ILLINOIS POLLUTION CONTROL BOARD February 23, 1995

IN THE MATTER OF:)	
15% ROP PLAN CONTROL MEASURES)	
FOR VOM EMISSIONS - PART V:)	R94-31
CONTROL OF VOLATILE ORGANIC	Ĵ	(Rulemaking - Air)
COMPOUND EMISSIONS FROM	j	. 2 .
LITHOGRAPHIC PRINTING:)	
AMENDMENTS TO 35 ILL. ADM.	j	
CODE PARTS 211, 218, AND 219.	j	

PROPOSED RULE. SECOND 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.

The Board's responsibility in this matter arises from the Environmental Protection Act (Act) (415 ILCS 5/1 et seq. (1992)). The Board is charged therein to "determine, define and implement the environmental control standards applicable in the State of Illinois" (415 ILCS 5/5(b)). This proposal was filed pursuant to Section 28.5 of the Act (415 ILCS 5/28.5 (1992)), commonly referred to as "Fast Track Rulemaking". Section 28.5 of the Act requires the Board to proceed with rulemaking under set timeframes. The Board has no discretion to adjust these time frames under any circumstances. Today the Board acts to send this proposal to second notice. The Clerk shall cause the filing of the attached order with the Joint Committee on Administrative Rules pursuant to Section 5 of the Administrative Procedures Act (APA). (5 ILCS 100/1005-40 (1992).)

PROCEDURAL HISTORY

Pursuant to Section 28.5 of the Act, the Board sent this proposal to first notice under the APA without commenting on its merits on November 3, 1994. The proposal was published in the Illinois Register on December 2, 1994 as follows: Section 211 was published at 18 Ill.Reg. 17071; Section 218 was published at 18 Ill. Reg 17084; and Section 219 was published at 18 Ill. Reg. 17124. Hearings were held in this matter on December 15, 1994 and January 9, 1995, in Chicago, Illinois, before hearing officer Kevin Desharnais. The comment period closed January 27, 1995. The Board received 6 public comments, which are discussed in detail below. On January 30, 1995, the Board received the final comments from the Agency, which were accompanied by a motion to correct the transcript. The motion to correct the transcript is granted.

PROPOSAL

Section 182(b)(1) of the CAA, as amended in 1990, requires all moderate and above ozone nonattainment areas (NAAs) to achieve a 15% reduction of 1990 emissions of VOM by 1996. This rulemaking is Phase V of Illinois' 15% Rate of Progress (ROP) plan to achieve that reduction. The proposal represents a group of measures which are intended to reduce VOM emissions in the Metro-East area (moderate nonattainment) and the Chicago area (severe nonattainment).

The Agency expects control of VOM emissions from lithographic printing to reduce 1996 VOM emissions by 4.0 TPD in the Chicago NAA and by minimal amounts in the Metro-East NAA. The proposed rules are based on the draft Control Techniques Guideline (CTG) and the Alternate Control Techniques (ACT) document issued by USEPA to assist states in developing rules for controlling emissions from offset lithographic printing. The Agency modified the proposal in response to comments from affected sources prior to its submittal to the Board.

The Agency's proposal seeks to amend 35 Ill. Adm. Code 218 and 219 to include control measures for the control of VOM emissions 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. Finally, the proposal includes minor amendments to 35 Ill. Adm. Code Sections 218.480 and 219.480, which clarify amendments 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 regulations contain several different types of restrictions designed to reduce emissions from lithographic printing operations. These restrictions include limitations on VOM content of fountain solutions, limitations on VOM content of cleaning solutions, handling requirements for cleaning materials, and for heatset web offset lithographic printing operations, the use of an afterburner or other emission control device. Non-heatset web offset lithographic printing lines are offered two different options for meeting the restrictions on fountain solutions. Their as-applied fountain solution must either: 1) have no more than 5% VOM, or 2) have no more than 8% VOM if the fountain solution reservoir is refrigerated below 60°F. Heatset web offset lithographic printing lines are given three options. Their as-applied fountain solution must: 1) have a VOM content of 1.6% or less, by volume; or 2) a VOM content of 3% or less, by volume, if the fountain solution is refrigerated below 60°F; or 3) have a VOM content of 5% or less, by volume, if the fountain solution contains no alcohol.

Heatset web offset lithographic printing operations must also use an afterburner, or other approved control device that satisfies one of the following two conditions: 1) reduces VOM emissions from the press dryer exhaust vent by 90% by weight, or 2) has a maximum control device exhaust outlet VOM concentration of 20 parts per million by volume (ppmv) as carbon.

