operated that removes at least 75 percent of the non-isopropyl alcohol organic materials from the dryer exhaust, and~~
 - ~~3) The control device is equipped with the applicable monitoring equipment specified in Section 218.105(d)(2) of this Part and the monitoring equipment is installed, calibrated, operated and maintained according to vendor specifications at all times the control device is in use, and~~
 - ~~4) The control device is operated at all times when the subject printing line is in operation. The owner or operator shall demonstrate compliance with this Section by using the applicable test methods and procedures specified in Section 218.105(a), (d), and (f) of this Part and by complying with the recordkeeping and reporting requirements specified in subsection (e) below.~~
- ~~e) Recordkeeping and Reporting. The VOM content of each fountain solution and ink and the efficiency of each control device shall be determined by the applicable test methods and procedures specified in Section 218.105 of this Part to establish the records required under this subsection.~~

~~1) Any owner or operator of a printing line which is exempted from the limitations of subsection (b) of this Section because of the criteria in subsection (a) of this Section shall comply with the following:~~

~~A) By a date consistent with Section 218.106 of this Part, the owner or operator of a heatset web offset lithographic printing line to which subsection (c)(1) of this Section is applicable shall certify to the Agency that the heatset web offset lithographic printing line is exempt under the provisions of subsection (a) of this Section. Such certification shall include:~~

~~i) A declaration that the heatset web offset lithographic printing line is exempt from the limitations of subsection (b) of this Section because of the criteria in subsection (a) of this Section, and~~

~~ii) Calculations which demonstrate that total maximum theoretical emissions of VOM from all heatset web offset lithographic printing lines at the source never exceed 90.7 Mg (100 tons) per calendar year before the application of air pollution control equipment. Total maximum theoretical emissions of VOM for a heatset web offset lithographic printing source is the sum of maximum theoretical emissions of VOM from each heatset web offset lithographic printing line at the source. The following equation shall be used to calculate total maximum theoretical emissions of VOM per calendar year in the absence of air pollution control equipment for each heatset web offset lithographic printing line at the source.~~

$$E_p = \frac{(A \times B) + (C \times D) + 1095 (F \times G \times H)}{100}$$

where:

~~E_p = Total maximum theoretical emissions of VOM from one~~

~~heatset web offset printing
line in units of kg/year
(lbs/year);~~

- ~~A — = — Weight of VOM per volume of
solids of ink with the highest
VOM content as applied each
year on the printing line in
units of kg VOM/l (lbs
VOM/gal) of solids;~~
- ~~B — = — Total volume of solids for all
inks that can potentially be
applied each year on the
printing line in units of
l/year (gal/year). The
instrument or method by which
the owner or operator
accurately measured or
calculated the volume of each
ink as applied and the amount
that can potentially be
applied each year on the
printing line shall be
described in the certification
to the Agency;~~
- ~~C — = — The weight percent VOM of the
fountain solution with the
highest VOM content;~~
- ~~D — = — The total volume of fountain
solution that can potentially
be used each year on the
printing line in units of
l/year (gal/year). The
instrument and/or method by
which the owner or operator
accurately measured or
calculated the volume of each
fountain solution used and the
amount that can potentially be
used each year on the printing
line shall be described in the
certification to the Agency;~~
- ~~F — = — Weight of VOM per volume of
material for the cleanup
material or solvent with the
highest VOM content as used
each year on the printing line
in units of Kg/l (lbs VOM/gal)~~

~~of such material;~~

~~G = The greatest volume of cleanup material or solvent used in any 8-hour period and~~

~~H = The highest fraction of cleanup material or solvent which is not recycled or recovered for offsite disposal during any 8-hour period.~~

~~B) On and after a date consistent with Section 218.106 of this Part, the owner or operator of a heatset web offset lithographic printing line to which subsection (c)(1) of this Section is applicable shall collect and record all of the following information each year for each printing line and maintain the information at the source for a period of three years:~~

~~i) The name and identification of each fountain solution and ink as applied on each printing line.~~

~~ii) The VOM content and the volume of each fountain solution and ink as applied each year on each printing line.~~

~~C) On and after a date consistent with Section 218.106 of this Part, the owner or operator of a source exempted from the limitations of subsection (b) of this Section because of the criteria in subsection (a) of this Section shall notify the Agency of any record showing that total maximum theoretical emissions of VOM from all printing lines exceed 90.7 Mg (100 tons) in any calendar year in the absence of air pollution control equipment by sending a copy of such record to the Agency within 30 days after the exceedance occurs.~~

~~2) Any owner or operator of a printing line subject to the limitations of subsection (b) of this Section and complying by means of subsection (b)(1) of this Section shall comply with the following:~~

~~A) By a date consistent with Section 218.106 of this Part, or upon initial start-up of a new printing line, or upon changing the method of~~

~~compliance for an existing printing line from subsection (b)(2) to subsection (b)(1) of this Section; the owner or operator of the subject printing line shall perform all tests and submit to the Agency the results of all tests and calculations necessary to demonstrate that the subject printing line will be in compliance with subsection (b)(1) of this Section on and after a date consistent with Section 218.106 of this Part, or on and after the initial start-up date.~~

~~B) On and after a date consistent with Section 218.106 of this Part, or on and after the initial start-up date, the owner or operator of a printing line subject to the limitations of subsection (b) of this Section and complying by means of subsection (b)(1) of this Section shall collect and record the following information each day for each printing line and maintain the information at the source for a period of three years:~~

~~i) Control device monitoring data.~~

~~ii) A log of operating time for the control device, monitoring equipment and the associated printing line.~~

~~iii) A maintenance log for the control device and monitoring equipment detailing all routine and nonroutine maintenance performed including dates and duration of any outages.~~

~~C) On and after a date consistent with Section 218.106 of this Part, the owner or operator of a subject printing line shall notify the Agency in the following instances:~~

~~i) Any record showing violation of subsection (b)(1) of this Section shall be reported by sending a copy of such record to the Agency within 30 days following the occurrence of the violation.~~

~~ii) At least 30 calendar days before changing the method of compliance with subsection (b) of this Section from subsection (b)(1) to (b)(2) of this Section, the owner or operator shall~~

~~comply with all requirements of subsection (c)(3)(A) of this Section. Upon changing the method of compliance with subsection (b) of this Section from subsection (b)(1) to (b)(2) of this Section, the owner or operator shall comply with all requirements of subsection (c)(3) of this Section.~~

- ~~3) Any owner or operator of a printing line subject to the limitations of subsection (b) of this Section and complying by means of subsection (b)(2) of this Section shall comply with the following:~~
- ~~A) By a date consistent with Section 218.106 of this Part, or upon initial start-up of a new printing line, or upon changing the method of compliance for an existing printing line from subsection (b)(1) to (b)(2) of this Section, the owner or operator of the subject printing line shall perform all tests and submit to the Agency and the USEPA the results of all tests and calculations necessary to demonstrate that the subject printing line will be in compliance with subsection (b)(2) of this Section on and after a date consistent with Section 218.106 of this Part, or on and after the initial start-up date.~~
 - ~~B) On and after a date consistent with Section 218.106 of this Part, or on and after the initial start-up date, the owner or operator of a printing line subject to the limitations of subsection (b) of this Section and complying by means of subsection (b)(2) of this Section shall collect and record the following information each day for each printing line and maintain the information at the source for a period of three years:~~
 - ~~i) The VOM content of the fountain solution used each day on each printing line.~~
 - ~~ii) A log of operating time for the control device and the associated printing line.~~
 - ~~iii) A maintenance log for the control device detailing all routine and non-routine maintenance performed including dates and duration of any outages.~~

- ~~c) On and after a date consistent with Section 218.106 of this Part, the owner or operator of a subject printing line shall notify the Agency in the following instances:~~
- ~~i) Any record showing violation of subsection (b)(2) shall be reported by sending a copy of such record to the Agency within 30 days following the occurrence of the violation.~~
 - ~~ii) At least 30 calendar days before changing the method of compliance with subsection (b) of this Section from subsection (b)(2) to subsection (b)(1) of this Section, the owner or operator shall comply with all requirements of subsection (c)(2)(A) of this Section. Upon changing the method of compliance with subsection (b) of this Section from subsection (b)(2) to subsection (b)(1) of this Section, the owner or operator shall comply with all requirements of subsection (c)(2) of this Section.~~
- ~~d) Compliance Schedule. Every owner or operator of a heatset web offset lithographic printing line shall comply with the applicable requirements of subsections (b) and (c) of this Section in accordance with the applicable compliance schedule specified in subsections (d)(1), (d)(2), or (d)(3) below:~~
- ~~1) No owner or operator of a heatset web offset lithographic printing line which is exempt from the limitations of subsection (b) of this Section because of the criteria in subsection (a) of this Section shall operate said printing line on or after a date consistent with Section 218.106 of this Part, unless the owner or operator has complied with, and continues to comply with, subsections (a)(1) and (c)(1) of this Part.~~
 - ~~2) No owner or operator of a heatset web offset lithographic printing line complying by means of subsection (b)(1) of this Section shall operate said printing line on or after a date consistent with Section 218.106 of this Part, unless the owner or operator has complied with, and continues to comply with, subsections (b)(1), (b)(3), (b)(4) and (c)(2) of this Section.~~
 - ~~3) No owner or operator of a heatset web offset~~

~~lithographic printing line complying by means of subsection (b)(2) of this Section shall operate said printing line on or after a date consistent with Section 218.106 of this Part, unless the owner or operator has complied with, and continues to comply with, subsections (b)(2), (b)(3), (b)(4) and (c)(3) of this Section.~~

- c) On and after March 15, 1996, every owner or operator of lithographic printing line(s) is subject to the recordkeeping and reporting requirements in Section 218.411, and, if applicable, Section 218.412 of this Subpart.
- d) On and after March 15, 1996, Sections 218.407 through 218.412 of this Subpart shall apply to:
- 1) All owners or operators of heatset web offset lithographic printing line(s) unless:
 - A) Total maximum theoretical emissions of VOM from all heatset web offset lithographic printing lines (including solvents used for cleanup operations associated with heatset web offset printing lines) at the source never exceed 90.7 Mg (100 tons) per calendar year before the application of capture systems and control devices. To determine a source's total maximum theoretical emissions of VOM for the purposes of this subsection, the owner or operator shall use the calculations set forth in Section 218.406(b)(1)(A)(ii) of this Subpart; or
 - B) Federally enforceable permit conditions or SIP revision for all heatset web offset lithographic printing line(s) at the source requires the owner or operator to limit production or capacity of these printing line(s) to total VOM emissions of 90.7 Mg/yr (100 TPY) or less, before the application of capture systems and control devices;
 - 2) All owners or operators of heatset web offset, non-heatset web offset, or sheet-fed offset lithographic printing line(s), unless the combined actual emissions of VOM from all lithographic printing line(s) at the source (including solvents used for cleanup operations associated with the lithographic printing line(s)) never exceed 45.5 kg/day (100 lbs/day), as determined in accordance with Section 218.411(a)(1)(B), before the

application of capture systems and control devices.

- e) If a lithographic printing line at a source is or becomes subject to one or more of the limitations in Sections 218.406 or 218.407 of this Subpart, the lithographic printing line(s) at the source are always subject to the applicable provisions of this Subpart.

(Source: Amended at _____ Ill. Reg. _____, effective _____).

Section 218.406 Provisions Applying to Heatset Web Offset Lithographic Printing Prior to March 15, 1996

- a) Emission Standards and Limitations. No owner or operator of a heatset web offset printing line at a source that meets or exceeds the applicability levels in Section 218.405(a) of this Subpart may cause or allow the operation of such heatset web offset printing line(s) unless the owner or operator meets the requirements in subsections (a)(1) or (a)(2) of this Section and the requirements in subsections (a)(3) and (a)(4) of this Section. The owner or operator shall demonstrate compliance with this Section by using the applicable test methods and procedures specified in Section 218.105(a), (d), and (f) of this Part and by complying with the recordkeeping and reporting requirements specified in subsection (b) of this Section.
- 1) An afterburner system is installed and operated that reduces 90 percent of the VOM emissions from the dryer exhaust; or
 - 2) The fountain solution contains no more than 8 percent, by weight, of VOM and a condensation recovery system is installed and operated that removes at least 75 percent of the non-isopropyl alcohol organic materials from the dryer exhaust; and
 - 3) The control device is equipped with the applicable monitoring equipment specified in Section 218.105(d)(2) of this Part and the monitoring equipment is installed, calibrated, operated and maintained according to manufacturer's specifications at all times when the control device is in use; and
 - 4) The control device is operated at all times when the printing line is in operation.

- b) Recordkeeping and Reporting. The VOM content of each fountain solution and ink and the efficiency of each control device shall be determined by the applicable test methods and procedures specified in Section 218.105 of this Part to establish the records required under this subsection.
- 1) Any owner or operator of a lithographic printing line which is exempted from the limitations of subsection (a) of this Section because of the criteria in 218.405(a) of this Subpart shall comply with the following:
- A) By a date consistent with Section 218.106 of this Part, the owner or operator of a heatset web offset lithographic printing line to which subsection (b)(1) of this Section is applicable shall certify to the Agency that the heatset web offset lithographic printing line is exempt under the provisions of Section 218.405(a) of this Subpart. Such certification shall include:
- i) A declaration that the heatset web offset lithographic printing line is exempt from the limitations of subsection (a) of this Section because of the criteria in Section 218.405(a) of this Subpart; and
- ii) Calculations which demonstrate that total maximum theoretical emissions of VOM from all heatset web offset lithographic printing lines at the source never exceed 90.7 Mg (100 tons) per calendar year before the application of air pollution control equipment. Total maximum theoretical emissions of VOM for a heatset web offset lithographic printing source is the sum of maximum theoretical emissions of VOM from each heatset web offset lithographic printing line at the source. The following equation shall be used to calculate total maximum theoretical emissions of VOM per calendar year in the absence of air pollution control equipment for each heatset web offset lithographic printing line at the source:

$$E_p = \frac{(A \times B) + (C \times D) + 1095 (F \times G \times H)}{100}$$

where:

- E_p = Total maximum theoretical emissions of VOM from one heatset web offset printing line in units of kg/yr (lbs/yr);
- A = Weight of VOM per volume of solids of ink with the highest VOM content as applied each year on the printing line in units of kg VOM/l (lbs VOM/gal) of solids;
- B = Total volume of solids for all inks that can potentially be applied each year on the printing line in units of l/year (gal/yr). The instrument or method by which the owner or operator accurately measured or calculated the volume of each ink as applied and the amount that can potentially be applied each year on the printing line shall be described in the certification to the Agency;
- C = The weight percent VOM of the fountain solution with the highest VOM content;
- D = The total volume of fountain solution that can potentially be used each year on the printing line in units of l/yr (gal/yr). The instrument and/or method by which the owner or operator accurately measured or calculated the volume of each fountain solution used and the amount that can potentially be used each year on the printing line shall be described in the

certification to the Agency;

F = Weight of VOM per volume of material for the cleanup material or solvent with the highest VOM content as used each year on the printing line in units of Kg/l (lbs VOM/gal) of such material;

G = The greatest volume of cleanup material or solvent used in any 8-hour period; and

H = The highest fraction of cleanup material or solvent which is not recycled or recovered for offsite disposal during any 8-hour period.

