ILLINOIS POLLUTION CONTROL BOARD November 3, 1994

IN THE MATTER OF:)
15% ROP PLAN CONTROL MEASURES FOR VOM EMISSIONS - PART V: CONTROL OF VOLATILE ORGANIC)) R94-31) (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 nonheatset 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 timeframes. 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 JCAR 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
- Abbreviations and Conversion Factors 211.102

SUBPART B: DEFINITIONS

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- Definitions (Repealed) 211.122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

Aerosol Can Filling Line 211.270 211.290 Afterburner Air Contaminant 211.310 Air Dried Coatings 211.330 211.350 Air Oxidation Process Air Pollutant 211.370 211.390 Air Pollution Air Pollution Control Equipment 211.410 211.430 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 Asphalt Prime Coat 211.590 211.610 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 Capture Device 211.910 211.930 Capture Efficiency 211.950 Capture System Certified Investigation 211.970 211.990 Choke Loading Clean Air Act 211.1010 Cleaning and Separating Operation 211.1050 211.1070 Cleaning Materials 211.1090 Clear Coating Clear Topcoat 211.1110 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 Concentrated Nitric Acid Manufacturing Process 211.1390 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 Dump-Pit Area 211.1830 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 Enamel 211.1970 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 Heavy Metals 211.2890 211.2910 Heavy Off-Highway Vehicle Products 211.2930 Heavy Off-Highway Vehicle Products Coating Heavy Off-Highway Vehicle Products Coating Line 211.2950 211.2970 High Temperature Aluminum Coating 211.2990 High Volume Low Pressure (HVLP) 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 Interior Body Spray Coat 211.3170 211.3190 Internal-Floating Roof Internal Transferring Area 211.3210 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 Open Top Vapor Degreasing 211.4170 211.4190 **Open-Ended Valve** Operator of a Gasoline Dispensing Operation or Operator 211.4210 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 Stationary Emission Unit 211.6350 211.6355 Stationary Gas Turbine 211.6360 Stationary Reciprocating Internal Combustion Engine 211.6370 Stationary Source 211.6390 Stationary Storage Tank Storage Tank or Storage Vessel 211.6410 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 (211.6710 Touch-Up Topcoat Operation 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 Vapor Control System 211.6990 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 (III., Rev. Stat. 1991, ch. 111¹/₂, 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. Req. 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

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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
- 218.119 Applicability for VOL
- 218.121 Storage Containers
- 218.122 Loading Operations
- 218.123 Petroleum Liquid Storage Tanks
- 218.124 External Floating Roofs
- 218.125 Compliance Dates (Repealed)
- 218.126 Compliance Plan (Repealed)

SUBPART C: ORGANIC EMISSIONS FROM MISCELLANEOUS EQUIPMENT

- Section
- 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
- 218.211 Recordkeeping and Reporting

SUBPART G: USE OF ORGANIC MATERIAL

Section

- 218.301 Use of Organic Material
- 218.302 Alternative Standard
- 218.303 Fuel Combustion Emission Units
- 218.304 Operations with Compliance Program

SUBPART H: PRINTING AND PUBLISHING

- 218.401 Flexographic and Rotogravure Printing
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- 218.405 Heatset-Web-Offset Lithographic Printing: Applicability
- <u>218.406</u> Provisions Applying to Heatset Web Offset Lithographic Printing Prior to March 15, 1996
- 218.407 Emission Limitations and Control Requirements for
- <u>Lithographic Printing Lines On and After March 15, 1996</u> 218.408 <u>Compliance Schedule for Lithographic Printing On and</u>
- After March 15, 1996 218 409 - Westing for Lithographic Printing On and After Ma
- <u>218.409</u> <u>Testing for Lithographic Printing On and After March</u> <u>15, 1996</u>
- 218.410 Monitoring Requirements for Lithographic Printing
- 218.411 Recordkeeping and Reporting for Lithographic Printing
- <u>218.412</u> <u>Recordkeeping and Reporting for Fountain and Cleaning</u> Solution Stricter Limits