The proposal also includes emissions limitations for cleaning solutions used on lithographic printing lines, and certain handling or "housekeeping" requirements for cleaning materials. All cleaning solutions must have a VOM content of under 30%, unless the vapor pressure of the cleaning solution is less than 10 millimeters of mercury (mmHg) at 20°C. All cleaning materials and used towels must be kept in closed containers.

In addition to the control measures, the proposed rules also establish recordkeeping and reporting requirements. Facilities are required to record information regarding fountain solutions, cleaning operations, and for heatset web offset lithographic printing lines, information concerning control devices. These records must be kept for three years and must be made available to the Agency upon request.

APPLICABILITY

The proposed rules would establish control measures for reduction of VOM which would apply to all lithographic printing lines at a source (both heatset and non-heatset) 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 The control requirements would also apply to sources (lbs/day). with heatset web offset lithographic printing lines at a source if the VOM emissions from these lines meet the applicability criteria currently in Section 218.405(a)(1)(A) or 219.405(a)(1)(A), which are renumbered in this proposal as Section 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.

The Agency has identified 113 facilities with lithographic printing operations in the Chicago NAA, and 1 source in the Metro-East NAA, which are potentially affected by this rule. The minor amendment to Section 218.480 is expected to affect only one facility in the Chicago NAA, Abbott Laboratories. The proposed amendment to Section 219.480 is being proposed in order to assure consistency between Parts 218 and 219.

TESTIMONY AND COMMENTS

The Board received the following six public comments in this rulemaking:

- #1 Comments of the Illinois Department of Commerce and Community Affairs;
- #2 Comments of Connie Bradway, Index Department, Administrative Code Division, Office of the Secretary of State;
- #3 Comments of the American Lung Association of Metropolitan Chicago and the Citizens Commission for Clean Air in the Lake Michigan Basin;
- #4 Comments of the City of Chicago;
- #5 Comments of General Business Forms; and
- #6 Agency Response to Comments.

In addition, the following individuals testified at the Board's January 9, 1995 hearing:

- 1) Mr. John Mudge, General Business Forms;
- 2) Mr. Hejmadi (Marty) Prabhu, Solar Press, Inc.;
- 3) Ms. Eva E. Kim, Printing Industry of Illinois and Indiana (PII); and
- 4) Mr. Mark A. Horne, R.R. Donnelley & Sons Co. (Donnelley).

The Board has considered all public comments, as well as all testimony and exhibits, in making its decisions in this matter. The following is a summary of the major issues raised in comments and during the hearing process. 5

A. Issues Raised by PII and Donnelley

A number of issues were raised by PII and Donnelley during the hearings process and in discussions with the Agency. The Agency responded to these issues and has proposed several changes to the rule based upon them in its response to comments.

 Source-Wide Recordkeeping and Reporting for Exempt Sources

PII and Donnelley proposed that exempt sources be allowed to keep records on a source-wide basis, rather than a line-by-line basis. (Tr. 1 at 38, 46.) Additionally, PII proposed that exempt sources be allowed to use purchase and inventory records to determine total VOM emissions when determining applicability for exempt sources.

The Agency agrees with the changes proposed by PII and Donnelley, and has proposed language which would allow exempt sources to keep records only on a source-wide basis. (Tr. 1 at 39; Comment #6 at 4 - 5.)

We accept the Agency's proposed modifications and have incorporated them into the second notice proposal. (See Sections 218.411(a)(2) and 219.411(a)(2).)

2) Use of Purchase and Inventory Records to Determine Applicability for Exempt Sources

PII proposed to the Agency that the rule be revised to allow the use of purchase and inventory records for calculating total VOM emissions when determining applicability. PII requested that this alternative be allowed for both exempt sources and regulated sources.

The Agency agrees that the proposal should be modified to allow exempt sources, only, to use purchase and inventory records to demonstrate that their daily emissions remain below the applicability threshold, and has proposed language which would allow such use. However, the Agency asserts that these records do not demonstrate compliance for regulated facilities. The Agency asserts that these records do not provide the Agency with the type of information necessary to determine a regulated source's compliance, and would allow averaging of the fountain solution VOM content. Since this rule is based on VOM content limitations, records which verify the VOM content of each batch must be maintained.

PII also proposed that a specific equation be adopted for use in determining daily emissions. The Agency states its belief that the proposed changes address PII's concerns, and that the requested revision is no longer necessary. (Comment #6 at 5.) The Board accepts the Agency's proposed modifications and has incorporated them into the second notice proposal. (See Sections 218.411(a)(2)(B) and 219.411(a)(2)(B).) The Board also finds that there is insufficient technical support for the alternative equation proposed by PII.