B) On and after a date consistent with Section 218.106 of this Part, the owner or operator of a heatset web offset lithographic printing line to which subsection (b)(1) of this Section is applicable shall collect and record all of the following information each year for each printing line and maintain the information at the source for a period of three years:

i) The name and identification of each fountain solution and ink as applied on each printing line; and

ii) The VOM content and the volume of each fountain solution and ink as applied each year on each printing line.

C) On and after a date consistent with Section 218.106 of this Part, the owner or operator of a source exempted from the limitations of subsection (a) of this Section because of the criteria in Section 218.405(a) of this Subpart shall notify the Agency of any record showing that total maximum theoretical emissions of VOM from all heatset web offset printing lines exceed 90.7 Mg (100 tons) in any calendar year in the absence of air pollution control equipment by sending a copy of such record to the Agency within 30 days after the exceedance occurs.

- 2) Any owner or operator of a printing line subject to the limitations of subsection (a) of this Section and complying by means of subsection (a)(1) of this Section shall comply with the following:
- A) By a date consistent with Section 218.106 of this Part, or upon initial start-up of a new printing line, or upon changing the method of compliance for an existing printing line from subsection (a)(2) to subsection (a)(1) of this Section, perform all tests and submit to the Agency the results of all tests and calculations necessary to demonstrate that the subject printing line will be in compliance with subsection (a)(1) of this Section on and after a date consistent with Section 218.106 of this Part, or on and after the initial start-up date;
- B) On and after a date consistent with Section 218.106 of this Part, or on and after the initial start-up date, collect and record the following information each day for each printing line and maintain the information at the source for a period of three years:
- i) Control device monitoring data;
 - ii) A log of operating time for the control device, monitoring equipment and the associated printing line; and
 - iii) A maintenance log for the control device and monitoring equipment detailing all routine and nonroutine maintenance performed including dates and duration of any outages;
- C) On and after a date consistent with Section 218.106 of this Part, notify the Agency in the following instances:
- i) Any violation of subsection (a)(1) of this Section shall be reported to the Agency, in writing, within 30 days following the occurrence of the violation;
 - ii) Any record showing a violation of subsection (a)(1) of this Section shall be reported by sending a copy of such

record to the Agency within 30 days following the occurrence of the violation; and

iii) At least 30 calendar days before changing the method of compliance with subsection (a) of this Section from subsection (a)(1) to (a)(2) of this Section, the owner or operator shall comply with all requirements of subsection (b)(3)(A) of this Section. Upon changing the method of compliance with subsection (a) of this Section from subsection (a)(1) to subsection (a)(2) of this Section, the owner or operator shall comply with all requirements of subsection (b)(3) of this Section.

3) Any owner or operator of a printing line subject to the limitations of subsection (a) of this Section and complying by means of subsection (a)(2) of this Section shall:

A) By a date consistent with Section 218.106 of this Part, or upon initial start-up of a new printing line, or upon changing the method of compliance for an existing printing line from subsection (a)(1) to subsection (a)(2) of this Section, perform all tests and submit to the Agency and the USEPA the results of all tests and calculations necessary to demonstrate that the subject printing line will be in compliance with subsection (a)(2) of this Section on and after a date consistent with Section 218.106 of this Part, or on and after the initial start-up date;

B) On and after a date consistent with Section 218.106 of this Part, or on and after the initial start-up date, collect and record the following information each day for each printing line and maintain the information at the source for a period of three years:

i) The VOM content of the fountain solution used each day on each printing line;

ii) A log of operating time for the control device and the associated printing line; and

iii) A maintenance log for the control device

detailing all routine and non-routine maintenance performed including dates and duration of any outages;

C) On and after a date consistent with Section 218.106 of this Part, notify the Agency in the following instances:

i) Any violation of subsection (a)(2) shall be reported to the Agency, in writing, within 30 days following the occurrence of the violation;

ii) Any record showing a violation of subsection (a)(2) of this Section shall be reported by sending a copy of such record to the Agency within 30 day following the occurrence of the violation; and

iii) At least 30 calendar days before changing the method of compliance with subsection (a) of this Section from subsection (a)(2) to subsection (a)(1) of this Section, the owner or operator shall comply with all requirements of subsection (b)(2)(A) of this Section. Upon changing the method of compliance with subsection (a) of this Section from subsection (a)(2) to subsection (a)(1) of this Section, the owner or operator shall comply with all requirements of subsection (b)(2) of this Section.

c) Compliance Schedule. Every owner or operator of a heatset web offset lithographic printing line shall comply with the applicable requirements of subsections (a) and (b) of this Section in accordance with the applicable compliance schedule specified in subsections (c)(1), (c)(2), or (c)(3) of this Section:

1) No owner or operator of a heatset web offset lithographic printing line which is exempt from the limitations of subsection (a) of this Section because of the criteria in Section 218.405(a) of this Subpart shall operate said printing line on or after a date consistent with Section 218.106 of this Part, unless the owner or operator has complied with, and continues to comply with, Sections 218.405(a) and 218.406(b)(1) of this Subpart.

- 2) No owner or operator of a heatset web offset lithographic printing line complying by means of subsection (a)(1) of this Section shall operate said printing line on or after a date consistent with Section 218.106 of this Part, unless the owner or operator has complied with, and continues to comply with, subsections (a)(1), (a)(3), (a)(4) and (b)(2) of this Section.
- 3) No owner or operator of a heatset web offset lithographic printing line complying by means of subsection (a)(2) of this Section shall operate said printing line on or after a date consistent with Section 218.106 of this Part, unless the owner or operator has complied with, and continues to comply with, subsections (a)(2), (a)(3), (a)(4) and (b)(3) of this Section.

(Source: Added at _____ Ill. Reg. _____, effective _____)

Section 218.407 Emission Limitations and Control Requirements for Lithographic Printing Lines On and After March 15, 1996

- a) On and after March 15, 1996, no owner or operator of lithographic printing line(s) subject to the requirements of this Subpart shall:
- 1) Cause or allow the operation of any heatset web offset lithographic printing line unless:
- A) The total VOM content in the as-applied fountain solution meets one of the following conditions:
- i) 1.6 percent or less, by volume;
- ii) 3 percent or less, by volume, and the temperature of the fountain solution is maintained below 15.6°C (60°F), measured at the reservoir or the fountain tray;
or
- iii) 5 percent or less, by volume, and the as-applied fountain solution contains no alcohol;
- B) The air pressure in the dryer is maintained lower than the air pressure of the press room, such that air flow through all openings

in the dryer, other than the exhaust, is into the dryer at all times when the printing line is operating;

- C) An afterburner is installed and operated so that VOM emissions from the press dryer exhaust(s) are reduced by 90 percent, by weight, or to a maximum afterburner exhaust outlet concentration of 20 ppmv (as carbon);
 - D) The afterburner is equipped with the applicable monitoring equipment specified in Section 218.105(d)(2) of this Part and the monitoring equipment is installed, calibrated, operated, and maintained according to manufacturer's specifications at all times when the afterburner is in use; and
 - E) The afterburner is operated at all times when the printing line is in operation;
- 2) Cause or allow the operation of any non-heatset web offset lithographic printing line unless the VOM content of the as-applied fountain solution is 5 percent or less, by volume, and the as-applied fountain solution contains no alcohol;
- 3) Cause or allow the operation of any sheet-fed offset lithographic printing line unless:
- A) The VOM content of the as-applied fountain solution is 5 percent or less, by volume; or
 - B) The VOM content of the as-applied fountain solution is 8.5 percent or less, by volume, and the temperature of the fountain solution is maintained below 15.6°C (60°F), measured at the reservoir or the fountain tray;
- 4) Cause or allow the use of a cleaning solution on any lithographic printing line unless:
- A) The VOM content of the as-used cleaning solution is less than or equal to than 30 percent, by weight; or
 - B) The VOM composite partial vapor pressure of the as-used cleaning solution is less than 10 mmHg at 20°C (68°F);

- 5) Cause or allow VOM containing cleaning materials, including used cleaning towels, associated with any lithographic printing line to be kept, stored or disposed of in any manner other than in closed containers.
- b) An owner or operator of a heatset web offset lithographic printing line subject to the requirements of Section 218.407(a)(1)(C) of this Subpart may use a control device other than an afterburner, if:
- 1) The control device reduces VOM emissions from the press dryer exhaust(s) by at least 90 percent, by weight, or to a maximum control device exhaust outlet concentration of 20 ppmv (as carbon);
 - 2) The owner or operator submits a plan to the Agency detailing appropriate monitoring devices, test methods, recordkeeping requirements, and operating parameters for the control device; and
 - 3) The use of the control device with testing, monitoring, and recordkeeping in accordance with this plan is approved by the Agency and USEPA as federally enforceable permit conditions.

(Source: Added at _____ Ill. Reg. _____, effective _____)

Section 218.408 Compliance Schedule for Lithographic Printing On and After March 15, 1996

- a) Every owner or operator of a lithographic printing line subject to one or more of the control requirements of Section 218.407 of this Subpart shall comply with the applicable requirements of Sections 218.407 through 218.411, and, if applicable, 218.412 of this Subpart on and after March 15, 1996, or upon initial start-up, whichever is later.
- b) No owner or operator of a lithographic printing line which is exempt from the limitations of Section 218.407 of this Subpart because of the criteria in Section 218.405(d) of this Subpart, shall operate said printing line on or after March 15, 1996, unless the owner or operator has complied with, and continues to comply with, Sections 218.405(d) and 218.411(a) of this Subpart.

(Source: Added at _____ Ill. Reg. _____, effective _____)

Section 218.409 Testing for Lithographic Printing On and After March 15, 1996

- a) Testing to demonstrate compliance with the requirements of Section 218.407 of this Subpart shall be conducted by the owner or operator upon request of the Agency. Such testing shall be conducted at the expense of the owner or operator and the owner or operator shall notify the Agency in writing 30 days in advance of conducting such testing to allow the Agency to be present during such testing.
- b) The methods and procedures of Section 218.105(d) and (f) shall be used for testing to demonstrate compliance with the requirements of Section 218.407(a)(1)(C) or (b)(1) of this Subpart, as follows:
- 1) To select the sampling sites, Method 1 or 1A, as appropriate, 40 CFR 60, Appendix A, incorporated by reference at Section 218.112 of this Part. The sampling sites for determining efficiency in reducing VOM from the dryer exhaust shall be located between the dryer exhaust and the control device inlet, and between the outlet of the control device and the exhaust to the atmosphere;
 - 2) To determine the volumetric flow rate of the exhaust stream, Method 2, 2A, 2C, or 2D, as appropriate, 40 CFR 60, Appendix A, incorporated by reference at Section 218.112 of this Part;
 - 3) To determine the VOM concentration of the exhaust stream entering and exiting the control device, Method 25 or 25A, as appropriate, 40 CFR 60, Appendix A, incorporated by reference at Section 218.112 of this Part. For thermal and catalytic afterburners, Method 25 must be used except under the following circumstances, in which case Method 25A must be used:
 - A) The allowable outlet concentration of VOM from the control device is less than 50 ppmv, as carbon;
 - B) The VOM concentration at the inlet of the control device and the required level of control result in exhaust concentrations of VOM of 50 ppmv, or less, as carbon; and
 - C) Due to the high efficiency of the control device, the anticipated VOM concentration at the control device exhaust is 50 ppmv or

less, as carbon, regardless of inlet concentration. If the source elects to use Method 25A under this option, the exhaust VOM concentration must be 50 ppmv or less, as carbon, and the required destruction efficiency must be met for the source to have demonstrated compliance. If the Method 25A test results show that the required destruction efficiency apparently has been met, but the exhaust concentration is above 50 ppmv, as carbon, Method 25 must instead be used;

- 4) Notwithstanding the criteria or requirements in Method 25 which specifies a minimum probe temperature of 129°C (265°F), the probe must be heated to at least the gas stream temperature of the dryer exhaust, typically close to 176.7°C (350°F);
 - 5) During testing, the printing line(s) shall be operated at representative operating conditions and flow rates; and
 - 6) During testing, an air flow direction indicating device shall be used to demonstrate 100 percent emissions capture efficiency for the dryer in accordance with Section 218.407(a)(1)(B) of this Subpart.
- c) Testing to demonstrate compliance with the VOM content limitations in Section 218.407(a)(1)(A), (a)(2), (a)(3) and (a)(4)(A) of this Subpart, and to determine the VOM content of fountain solutions, fountain solution additives, cleaning solvents, cleaning solutions, and inks (pursuant to the requirements of Section 218.411(a)(1)(B) of this Subpart), shall be conducted upon request of the Agency, as follows:
- 1) The applicable test methods and procedures specified in Section 218.105(a) of this Part shall be used; provided, however, Method 24, incorporated by reference at Section 218.112 of this Part, shall be used to demonstrate compliance; or
 - 2) 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 Section 218.105(a) of this Part; provided, however, Method 24 shall be used to determine compliance.

- d) Testing to demonstrate compliance with the requirements of Section 218.407(b) of this Subpart shall be conducted as set forth in the owner or operator's plan approved by the Agency and USEPA as federally enforceable permit conditions pursuant to Section 218.407(b) of this Subpart.
- e) Testing to determine the composite partial vapor pressure of cleaning solvents, cleaning solvent concentrates, and as-used cleaning solutions shall be conducted in accordance with the applicable methods and procedures specified in Section 218.110 of this Part.

(Source: Added at _____ Ill. Reg. _____, effective _____)

Sections 218.410 Monitoring Requirements for Lithographic Printing

a) Fountain Solution Temperature

- 1) The owner or operator of any lithographic printing line(s) relying on the temperature of the fountain solution to demonstrate compliance shall install, maintain, and continuously operate a temperature monitor of the fountain solution in the reservoir or fountain tray, as applicable.
- 2) The temperature monitor must be capable of reading with an accuracy of 0.3°C or 0.5°F, and must be attached to an automatic, continuous recording device such as a strip chart, recorder, or computer, with at least the same accuracy, that is installed, calibrated and maintained in accordance with the manufacturer's specifications.

b) Fountain Solution VOM Content

- 1) The owner or operator of any lithographic printing line(s) subject to Section 218.407(a)(1)(A), (a)(2) or (a)(3) of this Subpart shall:
- A) For a fountain solution to which VOM is not added automatically, 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 shall determine compliance with the VOM content limitation of the as-applied fountain solution by using one of the following options:

i) 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

ii) 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;

B) 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 of 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.