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

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- 218.421 General Requirements
- 218.422 Inspection Program Plan for Leaks
- 218.423 Inspection Program for Leaks
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- 218.428 Open-Ended Valves
- 218.429 Standards for Control Devices
- 218.430 Compliance Date (Repealed)

SUBPART R: PETROLEUM REFINING AND RELATED INDUSTRIES; ASPHALT MATERIALS

Section

- 218.441 Petroleum Refinery Waste Gas Disposal
- 218.442 Vacuum Producing Systems
- 218.443 Wastewater (Oil/Water) Separator
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- 218.445 Leaks: General Requirements
- 218.446 Monitoring Program Plan for Leaks
- 218.447 Monitoring Program for Leaks
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SUBPART S: RUBBER AND MISCELLANEOUS PLASTIC PRODUCTS

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218.461	Manufacture of Pneumatic Rubber Tires
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218.464	Emission Testing
218.465	Compliance Dates (Repealed)

218.466 Compliance Plan (Repealed)

SUBPART T: PHARMACEUTICAL MANUFACTURING

- 218.480 Applicability
- 218.481 Control of Reactors, Distillation Units, Crystallizers, Centrifuges and Vacuum Dryers
- 218.482 Control of Air Dryers, Production Equipment Exhaust Systems and Filters

- 218.483 Material Storage and Transfer
- 218.484 In-Process Tanks
- 218.485 Leaks
- 218.486 Other Emission Units
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- 218.488 Monitoring for Air Pollution Control Equipment
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SUBPART V: AIR OXIDATION PROCESSES

Section

- 218.521 Definitions (Repealed)
- 218.525 Emission Limitations for Air Oxidation Processes
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SUBPART W: AGRICULTURE

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218.541 Pesticide Exception

SUBPART X: CONSTRUCTION

Section

- 218.561 Architectural Coatings
- 218.562 Paving Operations
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SUBPART Y: GASOLINE DISTRIBUTION

Section

- 218.581 Bulk Gasoline Plants
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- 218.583 Gasoline Dispensing Operations Storage Tank Filling Operations
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SUBPART Z: DRY CLEANERS

- 218.601 Perchloroethylene Dry Cleaners
- 218.602 Applicability
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- 218.604 Compliance Dates (Repealed)
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- 218.606 Exception to Compliance Plan (Repealed)
- 218.607 Standards for Petroleum Solvent Dry Cleaners
- 218.608 Operating Practices for Petroleum Solvent Dry Cleaners
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- 218.610 Testing and Monitoring
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- 218.612 Compliance Dates (Repealed)
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SUBPART AA: PAINT AND INK MANUFACTURING

Section

- 218.620 Applicability
- 218.621 Exemption for Waterbase Material and Heatset-Offset Ink
- 218.623 Permit Conditions (Repealed)
- 218.624 Open Top Mills, Tanks, Vats or Vessels
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- 218.636 Compliance Schedule
- 218.637 Recordkeeping and Reporting

SUBPART BB: POLYSTYRENE PLANTS

Section

- 218.640 Applicability
- 218.642 Emissions Limitation at Polystyrene Plants
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AUTHORITY: Implementing Section 10 and authorized by Section 28.5 of the Environmental Protection Act (Ill. Rev. Stat. 1991, ch. 111¹/₂, 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 _____, effective ______, effective ______,

SUBPART H: PRINTING AND PUBLISHING

Section 218.405 Heatset Web Offset Lithographic Printing: <u>Applicability</u>

a) Applicability

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- <u>Ha</u>) Until March 15, 1996, The limitations of subsection (b) belowSection 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. 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 (c)(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 (c) below.
- c) 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.

where:

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/1 (lbs VOM/gal) of solids;
- Total volume of solids for all **P**inks that can potentially be applied each year on the printing line in units of 1/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;

- C = 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.