3) Recordkeeping as an Option Equivalent to Monitoring of Fountain Solution VOM Content

PII and Donnelley both requested that, for monitoring the VOM content of fountain solution, recordkeeping be allowed as an option equivalent to measurement using such devices as a refractometer, hydrometer, or conductivity meter. The Agency proposal as originally written would have required USEPA and Agency approval before recordkeeping could be used as an equivalent option. The Agency agrees with PII and Donnelley that recordkeeping should be allowed as an equivalent option for monitoring the VOM content of a fountain solution, and has proposed modified language to allow for such use. (Tr. 2 at 94; Comment #6 at 6.)

We accept the Agency's proposed modifications and have incorporated them into the second notice proposal. (See Sections 218.410(b) and 219.410(b).)

4) Removing Section 218.412 and 219.412 - Modified Recordkeeping

Donnelley has suggested deleting from the proposal Sections 218.412 and 219.412, which allow for modified recordkeeping. (Tr. 1 at 42 - 43.) Donnelley has indicated that these sections will make compliance more complicated for the sources it was intended to benefit. The Agency states that, in recent phone conversations, PII has expressed agreement with Donnelley's position. (Comment #6 at 13.)

The Agency states that these sections were drafted with the intent of making recordkeeping easier for those sources which could maintain a VOM content for fountain solutions or cleaning solutions significantly lower than that required by the regulations. However, the Agency has no objection to removing these sections, since the regulated community has indicated that these sections will not benefit the sources they were intended to aid. (Agency Final Response to Comments at 13.) The Agency has proposed amended language which would remove from the rule these sections and all references thereto.

The Board accepts the Agency's proposed modifications and has incorporated them into the second notice proposal. (See Section 218.405(c), 218.405(d), 218.408(a), 218.410(e)(1)(B), 218.410(e)(2), 219.405(c), 219.405(d), 219.408(a), 219.410(e)(1)(B), 219.410(e)(2), 211.474, and the Table of Contents for Parts 218 and 219.)

5) Donnelley's Request to Omit USEPA Approval of Alternative Methods of Compliance

The Agency asserts that Donnelley requested that the regulation be modified to remove the requirement of USEPA approval for alternative methods of compliance with control, recordkeeping, reporting or monitoring requirements. (See Tr. 1 at 65 - 69; Tr. 2 at 172.) The Agency believes that by making recordkeeping an equal option for exempt sources and eliminating Sections 218.412 and 219.412, Donnelley's major concerns have been addressed. In all other instances, USEPA approval is necessary to obtain approval for inclusion in the SIP.

The Board finds that no additional modifications to address this concern are justified.

6) Batch Recordkeeping and Reporting for Fountain Solutions

PII and Donnelley both raised questions concerning batch recordkeeping and reporting on a fountain solution, rather than on a line-by-line basis. (Tr. 1 at 33-36, 57-59.) The Agency stated at the second hearing that its intention was always to require recordkeeping on a per batch basis for fountain solutions. (See Tr. 2 at 136-142.) However, the Agency has proposed revisions to the initial proposal which are intended to make the proposal clearer on this point. (Comment #6 at 6.)

We accept the Agency's proposed modifications and have incorporated them into the second notice proposal. (See Sections 218.411(c) and 219.411(c).)

7) 90-Day Time Period for Stack and Other Tests to Determine Compliance

The Agency states that both PII and Donnelley have requested that sources be given ninety days to perform a stack test or other test to determine compliance with the heatset web offset control device requirements upon request from the Agency. (Tr. 2 at 94; Comment #6 at 6 - 7.) The Agency has no objection to PII and Donnelley's request, and has made proposed revisions to allow for such a time period.

We accept the Agency's proposed modifications and have incorporated them into the second notice proposal. (See 218.409(a) and 219.409(a).)

8) 30-Day Notification Period upon Changing Compliance Method

During the second hearing, Donnelley requested removal of those portions of the proposal requiring notification to the Agency thirty days prior to changing the fountain solution or cleaning solution VOM content limits. (Tr. 2 at 169 - 170.) The Agency responded that such information was necessary primarily for its air quality assessments. (Tr. 2 at 178.)

At hearing, Board Member McFawn questioned whether the Agency's need for quantification of emissions could be satisfied by subsequent reporting of changes in a facility's compliance method. (Tr. 2 at 181 - 182.) In its final comments, the Agency agreed that requiring notification within thirty days after such a change has been made would accomplish the same goal, and has proposed revisions incorporating this suggestion. (Comment #6 at 7 - 8.)