2) The owner or operator of lithographic printing line(s) subject to Section 218.407(a)(1)(A), (a)(2) or (a)(3) of this Subpart may elect an alternative means of demonstrating compliance with the VOM content limit (e.g., an equivalent alternative recordkeeping system) that allows determination of compliance with at least equal frequency and reliability, if approved by the Agency and USEPA as federally enforceable permit conditions.

c) Afterburners For Heatset Web Offset Lithographic Printing Line(s)

If an afterburner is used to demonstrate compliance, the owner or operator of a heatset web offset lithographic printing line subject to Section 218.407(a)(1)(C) of this Subpart shall:

1) Install, calibrate, maintain, and operate temperature monitoring device(s) with an accuracy of 3°C or 5°F on the afterburner in accordance with Section 218.105(d)(2) of this Part and in accordance with the manufacturer's specifications. Monitoring shall be performed at all times when the afterburner is operating; and

2) Install, calibrate, operate and maintain, in accordance with manufacturer's specifications, a continuous recorder on the temperature monitoring device(s), such as a strip chart, recorder or computer, with at least the same accuracy as the temperature monitor.

d) Other Control Devices for Heatset Web Offset Lithographic Printing Line(s)

If a control device other than an afterburner is used to demonstrate compliance, the owner or operator of a heatset web offset lithographic printing line subject to this Subpart shall install, maintain, calibrate and operate such monitoring equipment as set forth in the owner or operator's plan approved by the Agency and USEPA pursuant to Section 218.407(b) of this Subpart.

e) Cleaning Solution

- 1) The owner or operator of any lithographic printing line relying on the VOM content of the cleaning solution to comply with Section 218.407(a)(4)(A) of this Subpart must:
 - A) For cleaning solutions that are prepared at the source with equipment that automatically mixes cleaning solvent and water (or other non-VOM):
 - i) Install, operate, maintain, and calibrate the automatic feed equipment in accordance with manufacturer's specifications to regulate the volume of each of the cleaning solvent and water (or other non-VOM), as mixed; and
 - ii) Pre-set the automatic feed equipment so that the consumption rates of the cleaning solvent and water (or other non-VOM), as applied, comply with Section 218.407(a)(4)(A) of this Subpart;
 - B) For cleaning solutions that are not prepared at the source with automatic feed equipment, keep records of the usage of cleaning solvent and water (or other non-VOM) as set forth in Section 218.411(d)(2), or, if applicable, 218.412(d)(2) of this Subpart.
- 2) The owner or operator of any lithographic printing line relying on the vapor pressure of the cleaning solution to comply with Section 218.407(a)(4)(B) of this Subpart must keep records for such cleaning solutions used on any such line(s) as set forth in Section 218.411(d)(2)(C), or, if applicable, Section 218.412(d)(2) of this Subpart.

(Source: Added at _____ Ill. Reg. _____, effective _____)

Section 218.411 Recordkeeping and Reporting for Lithographic Printing

- a) An owner or operator of lithographic printing line(s) exempt from the limitations of Section 218.407 of this Subpart because of the criteria in Section 218.405(d) of this Subpart shall comply with the following:

- 1) By March 15, 1996, upon initial start-up of a new lithographic printing line, and upon modification of a lithographic printing line, submit a certification to the Agency that includes:
 - A) A declaration that the source is exempt from the control requirements in Section 218.407 of this Part because of the criteria in Section 218.405(d) of this Subpart;
 - B) Calculations which demonstrate that combined actual emissions of VOM from all lithographic printing lines (including inks, fountain solutions, and solvents used for cleanup operations associated with the lithographic printing lines) at the source never exceed 45.5 kg/day (100 lbs/day) before the use of capture systems and control devices, as follows:
 - i) To calculate actual daily emissions of VOM, the owner or operator shall determine the monthly emissions of VOM from all lithographic printing lines at the source (including solvents used for cleanup operations associated with the lithographic printing lines) and divide this amount by the number of days during that calendar month that printing lines at the source were in operation;
 - ii) To determine the VOM content of the inks, fountain solution additives and cleaning solvents, the tests methods and procedures set forth in Section 218.409(c) of this Subpart shall be used;
 - iii) To determine VOM emissions from ink used on lithographic printing line(s) at the source, an emission adjustment factor of 0.05 shall be used in calculating emissions from all non-heatset inks, and a factor of 0.80 shall be used in calculating emissions from all heatset inks to account for VOM retention in the substrate. The VOM content of the ink, as used, shall be multiplied by this factor to determine the amount of VOM emissions from the use of ink on the printing line(s); and

- iv) To determine VOM emissions from fountain solutions and cleaning solvents used on lithographic printing line(s) at the source, no retention factor is used;
 - C) Either a declaration that the source, through federally enforceable permit conditions, has limited its maximum theoretical emissions of VOM from all heatset web offset lithographic printing lines (including solvents used for cleanup operations associated with heatset web offset printing lines) at the source to no more than 90.7 Mg (100 tons) per calendar year before the application of capture systems and control devices or calculations which demonstrate that the source's total maximum theoretical emissions of VOM do not exceed 90.7 Mg/yr (100 TPY). To determine the source's total maximum theoretical emissions for the purposes of this subsection, the owner or operator shall use the calculations set forth in Section 218.406(b)(1)(A)(ii) of this Subpart; and
 - D) A description and the results of all tests used to determine the VOM content of inks, fountain solution additives, and cleaning solvents, and a declaration that all such tests have been properly conducted in accordance with Section 218.409(c)(1) of this Subpart;
- 2) On and after March 15, 1996, collect and record all of the following information for each lithographic printing line at the source:
- A) The name and identification of each fountain solution additive, ink, and cleaning solvent used on each lithographic printing line, recorded each month;
 - B) A daily record which shows whether or not a printing line at the source was in operation on that day;
 - C) The VOM content and the volume of each fountain solution additive, ink, and cleaning solvent used on each lithographic printing line, recorded each month;
 - D) The total VOM emissions at the source each month, determined as the sum of the product

of usage and VOM content for each fountain solution additive, cleaning solvent, and ink (with the applicable VOM emission adjustment) used at the source, calculated each month; and

E) The actual VOM emissions in lbs/day for the month, calculated in accordance with Section 218.411(a)(1)(B);

3) On and after March 15, 1996, notify the Agency in writing if the combined actual emissions of VOM from all lithographic printing lines (including inks, fountain solutions, and solvents used for cleanup operations associated with the lithographic printing lines) at the source ever exceed 45.5 kg/day (100 lbs/day), before the use of capture systems and control devices, within 30 days after the event occurs. Such notification shall include a copy of all records of such event.

b) An owner or operator of a heatset web offset lithographic printing line(s) subject to the control requirements of Section 218.407(a)(1)(C) or (b)(1) of this Subpart shall comply with the following:

1) By March 15, 1996, upon initial start-up of a new printing line, and upon initial start-up of a new control device for a heatset web offset printing line, submit a certification to the Agency that includes the following:

A) An identification of each heatset web offset lithographic printing line at the source;

B) A declaration that each heatset web offset lithographic printing line is in compliance with the requirements of Section 218.407 (a)(1)(B), (a)(1)(C), (a)(1)(D) and (a)(1)(E) or (b) of this Subpart, as appropriate;

C) The type of afterburner or other approved control device used to comply with the requirements of Section 218.407(a)(1)(C) or (b)(1) of this Subpart;

D) The control requirements in Section 218.407(a)(1)(C) or (b)(1) of this Subpart with which the lithographic printing line is complying;

E) The results of all tests and calculations

necessary to demonstrate compliance with the control requirements of Section 218.407(a)(1)(C) or (b)(1) of this Subpart, as applicable; and

- F) A declaration that the monitoring equipment required under Section 218.407(a)(1)(D) or (b) of this Subpart, as applicable, has been properly installed and calibrated according to manufacturer's specifications;
- 2) If testing of the afterburner or other approved control device is conducted pursuant to Section 218.409(b) of this Subpart, the owner or operator shall, within 90 days of conducting such testing, submit a copy of all test results to the Agency and shall submit a certification to the Agency that includes the following:
- A) A declaration that all tests and calculations necessary to demonstrate whether or not the lithographic printing line(s) is in compliance with Section 218.407(a)(1)(C) or (b)(1) of this Subpart, as applicable, have been properly performed;
- B) A statement whether the lithographic printing line(s) is or is not in compliance with Section 218.407(a)(1)(C) or (b)(1) of this Subpart, as applicable; and
- C) The operating parameters of the afterburner or other approved control device during testing, as monitored in accordance with Section 218.410(c) or (d) of this Subpart, as applicable;
- 3) On and after March 15, 1996, collect and record daily the following information for each heatset web offset lithographic printing line subject to the requirements of Section 218.407(a)(1)(C) or (b)(1) of this Subpart:
- A) Afterburner or other approved control device monitoring data in accordance with Section 218.410(c) or (d) of this Subpart, as applicable;
- B) A log of operating time for the afterburner or other approved control device, monitoring equipment, and the associated printing line;

- C) A maintenance log for the afterburner or other approved control device and monitoring equipment detailing all routine and non-routine maintenance performed, including dates and duration of any outages; and
 - D) 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 Section 218.407(a)(1)(B) of this Subpart at least once per 24-hour period while the line is operating;
- 4) On and after March 15, 1996, notify the Agency in writing of any violation of Section 218.407(a)(1)(C) or (b)(1) of this Subpart within 30 days after the occurrence of such violation. Such notification shall include a copy of all records of such violation;
 - 5) If changing its method of compliance between subsections (a)(1)(C) and (b) of Section 218.407 of this Subpart, certify compliance for the new method of compliance in accordance with subsection (b)(1) of this Section at least 30 days before making such change, and perform all tests and calculations necessary to demonstrate that such printing line(s) will be in compliance with the requirements of Section 218.407(a)(1)(B), (a)(1)(C), (a)(1)(D) and (a)(1)(E) of this Subpart, or Section 218.407(b) of this Subpart, as applicable.
- c) An owner or operator of a lithographic printing line subject to Section 218.407(a)(1)(A), (a)(2), or (a)(3) of this Subpart, shall:
 - 1) By March 15, 1996, and upon initial start-up of a new lithographic printing line, certify to the Agency that fountain solutions used on each lithographic printing line will be in compliance with the applicable VOM content limitation. Such certification shall include:
 - A) Identification of each lithographic printing line at the source, by type, e.g., heatset web offset, non-heatset web offset, or sheet-fed offset;
 - B) The VOM content limitation with which each fountain solution will comply;

- C) Initial documentation that each type of fountain solution will comply with the applicable VOM content limitation, including copies of manufacturer's specifications, test results, if any, formulation data and calculations;
 - D) Identification of the method that will be used to demonstrate continuing compliance with the applicable limitation, e.g., a refractometer, hydrometer, conductivity meter, or alternative procedures with detailed description of the compliance methodology; and
 - E) A sample of the records that will be kept pursuant to Section 218.411(c)(2) of this Subpart.
- 2) On and after March 15, 1996, collect and record the following information for each fountain solution used on each lithographic printing line:
- A) The name and identification of each batch of fountain solution prepared for use on lithographic printing line(s), and the applicable VOM content limitation for the batch;
 - B) If an owner or operator uses a hydrometer, refractometer, or conductivity meter, pursuant to Section 218.410(b)(1)(A), to demonstrate compliance with the applicable VOM content limit in Section 218.407(a)(1)(A), (a)(2), or (a)(3) of this Subpart:
 - i) The date and time of preparation, and each subsequent modification, of the batch;
 - ii) The results of each measurement taken in accordance with Section 218.410(b) of this Subpart;
 - iii) 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

- iv) Documentation of the periodic temperature adjustment of the meter, including date and time of adjustment, personnel conducting and results;
- C) If the VOM content of the fountain solution is determined pursuant to Section 218.410(b)(2) of this Subpart, for each batch of as-applied fountain solution:
- i) Date and time of preparation and each subsequent modification of the batch;
 - ii) Calculated VOM content of the as-applied fountain solution; and
 - iii) Any other information necessary to demonstrate compliance with the applicable VOM content limits in Section 218.407(a)(1)(A), (a)(2) and (a)(3) of this Subpart, as specified in the source's operating permit;
- D) If the owner or operator relies on the temperature of the fountain solution to comply with the requirements in Section 218.407(a)(1)(A)(ii) or (a)(3)(B) of this Subpart:
- i) The temperature of the fountain solution at each printing line, as monitored in accordance with Section 218.410(a); and
 - ii) A maintenance log for the temperature monitoring devices detailing all routine and non-routine maintenance performed, including dates and duration of any outages;
- 3) Notify the Agency in writing of any violation of Section 218.407 of this Subpart within 30 days after the occurrence of such violation. Such notification shall include a copy of all records of such violation; and
- 4) If changing its method of demonstrating compliance with the applicable VOM content limitations in Section 218.407 of this Subpart, or changing the method of demonstrating compliance with the VOM content limitations for fountain solutions pursuant to Section 218.409 of this Subpart, certify compliance for such new method(s) in

accordance with subsection (c)(1) of this Section at least 30 days before 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 Section 218.407 of this Subpart.

d) For lithographic printing line cleaning operations, an owner or operator of a lithographic printing line subject to the requirements of Section 218.407 of this Subpart shall:

- 1) By March 15, 1996, or upon initial start-up of a new lithographic printing line, certify to the Agency that all cleaning solutions, and the handling of cleaning materials, will be in compliance with the requirements of Section 218.407(a)(4)(A) or (a)(4)(B) and (a)(5) of this Subpart, and such certification shall also include:
 - A) Identification of each VOM-containing cleaning solution used on each lithographic printing line;
 - B) The limitation with which each VOM-containing cleaning solution will comply, i.e., the VOM content or vapor pressure;
 - C) Initial documentation that each VOM-containing cleaning solution will comply with the applicable limitation, including copies of manufacturer's specifications, test results, if any, formulation data and calculations;
 - D) Identification of the method that will be used to demonstrate continuing compliance with the applicable limitations;
 - E) A sample of the records that will be kept pursuant to Section 218.411(d)(2) of this Subpart; and
 - F) A description of the practices that assure that VOM-containing cleaning materials are kept in closed containers;
- 2) On and after March 15, 1996, collect and record the following information for each cleaning solution used on each lithographic printing line:

- A) For each cleaning solution for which the owner or operator relies on the VOM content to demonstrate compliance with Section 218.407(a)(4)(A) of this Subpart and which is prepared at the source with automatic equipment:
- i) The name and identification of each cleaning solution;
 - ii) The VOM content of each cleaning solvent in the cleaning solution, as determined in accordance with Section 218.409(c) of this Subpart;
 - iii) Each change to the setting of the automatic equipment, with date, time, description of changes in the cleaning solution constituents (e.g., cleaning solvents), and a description of changes to the proportion of cleaning solvent and water (or other non-VOM);
 - iv) The proportion of each cleaning solvent and water (or other non-VOM) used to prepare the as-used cleaning solution;
 - v) The VOM content of the as-used cleaning solution, with supporting calculations; and
 - vi) A calibration log for the automatic equipment, detailing periodic checks;
- B) For each batch of cleaning solution for which the owner or operator relies on the VOM content to demonstrate compliance with Section 218.407(a)(4)(A) of this Subpart, and which is not prepared at the source with automatic equipment:
- i) The name and identification of each cleaning solution;
 - ii) Date and time of preparation, and each subsequent modification, of the batch;
 - iii) The VOM content of each cleaning solvent in the cleaning solution, as determined in accordance with Section 218.409(c) of this Subpart;

- iv) The total amount of each cleaning solvent and water (or other non-VOM) used to prepare the as-used cleaning solution; and
 - v) The VOM content of the as-used cleaning solution, with supporting calculations;
- C) For each batch of cleaning solution for which the owner or operator relies on the vapor pressure of the cleaning solution to demonstrate compliance with Section 218.407(a)(4)(B) of this Subpart:
- i) The name and identification of each cleaning solution;
 - ii) Date and time of preparation, and each subsequent modification, of the batch;
 - iii) The molecular weight, density, and VOM composite partial vapor pressure of each cleaning solvent, as determined in accordance with Section 218.409(e) of this Subpart;
 - iv) The total amount of each cleaning solvent used to prepare the as-used cleaning solution; and
 - v) The VOM composite partial vapor pressure of each as-used cleaning solution, as determined in accordance with Section 218.409(e) of this Subpart;
- D) 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;
- 3) On and after March 15, 1996, notify the Agency in writing of any violation of Section 218.407 of this Subpart within 30 days after the occurrence of such violation. Such notification shall include a copy of all records of such violation; and
- 4) If changing its method of demonstrating compliance with the requirements of Section 218.407(a)(4) of

this Subpart, or changing between automatic and manual methods of preparing cleaning solutions, certify compliance for such new method in accordance with subsection (d)(1) of this Section, at least 30 days before 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 Section 218.407(a)(4) of this Subpart;

- e) The owner or operator shall maintain all records required by this Section at the source for a minimum period of three years and shall make all records available to the Agency upon request.

(Source: Added at _____ Ill. Reg. _____,
effective _____)

Section 218.412 Recordkeeping and Reporting for Fountain and Cleaning Solution Stricter Limits

- a) An owner or operator of lithographic printing line(s) subject to the requirements of Section 218.407(a)(1)(A), (a)(2), or (a)(3) of this Subpart may elect to comply with the recordkeeping and reporting requirements of subsection (b) of this Section, rather than the recordkeeping and reporting requirements in Section 218.411(c) of this Subpart and the applicable monitoring requirements in Section 218.409 of this Subpart for each lithographic printing line that meets the following criteria:
- 1) The VOM content of the as-applied fountain solution is subject to federally enforceable permit conditions contained in the source's operating permit that limit the VOM content of the as-applied fountain solution to 75% or less of the applicable VOM content limit in Section 218.407(a)(1)(A), (a)(2), or (a)(3) of this Subpart. Each such as-applied fountain solution is hereinafter referred to as the "75% Fountain Solution";
 - 2) The owner or operator submits to the Agency six consecutive months of records of the type and with the information specified in Section 218.411(c)(2) of this Subpart demonstrating that the VOM content of the as-applied fountain solution would comply with the applicable 75% Fountain Solution VOM content limit, as specified in the source's operating permit; and

- 3) The owner or operator notifies the Agency in writing at least 45 days in advance of such change and submits a certification in accordance with subsection (b)(1) of this Section. Such notification shall include a summary of the records relied upon pursuant to subsection (a)(2) of this Section.
- b) The owner or operator electing to comply with subsections (a) and (b) of this Section shall for each lithographic printing line to which the 75% Fountain Solution is applied:
- 1) Certify to the Agency that each as-applied fountain solution complies with the applicable 75% Fountain Solution VOM content limit contained in the source's operating permit. Such certification shall include:
 - A) Identification of the lithographic printing line(s) at the source, by type, e.g., heatset web offset, non-heatset web offset, or sheet-fed offset, to which the 75% Fountain Solution is applied; and
 - B) The otherwise applicable VOM content limitation for each 75% Fountain Solution, as specified in Section 218.407(a)(1)(A), (a)(2), or (a)(3) of this Subpart;
 - 2) Collect and record the following information for each 75% Fountain Solution used on each lithographic printing line:
 - A) The name and identification of each 75% Fountain Solution, recorded each month;
 - B) The VOM content of each fountain solution additive in the 75% Fountain Solution, determined in accordance with Section 218.409(c) of this Subpart;
 - C) The total amount of each fountain solution additive and water (or other non-VOM) used to prepare the 75% Fountain Solution, recorded each month; and
 - D) The VOM content of the 75% Fountain Solution, calculated on a monthly basis, with supporting calculations;
 - 3) If the owner or operator also relies on the

temperature of the fountain solution to demonstrate compliance with Section 218.407(a)(1)(A)(ii) or (a)(3)(B) of this Subpart, collect and record the information specified in Section 218.411(c)(2)(D) of this Subpart; and

4) Notify the Agency in writing of any violation of a 75% Fountain Solution VOM content limit, within 30 days after the occurrence of such violation. Such notification shall include a copy of all records of such violation.

c) An owner or operator of lithographic printing line(s) subject to the requirements of Section 218.411(a)(4) of this Subpart may elect to comply with the recordkeeping and reporting requirements of subsection (d) of this Section, rather than the recordkeeping and reporting requirements in Section 218.411(d) of this Subpart and the applicable monitoring requirements in Section 218.409 of this Subpart for each lithographic printing line that meets the following criteria:

1) The VOM content or the VOM composite partial vapor pressure of the as-used cleaning solution, as applicable, is subject to federally enforceable permit conditions contained in the source's operating permit that limit the VOM content or the VOM composite partial vapor pressure of the as-used cleaning solution to 75% or less of the VOM content limit in Section 218.407(a)(4)(A) of this Subpart or to 75% or less of the VOM composite partial vapor pressure limit in Section 218.402(a)(4)(B) of this Subpart, respectively. Each such as-used cleaning solution is hereinafter referred to as the "75% Cleaning Solution;"

2) The owner or operator submits to the Agency six consecutive months of records of the type and with the information specified in Section 218.411(d)(2)(A), (d)(2)(B), or (d)(2)(C) of this Subpart, as applicable, demonstrating that the VOM content or the VOM composite partial vapor pressure (as applicable) of the as-used cleaning solution would comply with the applicable 75% Cleaning Solution VOM content limit or the VOM composite partial vapor pressure limit, as specified in the source's operating permit; and

3) The owner or operator notifies the Agency in writing at least 45 days in advance of such change and submits a certification in accordance with subsection (d)(1) of this Section. Such

notification shall include a summary of the records relied upon pursuant to the subsection (c)(2) of this Section.

- d) The owner or operator electing to comply with subsections (c) and (d) of this Section shall for each lithographic printing line on which the 75% Cleaning Solution is used:
- 1) Certify to the Agency that each as-used cleaning solution complies with the applicable 75% Cleaning Solution VOM content limit or VOM composite partial vapor pressure limit contained in the source's operating permit. Such certification shall include:
 - A) Identification of the lithographic printing line(s) at the source to which the 75% Cleaning Solution is applied; and
 - B) Whether the as-used cleaning solution achieves a VOM content limit or VOM composite partial vapor pressure that is 75% of the otherwise applicable limitation, as specified in Section 218.407(a)(4)(A) or (a)(4)(B), respectively;
 - 2) Collect and record the following information for 75% Cleaning Solution used on each lithographic printing line:
 - A) The name and identification of each 75% Cleaning Solution, recorded each month;
 - B) The VOM content or the VOM composite partial vapor pressure, as applicable, of each cleaning solvent in the 75% Cleaning Solution, determined in accordance with Section 218.409(e)(1) or (e)(2) of this Subpart, as applicable; and
 - C) The total amount of each cleaning solvent and water (or other non-VOM) used to prepare the 75% Cleaning Solution, record each month; and
 - D) The VOM content or the VOM composite partial vapor pressure, as applicable, of the 75% Cleaning Solution, calculated on a monthly basis, with supporting calculations;
 - 3) Notify the Agency in writing of any violation of a 75% Cleaning Solution VOM content limit or VOM

composite partial vapor pressure limit within 30 days after the occurrence of such violation. Such notification shall include a copy of all records of such violation.

- e) The owner or operator shall maintain all records required by this Section at the source for a minimum period of three years and shall make all records available to the Agency upon request.

(Source: Added at _____ Ill. Reg. _____,
effective _____)

SUBPART T: PHARMACEUTICAL MANUFACTURING

Section 218.480 Applicability

- a) The rules of this Subpart, except for Sections 218.483 through 218.485 of this Part, apply to all emission units of VOM, including but not limited to reactors, distillation units, dryers, storage tanks for VOL, equipment for the transfer of VOL, filters, crystallizers, washers, laboratory hoods, pharmaceutical coating operations, mixing operations and centrifuges used in manufacturing, including packaging, of pharmaceuticals and emitting more than 6.8 kg/day (15 lbs/day) and more than 2,268 kg/year (2.5 tons/year) of VOM. If such an emission unit emits less than 2,268 kg/year (2.5 tons/year) of VOM, the requirements of this Subpart still apply to the emission unit if VOM emissions from the emission unit exceed 45.4 kg/day (100 lbs/day).
- b) Notwithstanding subsection (a) of this Section, the air suspension coater/dryer, fluid bed dryers, tunnel dryers, and Accelacotas located in Libertyville Township, Lake County, Illinois shall be exempt from the rules of this Subpart, except for Sections 218.483 through 218.485, if emissions of VOM not vented to air pollution control equipment do not exceed the following levels:
- 1) For the air suspension coater/dryer: 2,268 kg/year (2.5 tons/year);
 - 2) For each fluid bed dryer: 4,535 kg/year (5.0 tons/year);
 - 3) For each tunnel dryer: 6,803 kg/year (7.5 tons/year) and
 - 4) For each Accelacota: 6,803 kg/year (7.5

tons/year).

- c) Sections 218.483 through 218.485 of this Part apply to a source having one or more emission units that:
 - 1) Are used to manufacture pharmaceuticals, and
 - 2) Emit more than 6.8 kg/day (15 lbs/day) of VOM and more than 2,268 kg/year (2.5 tons/year) of VOM, or, if less than 2,268 kg/year (2.5 tons/year), these Sections still apply if emissions from one or more sources exceed 45.4 kg/day (100 lbs/day).
- d) No owner or operator shall violate any condition in a permit when the condition results in exclusion of an emission unit from this Subpart.
- e) Any pharmaceutical manufacturing source that becomes subject to the provisions of this Subpart at any time shall remain subject to the provisions of this Subpart at all times.
- f) Emissions subject to this Subpart shall be controlled at all times consistent with the requirements set forth in this Subpart.
- g) Any control device required pursuant to this Subpart shall be operated at all times when the source it is controlling is operated.
- h) Determinations of daily and annual emissions for purposes of this Section shall be made using both data on the hourly emission rate (or the emissions per unit of throughput) and appropriate daily and annual data from records of emission unit operation (or material throughput or material consumption data). In the absence of representative test data pursuant to Section 218.487 of this Part for the hourly emission rate (or the emissions per unit of throughput) such items shall be calculated using engineering calculations, including the methods described in Appendix B of "Control of Volatile Organic Emissions from Manufacturing of Synthesized Pharmaceutical Products" (EPA-450/2-78-029), incorporated by reference in Section 218.112 of this Part.

(This subsection shall not affect the Agency's or the USEPA's authority to require emission tests to be performed pursuant to Section 218.487 of this Part.)
- i) Equipment and operations emitting VOM at a source subject to subsection (a) or (c) of this Section and

used to produce pharmaceutical products or a pharmaceutical-like product such as a hormone, enzyme, or antibiotic, shall be deemed to be engaged in the manufacture of pharmaceuticals for the purposes of this Subpart.

(Source: Amended at _____ Ill. Reg. _____,
effective _____)

TITLE 35: ENVIRONMENTAL PROTECTION
SUBTITLE B: AIR POLLUTION
CHAPTER I: POLLUTION CONTROL BOARD
SUBCHAPTER c: EMISSIONS STANDARDS AND LIMITATIONS
FOR STATIONARY SOURCES

PART 219
ORGANIC MATERIAL EMISSION STANDARDS AND LIMITATIONS FOR THE
METRO EAST AREA

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Section 219.Appendix C: Reference Test Methods For Air Oxidation
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Effectiveness Index (TRE) Equation

AUTHORITY: Implementing Section 10 and authorized by Section
28.5 of the Environmental Protection Act (Ill. Rev. Stat. 1991,
ch. 111½, par. 1010) (P.A. 87-1213, effective September 26, 1992)
[415 ILCS 5/10 and 28.5].

SOURCE: Adopted at R91-8 at 15 Ill. Reg. 12491, effective August 16, 1991; amended in R91-24 at 16 Ill. Reg. 13597, effective August 24, 1992; amended in R91-30 at 16 Ill. Reg. 13883, effective August 24, 1992; emergency amendment in R93-12 at 17 Ill. Reg. 8295, effective May 24, 1993, for a maximum of 150 days, amended in R93-9 at 17 Ill. Reg. 16918, effective September 27, 1993 and October 21, 1993; amended in R93-28 at 18 Ill. Reg. 4242, effective March 3, 1994; amended in R94-12 at 18 Ill. Reg. 14987 effective September 21, 1994; amended in R94-15 at 18 Ill. Reg. 16415, effective October 25, 1994; amended in R94-16 at 18 Ill. Reg. _____, effective _____; amended in R94-31 at _____ Ill. Reg. _____, effective _____.