- <u>c)</u> 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.
- <u>d)</u> 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 ____

<u>Section 218.406</u> <u>Provisions Applying to Heatset Web Offset</u> <u>Lithographic Printing Prior to March 15, 1996</u>

- Emission Standards and Limitations. No owner or <u>a)</u> 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:
 - <u>A)</u> 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:

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

100

<u>where:</u>

D

- E_p = Total maximum theoretical emissions of VOM from one heatset web offset printing line in units of kg/yr (lbs/yr);
- <u>A</u> = <u>Weight of VOM per volume of</u> <u>solids of ink with the highest</u> <u>VOM content as applied each</u> <u>year on the printing line in</u> <u>units of kg VOM/1 (lbs</u> <u>VOM/gal) of solids;</u>
- Total volume of solids for all В ---inks that can potentially be applied each year on the printing line in units of <u>l/year (gal/yr). The</u> 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;
- <u>C</u> = <u>The weight percent VOM of the</u> <u>fountain solution with the</u> <u>highest VOM content;</u>
 - 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;
- <u>G</u> = <u>The greatest volume of cleanup</u> <u>material or solvent used in</u> <u>any 8-hour period; and</u>
- <u>H</u> = <u>The highest fraction of</u> <u>cleanup material or solvent</u> <u>which is not recycled or</u> <u>recovered for offsite disposal</u> <u>during any 8-hour period.</u>
- 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
 - <u>ii)</u> 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;
 - <u>C)</u> 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;
 - <u>ii)</u> Any record showing a violation of subsection (a)(1) of this Section shall be reported by sending a copy of such

<u>record to the Agency within 30 days</u> <u>following the occurrence of the</u> <u>violation; and</u>

- 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:
 - <u>i)</u> The VOM content of the fountain solution used each day on each printing line;
 - <u>ii) A log of operating time for the control</u> <u>device and the associated printing line;</u> <u>and</u>
 - iii) A maintenance log for the control device

<u>detailing all routine and non-routine</u> <u>maintenance performed including dates</u> <u>and duration of any outages;</u>

- <u>C)</u> 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.
- <u>Compliance Schedule.</u> 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

- <u>Section 218.407</u> <u>Emission Limitations and Control Requirements</u> for Lithographic Printing Lines On and After <u>March 15, 1996</u>
 - 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:
 - <u>A)</u> The total VOM content in the as-applied fountain solution meets one of the following conditions:
 - i) <u>1.6 percent or less, by volume;</u>
 - 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
 - <u>iii) 5 percent or less, by volume, and the</u> <u>as-applied fountain solution contains no</u> <u>alcohol;</u>
 - 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;

- <u>C)</u> 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;
- <u>2)</u> 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:
 - <u>A)</u> 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:
 - <u>A)</u> 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 accordanace with this plan is approved by the Agency and USEPA as federally enforceable permit conditions.
- (Source: Added at _____ Ill. Reg. _____, effective _____
- <u>Section 218.408</u> <u>Compliance Schedule for Lithographic Printing</u> <u>On and After March 15, 1996</u>
 - 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 ______)

<u>Section 218.409</u> <u>Testing for Lithographic Printing On and</u> <u>After March 15, 1996</u>

- 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:
 - <u>A)</u> 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
 - <u>C)</u> Due to the high efficiency of the control device, the anticipated VOM concentration at the control device exhaust is 50 ppmv or

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

- 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.
- <u>c)</u> 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 _____)

- <u>Sections 218.410</u> <u>Monitoring Requirements for Lithographic</u> <u>Printing</u>
 - 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:
 - <u>A)</u> For a fountain solution to which VOM is not added automatically, take a sample of the asapplied 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
- With a conductivity meter if it is ii) 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.
- <u>c)</u> 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.
- <u>d)</u> <u>Other Control Devices for Heatset Web Offset</u> <u>Lithographic Printing Line(s)</u>

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) <u>Cleaning Solution</u>
 - 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 ____

<u>Section 218.411</u> <u>Recordkeeping and Reporting for Lithographic</u> <u>Printing</u>

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:
 - <u>A) A declaration that the source is exempt from</u> 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;
- Either a declaration that the source, through <u>C)</u> 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;
 - <u>C)</u> 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:
 - <u>A)</u> 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) (F) 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

- 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:
 - <u>A</u> 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
 - <u>C)</u> 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:
 - <u>A)</u> Afterburner or other approved control device monitoring data in accordance with Section 218.410(c) or (d) of this Subpart, as applicable;
 - <u>B)</u> <u>A log of operating time for the afterburner</u> or other approved control device, monitoring equipment, and the associated printing line;