SUBPART H: PRINTING AND PUBLISHING

Section 219.405 ~~Heatset Web Offset~~ Lithographic Printing:
Applicability

a) Applicability

~~1~~a) Until March 15, 1996, the limitations of subsection (b) below Section 219.406 of this Subpart apply to all heatset web offset lithographic printing lines (including solvents used for cleanup operations associated with the heatset web offset lithographic printing line(s)) at a ~~subject~~ source subject to the requirements of this Subpart. All sources with heatset web offset lithographic printing lines are ~~subject~~ sources subject to the requirements of this Subpart unless:

A~~1~~) Total maximum theoretical emissions of VOM from all heatset web offset lithographic printing lines (including solvents used for cleanup operations associated with the heatset web offset lithographic printing line(s)) at the source never exceed 90.7 Mg (100 tons) per calendar year in the absence of air pollution control equipment; or

B~~2~~) A federally enforceable permit or SIP revision for all heatset web offset lithographic printing line(s) at a source requires the owner or operator to limit production or capacity of these printing line(s) to reduce total VOM emissions from all heatset web offset lithographic printing line(s) to 90.7 Mg (100 tons) per calendar year or less in the absence of air pollution control equipment.~~7~~
and

~~2~~b) Any owner or operator of any heatset web offset lithographic printing line that is exempt from the limitations in ~~subsection (b) of this Section 219.406~~

~~of this Subpart because of the criteria in subsection (a)(1) of this Section shall be subject to the recordkeeping and reporting requirements in subsection (c)(1) of this Section 219.406(b)(1) of this Subpart.~~

~~b) Specific Provisions. No owner or operator of a subject heatset web offset printing line may cause or allow the operation of the subject heatset web offset printing line unless the owner or operator meets the requirements in subsections (b)(1) or (b)(2) and the requirements in subsections (b)(3) and (b)(4) below.~~

~~1) An afterburner system is installed and operated that reduces 90 percent of the VOM emissions from the dryer exhaust, or~~

~~2) The fountain solution contains no more than 8 percent, by weight, of VOM and a condensation recovery system is installed and operated that removes at least 75 percent of the non-isopropyl alcohol organic materials from the dryer exhaust, and~~

~~3) The control device is equipped with the applicable monitoring equipment specified in Section 219.105(d)(2) of this Part and the monitoring equipment is installed, calibrated, operated and maintained according to vendor specifications at all times the control device is in use, and~~

~~4) The control device is operated at all times when the subject printing line is in operation. The owner or operator shall demonstrate compliance with this Section by using the applicable test methods and procedures specified in Section 219.105(a), (d), and (f) of this Part and by complying with the recordkeeping and reporting requirements specified in subsection (c) below.~~

~~e) Recordkeeping and Reporting. The VOM content of each fountain solution and ink and the efficiency of each control device shall be determined by the applicable test methods and procedures specified in Section 219.105 of this Part to establish the records required under this subsection.~~

~~1) Any owner or operator of a printing line which is exempted from the limitations of subsection (b) of this Section because of the criteria in subsection (a) of this Section shall comply with the following:~~

~~A) By a date consistent with Section 219.106 of this Part, the owner or operator of a heatset web offset lithographic printing line to which subsection (c)(1) of this Section is applicable shall certify to the Agency that the heatset web offset lithographic printing line is exempt under the provisions of subsection (a) of this Section. Such certification shall include:~~

~~i) A declaration that the heatset web offset lithographic printing line is exempt from the limitations of subsection (b) of this Section because of the criteria in subsection (a) of this Section, and~~

~~ii) Calculations which demonstrate that total maximum theoretical emissions of VOM from all heatset web offset lithographic printing lines at the source never exceed 90.7 Mg (100 tons) per calendar year before the application of air pollution control equipment. Total maximum theoretical emissions of VOM for a heatset web offset lithographic printing source is the sum of maximum theoretical emissions of VOM from each heatset web offset lithographic printing line at the source. The following equation shall be used to calculate total maximum theoretical emissions of VOM per calendar year in the absence of air pollution control equipment for each heatset web offset lithographic printing line at the source.~~

$$E_p = \frac{(A \times B) + (C \times D) + 1095 (F \times G \times H)}{100}$$

~~where:~~

~~E_p = Total maximum theoretical emissions of VOM from one heatset web offset printing line in units of kg/year (lbs/year);~~

~~A = Weight of VOM per volume of solids of ink with the highest~~

~~VOM content as applied each year on the printing line in units of kg VOM/l (lbs VOM/gal) of solids;~~

~~B — Total volume of solids for all inks that can potentially be applied each year on the printing line in units of l/year (gal/year). The instrument or method by which the owner or operator accurately measured or calculated the volume of each ink as applied and the amount that can potentially be applied each year on the printing line shall be described in the certification to the Agency;~~

~~C — The weight percent VOM of the fountain solution with the highest VOM content;~~

~~D — The total volume of fountain solution that can potentially be used each year on the printing line in units of l/year (gal/year). The instrument and/or method by which the owner or operator accurately measured or calculated the volume of each fountain solution used and the amount that can potentially be used each year on the printing line shall be described in the certification to the Agency;~~

~~F — Weight of VOM per volume of material for the cleanup material or solvent with the highest VOM content as used each year on the printing line in units of Kg/l (lbs VOM/gal) of such material;~~

~~G — The greatest volume of cleanup material or solvent used in any 8-hour period and~~

- ~~H) = The highest fraction of cleanup material or solvent which is not recycled or recovered for offsite disposal during any 8-hour period.~~
- ~~B) On and after a date consistent with Section 219.106 of this Part, the owner or operator of a heatset web offset lithographic printing line to which subsection (c)(1) of this Section is applicable shall collect and record all of the following information each year for each printing line and maintain the information at the source for a period of three years:~~
- ~~i) The name and identification of each fountain solution and ink as applied on each printing line.~~
 - ~~ii) The VOM content and the volume of each fountain solution and ink as applied each year on each printing line.~~
- ~~C) On and after a date consistent with Section 219.106 of this Part, the owner or operator of a source exempted from the limitations of subsection (b) of this Section because of the criteria in subsection (a) of this Section shall notify the Agency of any record showing that total maximum theoretical emissions of VOM from all printing lines exceed 90.7 Mg (100 tons) in any calendar year in the absence of air pollution control equipment by sending a copy of such record to the Agency within 30 days after the exceedance occurs.~~
- ~~2) Any owner or operator of a printing line subject to the limitations of subsection (b) of this Section and complying by means of subsection (b)(1) of this Section shall comply with the following:~~
- ~~A) By a date consistent with Section 219.106 of this Part, or upon initial start-up of a new printing line, or upon changing the method of compliance for an existing printing line from subsection (b)(2) to subsection (b)(1) of this Section, the owner or operator of the subject printing line shall perform all tests and submit to the Agency the results of all tests and calculations necessary to~~

~~demonstrate that the subject printing line will be in compliance with subsection (b)(1) of this Section on and after a date consistent with Section 219.106 of this Part, or on and after the initial start-up date.~~

~~B) On and after a date consistent with Section 219.106 of this Part, or on and after the initial start-up date, the owner or operator of a printing line subject to the limitations of subsection (b) of this Section and complying by means of subsection (b)(1) of this Section shall collect and record the following information each day for each printing line and maintain the information at the source for a period of three years:~~

~~i) Control device monitoring data.~~

~~ii) A log of operating time for the control device, monitoring equipment and the associated printing line.~~

~~iii) A maintenance log for the control device and monitoring equipment detailing all routine and nonroutine maintenance performed including dates and duration of any outages.~~

~~C) On and after a date consistent with Section 219.106 of this Part, the owner or operator of a subject printing line shall notify the Agency in the following instances:~~

~~i) Any record showing violation of subsection (b)(1) of this Section shall be reported by sending a copy of such record to the Agency within 30 days following the occurrence of the violation.~~

~~ii) At least 30 calendar days before changing the method of compliance with subsection (b) of this Section from subsection (b)(1) to (b)(2) of this Section, the owner or operator shall comply with all requirements of subsection (c)(3)(A) of this Section. Upon changing the method of compliance with subsection (b) of this Section from subsection (b)(1) to (b)(2) of this Section, the owner or operator shall~~

~~comply with all requirements of subsection (c)(3) of this Section.~~

- ~~3) Any owner or operator of a printing line subject to the limitations of subsection (b) of this Section and complying by means of subsection (b)(2) of this Section shall comply with the following:~~
- ~~A) By a date consistent with Section 219.106 of this Part, or upon initial start-up of a new printing line, or upon changing the method of compliance for an existing printing line from subsection (b)(1) to (b)(2) of this Section; the owner or operator of the subject printing line shall perform all tests and submit to the Agency and the USEPA the results of all tests and calculations necessary to demonstrate that the subject printing line will be in compliance with subsection (b)(2) of this Section on and after a date consistent with Section 219.106 of this Part, or on and after the initial start-up date.~~
 - ~~B) On and after a date consistent with Section 219.106 of this Part, or on and after the initial start-up date, the owner or operator of a printing line subject to the limitations of subsection (b) of this Section and complying by means of subsection (b)(2) of this Section shall collect and record the following information each day for each printing line and maintain the information at the source for a period of three years:
 - ~~i) The VOM content of the fountain solution used each day on each printing line.~~
 - ~~ii) A log of operating time for the control device and the associated printing line.~~
 - ~~iii) A maintenance log for the control device detailing all routine and non-routine maintenance performed including dates and duration of any outages.~~~~
 - ~~C) On and after a date consistent with Section 219.106 of this Part, the owner or operator of a subject printing line shall notify the Agency in the following instances:
 - ~~i) Any record showing violation of~~~~

~~subsection (b) (2) shall be reported by sending a copy of such record to the Agency within 30 days following the occurrence of the violation.~~

~~ii) At least 30 calendar days before changing the method of compliance with subsection (b) of this Section from subsection (b) (2) to subsection (b) (1) of this Section, the owner or operator shall comply with all requirements of subsection (c) (2) (A) of this Section. Upon changing the method of compliance with subsection (b) of this Section from subsection (b) (2) to subsection (b) (1) of this Section, the owner or operator shall comply with all requirements of subsection (c) (2) of this Section.~~

~~d) Compliance Schedule. Every owner or operator of a heatset web offset lithographic printing line shall comply with the applicable requirements of subsections (b) and (c) of this Section in accordance with the applicable compliance schedule specified in subsections (d) (1), (d) (2), or (d) (3) below:~~

- ~~1) No owner or operator of a heatset web offset lithographic printing line which is exempt from the limitations of subsection (b) of this Section because of the criteria in subsection (a) of this Section shall operate said printing line on or after a date consistent with Section 219.106 of this Part, unless the owner or operator has complied with, and continues to comply with, subsections (a) (1) and (c) (1) of this Part.~~
- ~~2) No owner or operator of a heatset web offset lithographic printing line complying by means of subsection (b) (1) of this Section shall operate said printing line on or after a date consistent with Section 219.106 of this Part, unless the owner or operator has complied with, and continues to comply with, subsections (b) (1), (b) (3), (b) (4) and (c) (2) of this Section.~~
- ~~3) No owner or operator of a heatset web offset lithographic printing line complying by means of subsection (b) (2) of this Section shall operate said printing line on or after a date consistent with Section 219.106 of this Part, unless the owner or operator has complied with, and continues to comply with, subsections (b) (2), (b) (3), (b) (4)~~

~~and (e)(3) of this Section.~~

- c) On and after March 15, 1996, every owner or operator of lithographic printing line(s) is subject to the recordkeeping and reporting requirements in Section 219.411, and, if applicable, Section 219.412 of this Subpart.
- d) On and after March 15, 1996, Sections 219.407 through 219.412 of this Subpart shall apply to:
 - 1) All owners or operators of heatset web offset lithographic printing line(s) unless:
 - A) Total maximum theoretical emissions of VOM from all heatset web offset lithographic printing lines (including solvents used for cleanup operations associated with heatset web offset printing lines) at the source never exceed 90.7 Mg (100 tons) per calendar year before the application of capture systems and control devices. To determine a source's total maximum theoretical emissions of VOM for the purposes of this subsection, the owner or operator shall use the calculations set forth in Section 219.406(b)(1)(A)(ii) of this Subpart; or
 - B) Federally enforceable permit conditions or SIP revision for all heatset web offset lithographic printing line(s) at the source requires the owner or operator to limit production or capacity of these printing line(s) to total VOM emissions of 90.7 Mg/yr (100 TPY) or less, before the application of capture systems and control devices;
 - 2) All owners or operators of heatset web offset, non-heatset web offset, or sheet-fed offset lithographic printing line(s), unless the combined actual emissions of VOM from all lithographic printing line(s) at the source (including solvents used for cleanup operations associated with the lithographic printing line(s)) never exceed 45.5 kg/day (100 lbs/day), as determined in accordance with Section 219.411(a)(1)(B), before the application of capture systems and control devices.
- e) If a lithographic printing line at a source is or becomes subject to one or more of the limitations in Sections 219.406 or 219.407 of this Subpart, the

lithographic printing line(s) at the source are always subject to the applicable provisions of this Subpart.

(Source: Amended at _____ Ill. Reg. _____, effective _____).

Section 219.406 Provisions Applying to Heatset Web Offset Lithographic Printing Prior to March 15, 1996

- a) Emission Standards and Limitations. No owner or operator of a heatset web offset printing line at a source that meets or exceeds the applicability levels in Section 219.405(a) of this Subpart may cause or allow the operation of such heatset web offset printing line(s) unless the owner or operator meets the requirements in subsections (a)(1) or (a)(2) of this Section and the requirements in subsections (a)(3) and (a)(4) of this Section. The owner or operator shall demonstrate compliance with this Section by using the applicable test methods and procedures specified in Section 219.105(a), (d), and (f) of this Part and by complying with the recordkeeping and reporting requirements specified in subsection (b) of this Section.
- 1) An afterburner system is installed and operated that reduces 90 percent of the VOM emissions from the dryer exhaust; or
 - 2) The fountain solution contains no more than 8 percent, by weight, of VOM and a condensation recovery system is installed and operated that removes at least 75 percent of the non-isopropyl alcohol organic materials from the dryer exhaust; and
 - 3) The control device is equipped with the applicable monitoring equipment specified in Section 219.105(d)(2) of this Part and the monitoring equipment is installed, calibrated, operated and maintained according to manufacturer's specifications at all times when the control device is in use; and
 - 4) The control device is operated at all times when the printing line is in operation.
- b) Recordkeeping and Reporting. The VOM content of each fountain solution and ink and the efficiency of each control device shall be determined by the applicable test methods and procedures specified in Section 219.105 of this Part to establish the records required

under this subsection.