- <u>C)</u> A maintenance log for the afterburner or other approved control device and monitoring equipment detailing all routine and nonroutine 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;
- <u>4)</u> 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.
- <u>c)</u> 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:
 - <u>A)</u> Identification of each lithographic printing line at the source, by type, e.g., heatset web offset, non-heatset web offset, or sheetfed offset;
 - <u>B)</u> 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;
 - <u>ii)</u> 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;
 - <u>ii)</u> <u>Calculated VOM content of the as-applied</u> <u>fountain solution; and</u>
 - 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
 - <u>ii) A maintenance log for the temperature</u> 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.

- <u>d)</u> 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:
 - <u>A)</u> <u>Identification of each VOM-containing</u> <u>cleaning solution used on each lithographic</u> <u>printing line;</u>
 - 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 VOMcontaining 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) <u>A description of the practices that assure</u> 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:
 - <u>i)</u> 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) <u>A calibration log for the automatic</u> 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:
 - <u>i)</u> <u>The name and identification of each</u> <u>cleaning solution;</u>
 - <u>ii)</u> Date and time of preparation, and each subsequent modification, of the batch;
 - <u>iii)</u> 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;
- <u>C)</u> 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:
 - <u>i)</u> The name and identification of each cleaning solution;
 - <u>ii)</u> Date and time of preparation, and each subsequent modification, of the batch;
 - <u>iii)</u> 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 _____)

- <u>Section 218.412</u> <u>Recordkeeping and Reporting for Fountain and</u> <u>Cleaning Solution Stricter Limits</u>
 - <u>a)</u> 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 sheetfed 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;
 - <u>2)</u> <u>Collect and record the following information for</u> <u>each 75% Fountain Solution used on each</u> <u>lithographic printing line:</u>
 - <u>A)</u> 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;
 - <u>C)</u> 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
 - <u>D)</u> 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.
- <u>c)</u> 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 asused 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.

- <u>d)</u> 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:
 - <u>A)</u> <u>Identification of the lithographic printing</u> <u>line(s) at the source to which the 75%</u> <u>Cleaning Solution is applied; and</u>
 - <u>B)</u> 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;
 - <u>2)</u> <u>Collect and record the following information for</u> <u>75% Cleaning Solution used on each lithographic</u> <u>printing line:</u>
 - <u>A) The name and identification of each 75%</u> <u>Cleaning Solution, recorded each month;</u>
 - 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
 - <u>D)</u> 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

- The rules of this Subpart, except for Sections 218.483 a) 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:
 - 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.
- 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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AUTHORITY: Implementing Section 10 and authorized by Section 28.5 of the Environmental Protection Act (Ill. Rev. Stat. 1991, ch. 111¹/₂, 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
- <u>Ha</u>) Until March 15, 1996, <u>T</u>the limitations of <u>subsection</u> (b) <u>belowSection 219.406 of this Subpart</u> 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 <u>subject</u> source <u>subject to the</u> <u>requirements of this Subpart</u>. All sources with heatset web offset lithographic printing lines are <u>subject</u> sources <u>subject to the requirements of this Subpart</u> 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. 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 219.406

<u>of this Subpart</u> 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.
- c) 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.

where:

- Ep = 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/1 (lbs VOM/gal) of solids; Total volume of solids for all ₽ inks that can potentially be applied each year on the printing line in units of 1/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; The weight percent VOM of the fountain solution with the highest VOM content; The total volume of fountain Ð solution that can potentially be used each year on the printing line in units of 1/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; Weight of VOM per volume of F 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;
- C = 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 Sectionshall 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 (c) (3) of this Section.

- <u>c)</u> 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.
- <u>d)</u> 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 ____).