1) Any owner or operator of a lithographic printing line which is exempted from the limitations of subsection (a) of this Section because of the criteria in 219.405(a) of this Subpart shall comply with the following:

A) By a date consistent with Section 219.106 of this Part, the owner or operator of a heatset web offset lithographic printing line to which subsection (b)(1) of this Section is applicable shall certify to the Agency that the heatset web offset lithographic printing line is exempt under the provisions of Section 219.405(a) of this Subpart. Such certification shall include:

i) A declaration that the heatset web offset lithographic printing line is exempt from the limitations of subsection (a) of this Section because of the criteria in Section 219.405(a) of this Subpart; and

ii) Calculations which demonstrate that total maximum theoretical emissions of VOM from all heatset web offset lithographic printing lines at the source never exceed 90.7 Mg (100 tons) per calendar year before the application of air pollution control equipment. Total maximum theoretical emissions of VOM for a heatset web offset lithographic printing source is the sum of maximum theoretical emissions of VOM from each heatset web offset lithographic printing line at the source. The following equation shall be used to calculate total maximum theoretical emissions of VOM per calendar year in the absence of air pollution control equipment for each heatset web offset lithographic printing line at the source:

$$E_p = \frac{(A \times B) + (C \times D) + 1095 (F \times G \times H)}{100}$$

where:

- E_p = Total maximum theoretical emissions of VOM from one heatset web offset printing line in units of kg/yr (lbs/yr);
- A = Weight of VOM per volume of solids of ink with the highest VOM content as applied each year on the printing line in units of kg VOM/l (lbs VOM/gal) of solids;
- B = Total volume of solids for all inks that can potentially be applied each year on the printing line in units of l/year (gal/yr). The instrument or method by which the owner or operator accurately measured or calculated the volume of each ink as applied and the amount that can potentially be applied each year on the printing line shall be described in the certification to the Agency;
- C = The weight percent VOM of the fountain solution with the highest VOM content;
- D = The total volume of fountain solution that can potentially be used each year on the printing line in units of l/yr (gal/yr). The instrument and/or method by which the owner or operator accurately measured or calculated the volume of each fountain solution used and the amount that can potentially be used each year on the printing line shall be described in the certification to the Agency;
- F = Weight of VOM per volume of material for the cleanup material or solvent with the

highest VOM content as used each year on the printing line in units of Kg/l (lbs VOM/gal) of such material;

G = The greatest volume of cleanup material or solvent used in any 8-hour period; and

H = The highest fraction of cleanup material or solvent which is not recycled or recovered for offsite disposal during any 8-hour period.

B) On and after a date consistent with Section 219.106 of this Part, the owner or operator of a heatset web offset lithographic printing line to which subsection (b)(1) of this Section is applicable shall collect and record all of the following information each year for each printing line and maintain the information at the source for a period of three years:

i) The name and identification of each fountain solution and ink as applied on each printing line; and

ii) The VOM content and the volume of each fountain solution and ink as applied each year on each printing line.

C) On and after a date consistent with Section 219.106 of this Part, the owner or operator of a source exempted from the limitations of subsection (a) of this Section because of the criteria in Section 219.405(a) of this Subpart shall notify the Agency of any record showing that total maximum theoretical emissions of VOM from all heatset web offset printing lines exceed 90.7 Mg (100 tons) in any calendar year in the absence of air pollution control equipment by sending a copy of such record to the Agency within 30 days after the exceedance occurs.

2) Any owner or operator of a printing line subject to the limitations of subsection (a) of this Section and complying by means of subsection (a)(1) of this Section shall comply with the following:

- A) By a date consistent with Section 219.106 of this Part, or upon initial start-up of a new printing line, or upon changing the method of compliance for an existing printing line from subsection (a)(2) to subsection (a)(1) of this Section, perform all tests and submit to the Agency the results of all tests and calculations necessary to demonstrate that the subject printing line will be in compliance with subsection (a)(1) of this Section on and after a date consistent with Section 219.106 of this Part, or on and after the initial start-up date;
- B) On and after a date consistent with Section 219.106 of this Part, or on and after the initial start-up date, collect and record the following information each day for each printing line and maintain the information at the source for a period of three years:
- i) Control device monitoring data;
 - ii) A log of operating time for the control device, monitoring equipment and the associated printing line; and
 - iii) A maintenance log for the control device and monitoring equipment detailing all routine and nonroutine maintenance performed including dates and duration of any outages;
- C) On and after a date consistent with Section 219.106 of this Part, notify the Agency in the following instances:
- i) Any violation of subsection (a)(1) of this Section shall be reported to the Agency, in writing, within 30 days following the occurrence of the violation;
 - ii) Any record showing a violation of subsection (a)(1) of this Section shall be reported by sending a copy of such record to the Agency within 30 days following the occurrence of the violation; and
 - iii) At least 30 calendar days before changing the method of compliance with

subsection (a) of this Section from subsection (a)(1) to (a)(2) of this Section, the owner or operator shall comply with all requirements of subsection (b)(3)(A) of this Section. Upon changing the method of compliance with subsection (a) of this Section from subsection (a)(1) to subsection (a)(2) of this Section, the owner or operator shall comply with all requirements of subsection (b)(3) of this Section.

- 3) Any owner or operator of a printing line subject to the limitations of subsection (a) of this Section and complying by means of subsection (a)(2) of this Section shall:
- A) By a date consistent with Section 219.106 of this Part, or upon initial start-up of a new printing line, or upon changing the method of compliance for an existing printing line from subsection (a)(1) to subsection (a)(2) of this Section, perform all tests and submit to the Agency and the USEPA the results of all tests and calculations necessary to demonstrate that the subject printing line will be in compliance with subsection (a)(2) of this Section on and after a date consistent with Section 219.106 of this Part, or on and after the initial start-up date;
 - B) On and after a date consistent with Section 219.106 of this Part, or on and after the initial start-up date, collect and record the following information each day for each printing line and maintain the information at the source for a period of three years:
 - i) The VOM content of the fountain solution used each day on each printing line;
 - ii) A log of operating time for the control device and the associated printing line; and
 - iii) A maintenance log for the control device detailing all routine and non-routine maintenance performed including dates and duration of any outages;
 - C) On and after a date consistent with Section 219.106 of this Part, notify the Agency in

the following instances:

- i) Any violation of subsection (a)(2) shall be reported to the Agency, in writing, within 30 days following the occurrence of the violation;
 - ii) Any record showing a violation of subsection (a)(2) of this Section shall be reported by sending a copy of such record to the Agency within 30 day following the occurrence of the violation; and
 - iii) At least 30 calendar days before changing the method of compliance with subsection (a) of this Section from subsection (a)(2) to subsection (a)(1) of this Section, the owner or operator shall comply with all requirements of subsection (b)(2)(A) of this Section. Upon changing the method of compliance with subsection (a) of this Section from subsection (a)(2) to subsection (a)(1) of this Section, the owner or operator shall comply with all requirements of subsection (b)(2) of this Section.
- c) Compliance Schedule. Every owner or operator of a heatset web offset lithographic printing line shall comply with the applicable requirements of subsections (a) and (b) of this Section in accordance with the applicable compliance schedule specified in subsections (c)(1), (c)(2), or (c)(3) of this Section:
- 1) No owner or operator of a heatset web offset lithographic printing line which is exempt from the limitations of subsection (a) of this Section because of the criteria in Section 219.405(a) of this Subpart shall operate said printing line on or after a date consistent with Section 219.106 of this Part, unless the owner or operator has complied with, and continues to comply with, Sections 219.405(a) and 219.406(b)(1) of this Subpart.
 - 2) No owner or operator of a heatset web offset lithographic printing line complying by means of subsection (a)(1) of this Section shall operate said printing line on or after a date consistent with Section 219.106 of this Part, unless the owner or operator has complied with, and continues

to comply with, subsections (a)(1), (a)(3), (a)(4) and (b)(2) of this Section.

- 3) No owner or operator of a heatset web offset lithographic printing line complying by means of subsection (a)(2) of this Section shall operate said printing line on or after a date consistent with Section 219.106 of this Part, unless the owner or operator has complied with, and continues to comply with, subsections (a)(2), (a)(3), (a)(4) and (b)(3) of this Section.

(Source: Added at _____ Ill. Reg. _____, effective _____)

Section 219.407 Emission Limitations and Control Requirements for Lithographic Printing Lines On and After March 15, 1996

- a) On and after March 15, 1996, no owner or operator of lithographic printing line(s) subject to the requirements of this Subpart shall:
- 1) Cause or allow the operation of any heatset web offset lithographic printing line unless:
- A) The total VOM content in the as-applied fountain solution meets one of the following conditions:
- i) 1.6 percent or less, by volume;
- ii) 3 percent or less, by volume, and the temperature of the fountain solution is maintained below 15.6°C (60°F), measured at the reservoir or the fountain tray;
or
- iii) 5 percent or less, by volume, and the as-applied fountain solution contains no alcohol;
- B) The air pressure in the dryer is maintained lower than the air pressure of the press room, such that air flow through all openings in the dryer, other than the exhaust, is into the dryer at all times when the printing line is operating;
- C) An afterburner is installed and operated so that VOM emissions from the press dryer

exhaust(s) are reduced by 90 percent, by weight, or to a maximum afterburner exhaust outlet concentration of 20 ppmv (as carbon);

- D) The afterburner is equipped with the applicable monitoring equipment specified in Section 219.105(d)(2) of this Part and the monitoring equipment is installed, calibrated, operated, and maintained according to manufacturer's specifications at all times when the afterburner is in use; and
 - E) The afterburner is operated at all times when the printing line is in operation;
- 2) Cause or allow the operation of any non-heatset web offset lithographic printing line unless the VOM content of the as-applied fountain solution is 5 percent or less, by volume, and the as-applied fountain solution contains no alcohol;
 - 3) Cause or allow the operation of any sheet-fed offset lithographic printing line unless:
 - A) The VOM content of the as-applied fountain solution is 5 percent or less, by volume; or
 - B) The VOM content of the as-applied fountain solution is 8.5 percent or less, by volume, and the temperature of the fountain solution is maintained below 15.6°C (60°F), measured at the reservoir or the fountain tray;
 - 4) Cause or allow the use of a cleaning solution on any lithographic printing line unless:
 - A) The VOM content of the as-used cleaning solution is less than or equal to than 30 percent, by weight; or
 - B) The VOM composite partial vapor pressure of the as-used cleaning solution is less than 10 mmHg at 20°C (68°F);
 - 5) Cause or allow VOM containing cleaning materials, including used cleaning towels, associated with any lithographic printing line to be kept, stored or disposed of in any manner other than in closed containers.

- b) An owner or operator of a heatset web offset lithographic printing line subject to the requirement of Section 219.407(a)(1)(C) of this Subpart may use a control device other than an afterburner, if:
- 1) The control device reduces VOM emissions from the press dryer exhaust(s) by at least 90 percent, by weight, or to a maximum control device exhaust outlet concentration of 20 ppmv (as carbon);
 - 2) The owner or operator submits a plan to the Agency detailing appropriate monitoring devices, test methods, recordkeeping requirements, and operating parameters for the control device; and
 - 3) The use of the control device with testing, monitoring, and recordkeeping in accordance with this plan is approved by the Agency and USEPA as federally enforceable permit conditions.

(Source: Added at _____ Ill. Reg. _____, effective _____)

Section 219.408 Compliance Schedule for Lithographic Printing On and After March 15, 1996

- a) Every owner or operator of a lithographic printing line subject to one or more of the control requirements of Section 219.407 of this Subpart shall comply with the applicable requirements of Sections 219.407 through 219.411, and, if applicable, 219.412 of this Subpart on and after March 15, 1996, or upon initial start-up, whichever is later.
- b) No owner or operator of a lithographic printing line which is exempt from the limitations of Section 219.407 of this Subpart because of the criteria in Section 219.405(d) of this Subpart, shall operate said printing line on or after March 15, 1996, unless the owner or operator has complied with, and continues to comply with, Sections 219.405(d) and 219.411(a) of this Subpart.

(Source: Added at _____ Ill. Reg. _____, effective _____)

Section 219.409 Testing for Lithographic Printing On and After March 15, 1996

- a) Testing to demonstrate compliance with the requirements of Section 219.407 of this Subpart shall be conducted by the owner or operator upon request of the Agency.

Such testing shall be conducted at the expense of the owner or operator and the owner or operator shall notify the Agency in writing 30 days in advance of conducting such testing to allow the Agency to be present during such testing.

b) The methods and procedures of Section 219.105(d) and (f) shall be used for testing to demonstrate compliance with the requirements of Section 219.407(a)(1)(C) or (b)(1) of this Subpart, as follows:

1) To select the sampling sites, Method 1 or 1A, as appropriate, 40 CFR 60, Appendix A, incorporated by reference at Section 219.112 of this Part. The sampling sites for determining efficiency in reducing VOM from the dryer exhaust shall be located between the dryer exhaust and the control device inlet, and between the outlet of the control device and the exhaust to the atmosphere;

2) To determine the volumetric flow rate of the exhaust stream, Method 2, 2A, 2C, or 2D, as appropriate, 40 CFR 60, Appendix A, incorporated by reference at Section 219.112 of this Part;

3) To determine the VOM concentration of the exhaust stream entering and exiting the control device, Method 25 or 25A, as appropriate, 40 CFR 60, Appendix A, incorporated by reference at Section 219.112 of this Part. For thermal and catalytic afterburners, Method 25 must be used except under the following circumstances, in which case Method 25A must be used:

A) The allowable outlet concentration of VOM from the control device is less than 50 ppmv, as carbon;

B) The VOM concentration at the inlet of the control device and the required level of control result in exhaust concentrations of VOM of 50 ppmv, or less, as carbon; and

C) Due to the high efficiency of the control device, the anticipated VOM concentration at the control device exhaust is 50 ppmv or less, as carbon, regardless of inlet concentration. If the source elects to use Method 25A under this option, the exhaust VOM concentration must be 50 ppmv or less, as carbon, and the required destruction efficiency must be met for the source to have

demonstrated compliance. If the Method 25A test results show that the required destruction efficiency apparently has been met, but the exhaust concentration is above 50 ppmv, as carbon, Method 25 must instead be used;

- 4) Notwithstanding the criteria or requirements in Method 25 which specifies a minimum probe temperature of 129°C (265°F), the probe must be heated to at least the gas stream temperature of the dryer exhaust, typically close to 176.7°C (350°F);
 - 5) During testing, the printing line(s) shall be operated at representative operating conditions and flow rates; and
 - 6) During testing, an air flow direction indicating device shall be used to demonstrate 100 percent emissions capture efficiency for the dryer in accordance with Section 219.407(a)(1)(B) of this Subpart.
- c) Testing to demonstrate compliance with the VOM content limitations in Section 219.407(a)(1)(A), (a)(2), (a)(3) and (a)(4)(A) of this Subpart, and to determine the VOM content of fountain solutions, fountain solution additives, cleaning solvents, cleaning solutions, and inks (pursuant to the requirements of Section 219.411(a)(1)(B) of this Subpart), shall be conducted upon request of the Agency, as follows:
- 1) The applicable test methods and procedures specified in Section 219.105(a) of this Part shall be used; provided, however, Method 24, incorporated by reference at Section 219.112 of this Part, shall be used to demonstrate compliance; or
 - 2) 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 Section 219.105(a) of this Part; provided, however, Method 24 shall be used to determine compliance.
- d) Testing to demonstrate compliance with the requirements of Section 219.407(b) of this Subpart shall be

conducted as set forth in the owner or operator's plan approved by the Agency and USEPA as federally enforceable permit conditions pursuant to Section 219.407(b) of this Subpart.