<u>Section 219.406</u> <u>Provisions Applying to Heatset Web Offset</u> <u>Lithographic Printing Prior to March 15, 1996</u>

- Emission Standards and Limitations. No owner or <u>a)</u> 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:
 - <u>A)</u> 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:

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

<u>where:</u>

- <u>E</u>_p = <u>Total maximum theoretical</u> <u>emissions of VOM from one</u> <u>heatset web offset printing</u> <u>line in units of kg/yr</u> <u>(lbs/yr);</u>
- <u>A</u> = 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;
- Total volume of solids for all В ----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;
- <u>C</u> = <u>The weight percent VOM of the</u> <u>fountain solution with the</u> <u>highest VOM content;</u>
- D The total volume of fountain _ solution that can potentially be used each year on the printing line in units of l/yr (qal/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;
 - Weight of VOM per volume of material for the cleanup material or solvent with the

F

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

- <u>G</u> = <u>The greatest volume of cleanup</u> <u>material or solvent used in</u> any 8-hour period; and
- <u>H</u> = <u>The highest fraction of</u> <u>cleanup material or solvent</u> <u>which is not recycled or</u> <u>recovered for offsite disposal</u> <u>during any 8-hour period.</u>
- 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
 - <u>ii)</u> 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;
 - <u>ii) A log of operating time for the control</u> <u>device, monitoring equipment and the</u> <u>associated printing line; and</u>
 - 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;
- <u>C)</u> 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
 - <u>iii) At least 30 calendar days before</u> <u>changing the method of compliance with</u>

- 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;
 - <u>ii) A log of operating time for the control</u> <u>device and the associated printing line;</u> <u>and</u>
 - iii) A maintenance log for the control device detailing all routine and non-routine maintenance performed including dates and duration of any outages;
 - <u>C)</u> 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.
- - 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

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

- <u>a)</u> 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:
 - <u>A)</u> 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
 - <u>iii) 5 percent or less, by volume, and the</u> <u>as-applied fountain solution contains no</u> <u>alcohol;</u>
 - 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;
 - <u>C) An afterburner is installed and operated so</u> 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
- <u>E)</u> 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) <u>Cause or allow the operation of any sheet-fed</u> offset lithographic printing line unless:
 - <u>A) The VOM content of the as-applied fountain</u> 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) <u>Cause or allow the use of a cleaning solution on</u> any lithographic printing line unless:
 - <u>A)</u> 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.

- 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 _____

<u>Section 219.408</u> <u>Compliance Schedule for Lithographic Printing</u> <u>On and After March 15, 1996</u>

- 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 _____

<u>Section 219.409</u> <u>Testing for Lithographic Printing On and</u> <u>After March 15, 1996</u>

a) <u>resting to demonstrate compliance with the requirements</u> 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.
- <u>c)</u> 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.
- <u>d)</u> <u>Testing to demonstrate compliance with the requirements</u> of Section 219.407(b) of this Subpart shall be

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

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 _____)

<u>Sections 219.410</u> <u>Monitoring Requirements for Lithographic</u> <u>Printing</u>

- 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 asapplied 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:

- 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
- 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
- <u>ii)</u> 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

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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.

<u>c)</u> <u>Afterburners For Heatset Web Offset Lithographic</u> <u>Printing Line(s)</u>

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.
- <u>d)</u> 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) <u>Cleaning Solution</u>
 - 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:
 - <u>A)</u> 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 ____

<u>Section 219.411</u> <u>Recordkeeping and Reporting for Lithographic</u> <u>Printing</u>

- 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:
 - <u>A) A declaration that the source is exempt from</u> <u>the control requirements in Section 219.407</u> <u>of this Part because of the criteria in</u> <u>Section 219.405(d) of this Subpart;</u>

- 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:
 - To calculate actual daily emissions of i) 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;
 - To determine the VOM content of the ii) 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
 - To determine VOM emissions from fountain iv) solutions and cleaning solvents used on lithographic printing line(s) at the source, no retention factor is used;
- Either a declaration that the source, through C) federally enforceable permit conditions, has limited its maximum theoretical emissions of VOM from all heatset web offset lithographic printing lines (including solvents used for

B)

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:
 - <u>A)</u> The name and identification of each fountain solution additive, ink, and cleaning solvent used on each lithographic printing line, recorded each month;
 - <u>B)</u> <u>A daily record which shows whether or not a</u> printing line at the source was in operation on that day;
 - <u>C)</u> 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
 - <u>E)</u> 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:
 - <u>A)</u> 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;
 - <u>C)</u> 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;
 - <u>B)</u> <u>A log of operating time for the afterburner</u> <u>or other approved control device, monitoring</u> <u>equipment, and the associated printing line;</u>
 - <u>C)</u> <u>A maintenance log for the afterburner or</u> <u>other approved control device and monitoring</u> <u>equipment detailing all routine and non-</u> <u>routine maintenance performed, including</u> <u>dates and duration of any outages; and</u>
 - 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;

- <u>4)</u> 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.
- <u>c)</u> 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:
 - <u>A)</u> Identification of each lithographic printing line at the source, by type, e.g., heatset web offset, non-heatset web offset, or sheetfed offset;
 - <u>B)</u> The VOM content limitation with which each fountain solution will comply;
 - <u>C)</u> 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;
 - <u>D)</u> Identification of the method that will be used to demonstrate continuing compliance with the applicable limitation, e.g., a refractometer, hydrometer, conductivity

- 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;
 - <u>ii)</u> 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:

- <u>i)</u> Date and time of preparation and each subsequent modification of the batch;
- <u>ii)</u> <u>Calculated VOM content of the as-applied</u> <u>fountain solution; and</u>
- 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.
- <u>d)</u> 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:
 - <u>A)</u> <u>Identification of each VOM-containing</u> <u>cleaning solution used on each lithographic</u> <u>printing line;</u>
 - <u>B)</u> The limitation with which each VOM-containing cleaning solution will comply, i.e., the VOM content or vapor pressure;
 - C) Initial documentation that each VOMcontaining cleaning solution will comply with the applicable limitation, including copies of manufacturer's specifications, test results, if any, formulation data and calculations;
 - <u>D)</u> <u>Identification of the method that will be</u> <u>used to demonstrate continuing compliance</u> <u>with the applicable limitations;</u>
 - E) A sample of the records that will be kept pursuant to Section 219.411(d)(2) of this Subpart; and
 - F) <u>A description of the practices that assure</u> <u>that VOM-containing cleaning materials are</u> <u>kept in closed containers;</u>
- 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:
 - <u>i)</u> The name and identification of each cleaning solution;

- <u>ii)</u> 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) <u>A calibration log for the automatic</u> 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:
 - <u>i)</u> The name and identification of each cleaning solution;
 - <u>ii)</u> Date and time of preparation, and each subsequent modification, of the batch;
 - <u>iii)</u> 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;
- <u>C)</u> 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:

- <u>i)</u> The name and identification of each cleaning solution;
- <u>ii)</u> Date and time of preparation, and each subsequent modification, of the batch;
- <u>iii)</u> The molecular weight, density, and VOM <u>composite partial vapor pressure of each</u> <u>cleaning solvent, as determined in</u> <u>accordance with Section 219.409(e) of</u> <u>this Subpart;</u>
- 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;

<u>e)</u> 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 _____)

<u>Section 219.412</u> <u>Recordkeeping and Reporting for Fountain and</u> <u>Cleaning Solution Stricter Limits</u>

- <u>a)</u> 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 sheetfed 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;
- <u>2)</u> <u>Collect and record the following information for</u> <u>each 75% Fountain Solution used on each</u> <u>lithographic printing line:</u>
 - <u>A)</u> 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;
 - <u>C)</u> 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
 - <u>D)</u> 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.

- <u>c)</u> 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 asused 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.
- <u>d)</u> 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:

- <u>A)</u> 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;
- <u>2)</u> <u>Collect and record the following information for</u> <u>75% Cleaning Solution used on each lithographic</u> <u>printing line:</u>
 - <u>A)</u> 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
 - <u>C)</u> 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

- The rules of this Subpart, except for Sections 219.483 a) 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 $\frac{3m}{2m}$ day of <u>Manual</u>, 1994, by a vote of <u>6-0</u>.

Forothy Mr. Kunn

Dorothy M/ Gunn, Clerk Illinois Pollution Control Board