- e) Testing to determine the composite partial vapor pressure of cleaning solvents, cleaning solvent concentrates, and as-used cleaning solutions shall be conducted in accordance with the applicable methods and procedures specified in Section 219.110 of this Part.

(Source: Added at _____ Ill. Reg. _____, effective _____)

Sections 219.410 Monitoring Requirements for Lithographic Printing

a) Fountain Solution Temperature

- 1) The owner or operator of any lithographic printing line(s) relying on the temperature of the fountain solution to demonstrate compliance shall install, maintain, and continuously operate a temperature monitor of the fountain solution in the reservoir or fountain tray, as applicable.
- 2) The temperature monitor must be capable of reading with an accuracy of 0.3°C or 0.5°F, and must be attached to an automatic, continuous recording device such as a strip chart, recorder, or computer, with at least the same accuracy, that is installed, calibrated and maintained in accordance with the manufacturer's specifications.

b) Fountain Solution VOM Content

- 1) The owner or operator of any lithographic printing line(s) subject to Section 219.407(a)(1)(A), (a)(2) or (a)(3) of this Subpart shall:
 - A) For a fountain solution to which VOM is not added automatically, 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 shall determine compliance with the VOM content limitation of the as-applied fountain solution by using one of the following options:

- i) 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
 - ii) 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;
 - B) 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 of 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.
- 2) The owner or operator of lithographic printing line(s) subject to Section 219.407(a)(1)(A), (a)(2) or (a)(3) of this Subpart may elect an

alternative means of demonstrating compliance with the VOM content limit (e.g., an equivalent alternative recordkeeping system) that allows determination of compliance with at least equal frequency and reliability, if approved by the Agency and USEPA as federally enforceable permit conditions.

c) Afterburners For Heatset Web Offset Lithographic Printing Line(s)

If an afterburner is used to demonstrate compliance, the owner or operator of a heatset web offset lithographic printing line subject to Section 219.407(a)(1)(C) of this Subpart shall:

- 1) Install, calibrate, maintain, and operate temperature monitoring device(s) with an accuracy of 3°C or 5°F on the afterburner in accordance with Section 219.105(d)(2) of this Part and in accordance with the manufacturer's specifications. Monitoring shall be performed at all times when the afterburner is operating; and
- 2) Install, calibrate, operate and maintain, in accordance with manufacturer's specifications, a continuous recorder on the temperature monitoring device(s), such as a strip chart, recorder or computer, with at least the same accuracy as the temperature monitor.

d) Other Control Devices for Heatset Web Offset Lithographic Printing Line(s)

If a control device other than an afterburner is used to demonstrate compliance, the owner or operator of a heatset web offset lithographic printing line subject to this Subpart shall install, maintain, calibrate and operate such monitoring equipment as set forth in the owner or operator's plan approved by the Agency and USEPA pursuant to Section 219.407(b) of this Subpart.

e) Cleaning Solution

- 1) The owner or operator of any lithographic printing line relying on the VOM content of the cleaning solution to comply with Section 219.407(a)(4)(A) of this Subpart must:

A) For cleaning solutions that are prepared at the source with equipment that automatically

mixes cleaning solvent and water (or other non-VOM):

- i) Install, operate, maintain, and calibrate the automatic feed equipment in accordance with manufacturer's specifications to regulate the volume of each of the cleaning solvent and water (or other non-VOM), as mixed; and
- ii) Pre-set the automatic feed equipment so that the consumption rates of the cleaning solvent and water (or other non-VOM), as applied, comply with Section 219.407(a)(4)(A) of this Subpart;

B) For cleaning solutions that are not prepared at the source with automatic feed equipment, keep records of the usage of cleaning solvent and water (or other non-VOM) as set forth in Section 219.411(d)(2), or, if applicable, 219.412(d)(2) of this Subpart.

- 2) The owner or operator of any lithographic printing line relying on the vapor pressure of the cleaning solution to comply with Section 219.407(a)(4)(B) of this Subpart must keep records for such cleaning solutions used on any such line(s) as set forth in Section 219.411(d)(2)(C), or, if applicable, Section 219.412(d)(2) of this Subpart.

(Source: Added at _____ Ill. Reg. _____, effective _____)

Section 219.411 Recordkeeping and Reporting for Lithographic Printing

- a) An owner or operator of lithographic printing line(s) exempt from the limitations of Section 219.407 of this Subpart because of the criteria in Section 219.405(d) of this Subpart shall comply with the following:
 - 1) By March 15, 1996, upon initial start-up of a new lithographic printing line, and upon modification of a lithographic printing line, submit a certification to the Agency that includes:
 - A) A declaration that the source is exempt from the control requirements in Section 219.407 of this Part because of the criteria in Section 219.405(d) of this Subpart;

B) Calculations which demonstrate that combined actual emissions of VOM from all lithographic printing lines (including inks, fountain solutions, and solvents used for cleanup operations associated with the lithographic printing lines) at the source never exceed 45.5 kg/day (100 lbs/day) before the use of capture systems and control devices, as follows:

i) To calculate actual daily emissions of VOM, the owner or operator shall determine the monthly emissions of VOM from all lithographic printing lines at the source (including solvents used for cleanup operations associated with the lithographic printing lines) and divide this amount by the number of days during that calendar month that printing lines at the source were in operation;

ii) To determine the VOM content of the inks, fountain solution additives and cleaning solvents, the tests methods and procedures set forth in Section 219.409(c) of this Subpart shall be used;

iii) To determine VOM emissions from ink used on lithographic printing line(s) at the source, an emission adjustment factor of 0.05 shall be used in calculating emissions from all non-heatset inks, and a factor of 0.80 shall be used in calculating emissions from all heatset inks to account for VOM retention in the substrate. The VOM content of the ink, as used, shall be multiplied by this factor to determine the amount of VOM emissions from the use of ink on the printing line(s); and

iv) To determine VOM emissions from fountain solutions and cleaning solvents used on lithographic printing line(s) at the source, no retention factor is used;

C) Either a declaration that the source, through federally enforceable permit conditions, has limited its maximum theoretical emissions of VOM from all heatset web offset lithographic printing lines (including solvents used for

cleanup operations associated with heatset web offset printing lines) at the source to no more than 90.7 Mg (100 tons) per calendar year before the application of capture systems and control devices or calculations which demonstrate that the source's total maximum theoretical emissions of VOM do not exceed 90.7 Mg/yr (100 TPY). To determine the source's total maximum theoretical emissions for the purposes of this subsection, the owner or operator shall use the calculations set forth in Section 219.406(b)(1)(A)(ii) of this Subpart; and

D) A description and the results of all tests used to determine the VOM content of inks, fountain solution additives, and cleaning solvents, and a declaration that all such tests have been properly conducted in accordance with Section 219.409(c)(1) of this Subpart;

2) On and after March 15, 1996, collect and record all of the following information for each lithographic printing line at the source:

A) The name and identification of each fountain solution additive, ink, and cleaning solvent used on each lithographic printing line, recorded each month;

B) A daily record which shows whether or not a printing line at the source was in operation on that day;

C) The VOM content and the volume of each fountain solution additive, ink, and cleaning solvent used on each lithographic printing line, recorded each month;

D) The total VOM emissions at the source each month, determined as the sum of the product of usage and VOM content for each fountain solution additive, cleaning solvent, and ink (with the applicable VOM emission adjustment) used at the source, calculated each month; and

E) The actual VOM emissions in lbs/day for the month, calculated in accordance with Section 219.411(a)(1)(B);

- 3) On and after March 15, 1996, notify the Agency in writing if the combined actual emissions of VOM from all lithographic printing lines (including inks, fountain solutions, and solvents used for cleanup operations associated with the lithographic printing lines) at the source ever exceed 45.5 kg/day (100 lbs/day), before the use of capture systems and control devices, within 30 days after the event occurs. Such notification shall include a copy of all records of such event.
- b) An owner or operator of a heatset web offset lithographic printing line(s) subject to the control requirements of Section 219.407(a)(1)(C) or (b)(1) of this Subpart shall comply with the following:
- 1) By March 15, 1996, upon initial start-up of a new printing line, and upon initial start-up of a new control device for a heatset web offset printing line, submit a certification to the Agency that includes the following:
 - A) An identification of each heatset web offset lithographic printing line at the source;
 - B) A declaration that each heatset web offset lithographic printing line is in compliance with the requirements of Section 219.407 (a)(1)(B), (a)(1)(C), (a)(1)(D) and (a)(1)(E) or (b) of this Subpart, as appropriate;
 - C) The type of afterburner or other approved control device used to comply with the requirements of Section 219.407(a)(1)(C) or (b)(1) of this Subpart;
 - D) The control requirements in Section 219.407(a)(1)(C) or (b)(1) of this Subpart with which the lithographic printing line is complying;
 - E) The results of all tests and calculations necessary to demonstrate compliance with the control requirements of Section 219.407(a)(1)(C) or (b)(1) of this Subpart, as applicable; and
 - F) A declaration that the monitoring equipment required under Section 219.407(a)(1)(D) or (b) of this Subpart, as applicable, has been properly installed and calibrated according to manufacturer's specifications;

- 2) If testing of the afterburner or other approved control device is conducted pursuant to Section 219.409(b) of this Subpart, the owner or operator shall, within 90 days of conducting such testing, submit a copy of all test results to the Agency and shall submit a certification to the Agency that includes the following:
- A) A declaration that all tests and calculations necessary to demonstrate whether or not the lithographic printing line(s) is in compliance with Section 219.407(a)(1)(C) or (b)(1) of this Subpart, as applicable, have been properly performed;
 - B) A statement whether the lithographic printing line(s) is or is not in compliance with Section 219.407(a)(1)(C) or (b)(1) of this Subpart, as applicable; and
 - C) The operating parameters of the afterburner or other approved control device during testing, as monitored in accordance with Section 219.410(c) or (d) of this Subpart, as applicable;
- 3) On and after March 15, 1996, collect and record daily the following information for each heatset web offset lithographic printing line subject to the requirements of Section 219.407(a)(1)(C) or (b)(1) of this Subpart:
- A) Afterburner or other approved control device monitoring data in accordance with Section 219.410(c) or (d) of this Subpart, as applicable;
 - B) A log of operating time for the afterburner or other approved control device, monitoring equipment, and the associated printing line;
 - C) A maintenance log for the afterburner or other approved control device and monitoring equipment detailing all routine and non-routine maintenance performed, including dates and duration of any outages; and
 - D) 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 Section 219.407(a)(1)(B) of this Subpart at least once per 24-hour period

while the line is operating;

- 4) On and after March 15, 1996, notify the Agency in writing of any violation of Section 219.407(a)(1)(C) or (b)(1) of this Subpart within 30 days after the occurrence of such violation. Such notification shall include a copy of all records of such violation;
 - 5) If changing its method of compliance between subsections (a)(1)(C) and (b) of Section 219.407 of this Subpart, certify compliance for the new method of compliance in accordance with subsection (b)(1) of this Section at least 30 days before making such change, and perform all tests and calculations necessary to demonstrate that such printing line(s) will be in compliance with the requirements of Section 219.407(a)(1)(B), (a)(1)(C), (a)(1)(D) and (a)(1)(E) of this Subpart, or Section 219.407(b) of this Subpart, as applicable.
- c) An owner or operator of a lithographic printing line subject to Section 219.407(a)(1)(A), (a)(2), or (a)(3) of this Subpart, shall:
- 1) By March 15, 1996, and upon initial start-up of a new lithographic printing line, certify to the Agency that fountain solutions used on each lithographic printing line will be in compliance with the applicable VOM content limitation. Such certification shall include:
 - A) Identification of each lithographic printing line at the source, by type, e.g., heatset web offset, non-heatset web offset, or sheet-fed offset;
 - B) The VOM content limitation with which each fountain solution will comply;
 - C) Initial documentation that each type of fountain solution will comply with the applicable VOM content limitation, including copies of manufacturer's specifications, test results, if any, formulation data and calculations;
 - D) Identification of the method that will be used to demonstrate continuing compliance with the applicable limitation, e.g., a refractometer, hydrometer, conductivity

meter, or alternative procedures with detailed description of the compliance methodology; and

E) A sample of the records that will be kept pursuant to Section 219.411(c)(2) of this Subpart.

2) On and after March 15, 1996, collect and record the following information for each fountain solution used on each lithographic printing line:

A) The name and identification of each batch of fountain solution prepared for use on lithographic printing line(s), and the applicable VOM content limitation for the batch;

B) If an owner or operator uses a hydrometer, refractometer, or conductivity meter, pursuant to Section 219.410(b)(1)(A), to demonstrate compliance with the applicable VOM content limit in Section 219.407(a)(1)(A), (a)(2), or (a)(3) of this Subpart:

i) The date and time of preparation, and each subsequent modification, of the batch;

ii) The results of each measurement taken in accordance with Section 219.410(b) of this Subpart;

iii) 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

iv) Documentation of the periodic temperature adjustment of the meter, including date and time of adjustment, personnel conducting and results;

C) If the VOM content of the fountain solution is determined pursuant to Section 219.410(b)(2) of this Subpart, for each batch of as-applied fountain solution:

- i) Date and time of preparation and each subsequent modification of the batch;
 - ii) Calculated VOM content of the as-applied fountain solution; and
 - iii) Any other information necessary to demonstrate compliance with the applicable VOM content limits in Section 219.407(a)(1)(A), (a)(2) and (a)(3) of this Subpart, as specified in the source's operating permit;
- D) If the owner or operator relies on the temperature of the fountain solution to comply with the requirements in Section 219.407(a)(1)(A)(ii) or (a)(3)(B) of this Subpart:
- i) The temperature of the fountain solution at each printing line, as monitored in accordance with Section 219.410(a); and
 - ii) A maintenance log for the temperature monitoring devices detailing all routine and non-routine maintenance performed, including dates and duration of any outages;
- 3) Notify the Agency in writing of any violation of Section 219.407 of this Subpart within 30 days after the occurrence of such violation. Such notification shall include a copy of all records of such violation; and
- 4) If changing its method of demonstrating compliance with the applicable VOM content limitations in Section 219.407 of this Subpart, or changing the method of demonstrating compliance with the VOM content limitations for fountain solutions pursuant to Section 219.409 of this Subpart, certify compliance for such new method(s) in accordance with subsection (c)(1) of this Section at least 30 days before 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 Section 219.407 of this Subpart.
- d) For lithographic printing line cleaning operations, an owner or operator of a lithographic printing line subject to the requirements of Section 219.407 of this

Subpart shall:

- 1) By March 15, 1996, or upon initial start-up of a new lithographic printing line, certify to the Agency that all cleaning solutions, and the handling of cleaning materials, will be in compliance with the requirements of Section 219.407(a)(4)(A) or (a)(4)(B) and (a)(5) of this Subpart, and such certification shall also include:
 - A) Identification of each VOM-containing cleaning solution used on each lithographic printing line;
 - B) The limitation with which each VOM-containing cleaning solution will comply, i.e., the VOM content or vapor pressure;
 - C) Initial documentation that each VOM-containing cleaning solution will comply with the applicable limitation, including copies of manufacturer's specifications, test results, if any, formulation data and calculations;
 - D) Identification of the method that will be used to demonstrate continuing compliance with the applicable limitations;
 - E) A sample of the records that will be kept pursuant to Section 219.411(d)(2) of this Subpart; and
 - F) A description of the practices that assure that VOM-containing cleaning materials are kept in closed containers;
- 2) On and after March 15, 1996, collect and record the following information for each cleaning solution used on each lithographic printing line:
 - A) For each cleaning solution for which the owner or operator relies on the VOM content to demonstrate compliance with Section 219.407(a)(4)(A) of this Subpart and which is prepared at the source with automatic equipment:
 - i) The name and identification of each cleaning solution;

- ii) The VOM content of each cleaning solvent in the cleaning solution, as determined in accordance with Section 219.409(c) of this Subpart;
 - iii) Each change to the setting of the automatic equipment, with date, time, description of changes in the cleaning solution constituents (e.g., cleaning solvents), and a description of changes to the proportion of cleaning solvent and water (or other non-VOM);
 - iv) The proportion of each cleaning solvent and water (or other non-VOM) used to prepare the as-used cleaning solution;
 - v) The VOM content of the as-used cleaning solution, with supporting calculations; and
 - vi) A calibration log for the automatic equipment, detailing periodic checks;
- B) For each batch of cleaning solution for which the owner or operator relies on the VOM content to demonstrate compliance with Section 219.407(a)(4)(A) of this Subpart, and which is not prepared at the source with automatic equipment:
- i) The name and identification of each cleaning solution;
 - ii) Date and time of preparation, and each subsequent modification, of the batch;
 - iii) The VOM content of each cleaning solvent in the cleaning solution, as determined in accordance with Section 219.409(c) of this Subpart;
 - iv) The total amount of each cleaning solvent and water (or other non-VOM) used to prepare the as-used cleaning solution; and
 - v) The VOM content of the as-used cleaning solution, with supporting calculations;
- C) For each batch of cleaning solution for which the owner or operator relies on the vapor

pressure of the cleaning solution to demonstrate compliance with Section 219.407(a)(4)(B) of this Subpart:

- i) The name and identification of each cleaning solution;
 - ii) Date and time of preparation, and each subsequent modification, of the batch;
 - iii) The molecular weight, density, and VOM composite partial vapor pressure of each cleaning solvent, as determined in accordance with Section 219.409(e) of this Subpart;
 - iv) The total amount of each cleaning solvent used to prepare the as-used cleaning solution; and
 - v) The VOM composite partial vapor pressure of each as-used cleaning solution, as determined in accordance with Section 219.409(e) of this Subpart;
- D) 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;
- 3) On and after March 15, 1996, notify the Agency in writing of any violation of Section 219.407 of this Subpart within 30 days after the occurrence of such violation. Such notification shall include a copy of all records of such violation; and
- 4) If changing its method of demonstrating compliance with the requirements of Section 219.407(a)(4) of this Subpart, or changing between automatic and manual methods of preparing cleaning solutions, certify compliance for such new method in accordance with subsection (d)(1) of this Section, at least 30 days before 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 Section 219.407(a)(4) of this Subpart;

- e) The owner or operator shall maintain all records required by this Section at the source for a minimum period of three years and shall make all records available to the Agency upon request.

(Source: Added at _____ Ill. Reg. _____,
effective _____)

Section 219.412 Recordkeeping and Reporting for Fountain and Cleaning Solution Stricter Limits

- a) An owner or operator of lithographic printing line(s) subject to the requirements of Section 219.407(a)(1)(A), (a)(2), or (a)(3) of this Subpart may elect to comply with the recordkeeping and reporting requirements of subsection (b) of this Section, rather than the recordkeeping and reporting requirements in Section 219.411(c) of this Subpart and the applicable monitoring requirements in Section 219.409 of this Subpart for each lithographic printing line that meets the following criteria:

- 1) The VOM content of the as-applied fountain solution is subject to federally enforceable permit conditions contained in the source's operating permit that limit the VOM content of the as-applied fountain solution to 75% or less of the applicable VOM content limit in Section 219.407(a)(1)(A), (a)(2), or (a)(3) of this Subpart. Each such as-applied fountain solution is hereinafter referred to as the "75% Fountain Solution";
- 2) The owner or operator submits to the Agency six consecutive months of records of the type and with the information specified in Section 219.411(c)(2) of this Subpart demonstrating that the VOM content of the as-applied fountain solution would comply with the applicable 75% Fountain Solution VOM content limit, as specified in the source's operating permit; and
- 3) The owner or operator notifies the Agency in writing at least 45 days in advance of such change and submits a certification in accordance with subsection (b)(1) of this Section. Such notification shall include a summary of the records relied upon pursuant to subsection (a)(2) of this Section.

- b) The owner or operator electing to comply with subsections (a) and (b) of this Section shall for each

lithographic printing line to which the 75% Fountain Solution is applied:

- 1) Certify to the Agency that each as-applied fountain solution complies with the applicable 75% Fountain Solution VOM content limit contained in the source's operating permit. Such certification shall include:
 - A) Identification of the lithographic printing line(s) at the source, by type, e.g., heatset web offset, non-heatset web offset, or sheet-fed offset, to which the 75% Fountain Solution is applied; and
 - B) The otherwise applicable VOM content limitation for each 75% Fountain Solution, as specified in Section 219.407(a)(1)(A), (a)(2), or (a)(3) of this Subpart;
- 2) Collect and record the following information for each 75% Fountain Solution used on each lithographic printing line:
 - A) The name and identification of each 75% Fountain Solution, recorded each month;
 - B) The VOM content of each fountain solution additive in the 75% Fountain Solution, determined in accordance with Section 219.409(c) of this Subpart;
 - C) The total amount of each fountain solution additive and water (or other non-VOM) used to prepare the 75% Fountain Solution, recorded each month; and
 - D) The VOM content of the 75% Fountain Solution, calculated on a monthly basis, with supporting calculations;
- 3) If the owner or operator also relies on the temperature of the fountain solution to demonstrate compliance with Section 219.407(a)(1)(A)(ii) or (a)(3)(B) of this Subpart, collect and record the information specified in Section 219.411(c)(2)(D) of this Subpart; and
- 4) Notify the Agency in writing of any violation of a 75% Fountain Solution VOM content limit, within 30 days after the occurrence of such violation. Such notification shall include a copy of all records

of such violation.

c) An owner or operator of lithographic printing line(s) subject to the requirements of Section 219.411(a)(4) of this Subpart may elect to comply with the recordkeeping and reporting requirements of subsection (d) of this Section, rather than the recordkeeping and reporting requirements in Section 219.411(d) of this Subpart and the applicable monitoring requirements in Section 219.409 of this Subpart for each lithographic printing line that meets the following criteria:

- 1) The VOM content or the VOM composite partial vapor pressure of the as-used cleaning solution, as applicable, is subject to federally enforceable permit conditions contained in the source's operating permit that limit the VOM content or the VOM composite partial vapor pressure of the as-used cleaning solution to 75% or less of the VOM content limit in Section 219.407(a)(4)(A) of this Subpart or to 75% or less of the VOM composite partial vapor pressure limit in Section 219.402(a)(4)(B) of this Subpart, respectively. Each such as-used cleaning solution is hereinafter referred to as the "75% Cleaning Solution;"
- 2) The owner or operator submits to the Agency six consecutive months of records of the type and with the information specified in Section 219.411(d)(2)(A), (d)(2)(B), or (d)(2)(C) of this Subpart, as applicable, demonstrating that the VOM content or the VOM composite partial vapor pressure (as applicable) of the as-used cleaning solution would comply with the applicable 75% Cleaning Solution VOM content limit or the VOM composite partial vapor pressure limit, as specified in the source's operating permit; and
- 3) The owner or operator notifies the Agency in writing at least 45 days in advance of such change and submits a certification in accordance with subsection (d)(1) of this Section. Such notification shall include a summary of the records relied upon pursuant to the subsection (c)(2) of this Section.

d) The owner or operator electing to comply with subsections (c) and (d) of this Section shall for each lithographic printing line on which the 75% Cleaning Solution is used:

- 1) Certify to the Agency that each as-used cleaning

solution complies with the applicable 75% Cleaning Solution VOM content limit or VOM composite partial vapor pressure limit contained in the source's operating permit. Such certification shall include:

- A) Identification of the lithographic printing line(s) at the source to which the 75% Cleaning Solution is applied; and
- B) Whether the as-used cleaning solution achieves a VOM content limit or VOM composite partial vapor pressure that is 75% of the otherwise applicable limitation, as specified in Section 219.407(a)(4)(A) or (a)(4)(B), respectively;

2) Collect and record the following information for 75% Cleaning Solution used on each lithographic printing line:

- A) The name and identification of each 75% Cleaning Solution, recorded each month;
- B) The VOM content or the VOM composite partial vapor pressure, as applicable, of each cleaning solvent in the 75% Cleaning Solution, determined in accordance with Section 219.409(e)(1) or (e)(2) of this Subpart, as applicable; and
- C) The total amount of each cleaning solvent and water (or other non-VOM) used to prepare the 75% Cleaning Solution, record each month; and
- D) The VOM content or the VOM composite partial vapor pressure, as applicable, of the 75% Cleaning Solution, calculated on a monthly basis, with supporting calculations;

3) Notify the Agency in writing of any violation of a 75% Cleaning Solution VOM content limit or VOM composite partial vapor pressure limit within 30 days after the occurrence of such violation. Such notification shall include a copy of all records of such violation.

e) The owner or operator shall maintain all records required by this Section at the source for a minimum period of three years and shall make all records available to the Agency upon request.

(Source: Added at _____ Ill. Reg. _____,
effective _____)

SUBPART T: PHARMACEUTICAL MANUFACTURING

Section 219.480 Applicability

- a) The rules of this Subpart, except for Sections 219.483 through 219.485 of this Part, apply to all emission units of VOM, including but not limited to reactors, distillation units, dryers, storage tanks for VOL, equipment for the transfer of VOL, filters, crystallizers, washers, laboratory hoods, pharmaceutical coating operations, mixing operations and centrifuges used in manufacturing, including packaging, of pharmaceuticals and emitting more than 6.8 kg/day (15 lbs/day) and more than 2,268 kg/year (2.5 tons/year) of VOM. If such an emission unit emits less than 2,268 kg/year (2.5 tons/year) of VOM, the requirements of this Subpart still apply to the emission unit if VOM emissions from the emission unit exceed 45.4 kg/day (100 lbs/day).
- b) Sections 219.483 through 219.485 of this Part apply to a source having one or more emission units that:
 - 1) Are used to manufacture pharmaceuticals, and
 - 2) Emit more than 6.8 kg/day (15 lbs/day) of VOM and more than 2,268 kg/year (2.5 tons/year) of VOM, or, if less than 2,268 kg/year (2.5 tons/year), these Sections still apply if emissions from one or more sources exceed 45.4 kg/day (100 lbs/day).
- c) No owner or operator shall violate any condition in a permit when the condition results in exclusion of an emission unit from this Subpart.
- d) Any pharmaceutical manufacturing source that becomes subject to the provisions of this Subpart at any time shall remain subject to the provisions of this Subpart at all times.
- e) Emissions subject to this Subpart shall be controlled at all times consistent with the requirements set forth in this Subpart.
- f) Any control device required pursuant to this Subpart shall be operated at all times when the source it is controlling is operated.
- g) Determinations of daily and annual emissions for

purposes of this Section shall be made using both data on the hourly emission rate (or the emissions per unit of throughput) and appropriate daily and annual data from records of emission unit operation (or material throughput or material consumption data). In the absence of representative test data pursuant to Section 219.487 of this Part for the hourly emission rate (or the emissions per unit of throughput) such items shall be calculated using engineering calculations, including the methods described in Appendix B of "Control of Volatile Organic Emissions from Manufacturing of Synthesized Pharmaceutical Products" (EPA-450/2-78-029), incorporated by reference in Section 219.112 of this Part.

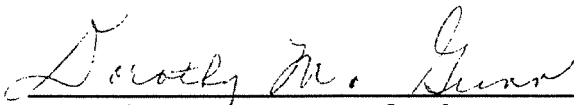
(This subsection shall not affect the Agency's or the USEPA's authority to require emission tests to be performed pursuant to Section 219.487 of this Part.)

- h) Equipment and operations emitting VOM at a source subject to subsection (a) or (c) of this Section and used to produce pharmaceutical products or a pharmaceutical-like product such as a hormone, enzyme, or antibiotic, shall be deemed to be engaged in the manufacture of pharmaceuticals for the purposes of this Subpart.

(Source: Amended at _____ Ill. Reg. _____, effective _____)

IT IS SO ORDERED.

I, Dorothy M. Gunn, Clerk of the Illinois Pollution Control Board, hereby certify that the above opinion and order was adopted on the 3rd day of November, 1994, by a vote of 6-0.



 Dorothy M. Gunn, Clerk
 Illinois Pollution Control Board