We accept the Agency's proposed modifications and have incorporated them into the second notice proposal. (See Sections 218.411(c)(4), 218.411(d)(4), 219.411(c)(4), and 218.411(d)(4).)

9) Calculating Emissions for 100 Pounds per Day Threshold

At the first hearing, PII requested that the Agency consider removing the word "actual" from those sections where it is used in conjunction with an applicability threshold. (Tr. 1 at 55.)PII was specifically concerned with the 100 pounds per day (<u>Id.</u>) PII stated applicability threshold in Section 218.411. that the method used to calculate emissions does not necessarily result in a computation of actual emissions. (<u>Id.</u>) This is because the method for calculating daily emissions in Section 218.411(a)(1)(B) specifies that daily emissions are calculated by dividing monthly emissions by the number of days during the calendar month that printing lines at the source were in The result therefore may not equal any particular operation. day's "actual" emissions.

The Agency states that, since the word "actual" was originally included at the request of PII, the Agency has no objection to its removal. The Agency has proposed revisions to all sections where "actual" was used in connection with an applicability threshold. (Tr. 1 at 55 - 56; Comment #6 at 8.)

We accept the Agency's proposed modifications and have incorporated them into the second notice proposal. (See Sections 218.405(d)(2), 218.411(a), 219.405(d)(2), and 219.411(a).) 10) Only Lithographic Inks Included in Emissions Calculation for Determining Applicability

After the first hearing, Donnelley submitted several proposed language changes to the Agency, which were not submitted to the Board. The Agency has agreed to recommend only one of the proposed changes: specifying that only lithographic inks be included in calculations of VOM emissions for purposes of determining applicability. (Comment #6 at 8 - 9.)

The Board finds that this change clarifies the purpose of the rule, and therefore has included it in this second notice proposal. (See 218.409(b)(6), 218.411(a), 219.409(b)(6), and 219.411(a).)

11) Using Method 25A to Calculate Add-On Control Equipment Emissions - Retesting and Emission Limitations

At hearing, both PII and Donnelley requested changes to limitations on the use of Method 25A in performing a stack test, so as to allow a retest using Method 25A if the test showed a VOM concentration over 50 ppmv. (Tr. 1 at 40 - 42; Tr. 2 at 201 -202.) The first notice proposal required such a source to conduct a retest using Method 25. Furthermore, PII and Donnelley requested that the maximum exhaust outlet VOM concentration for afterburners on heatset web offset lithographic printing lines be raised from 20 ppmv to 50 ppmv.

After discussing the matter with USEPA, the Agency has proposed changes which would allow a source to retest using either Method 25 or Method 25A, provided that if the stack test again showed a VOM concentration over 50 ppmv, the source must then retest using Method 25. (Comment #6 at 9.) This would allow a source which was only over the 50 ppmv cutoff by a small amount to correct any possible problems and possibly avoid a retest with Method 25. The Agency states that USEPA has agreed to the proposed revision. (Id.)

The Agency opposes raising the maximum exhaust outlet VOM concentration for afterburners on heatset web offset lithographic printing lines from 20 ppmv to 50 ppmv. The Agency believes that the parties have not provided the technical justification to support such a change, and that such a change would not be approved by USEPA. Additionally, the Agency believes that the concerns causing the parties to request the change have been addressed in the proposed changes to the testing methodologies at Sections 218.409(b)(3)(C) and 219.409(b)(3)(C).

We accept the Agency's proposed modifications and have incorporated them into the second notice proposal. (See 218.409(b)(3)(C) and 219.409(b)(3)(C).)

12) Control Efficiency of Condensers

PII requested the creation of a special exemption allowing condensers used as control devices on heatset web offset lithographic printing lines to achieve a control efficiency less than 90%. (Tr. 1 at 51 - 52.) The Agency states that it requested PII to provide supporting technical information, but that PII has not yet done so. (Tr. 1 at 51 - 52; Comment #6 at 10 - 11.) Furthermore, all of the information available to the Agency indicates that no exemption is necessary. (Id.)

The Board finds that no change to the minimum control device efficiency previously found at Section 218.405(b)(1), and now proposed at Section 218.406(a)(1), has been justified in this record.

13) Continuous Recording of Fountain Solution Temperature for Refrigerated Solutions

PII and Donnelley have requested that the requirement for an automatic, continuous recording device attached to the temperature monitor of the fountain solution for refrigerated fountain reservoirs or trays be eliminated. (Tr. 2 at 170-172.) Donnelley stated at hearing that this requirement would require shutdown of a press during maintenance, repair, or malfunction of the recording device.

In its response to comments, the Agency states that the Draft CTG clearly requires a continuous recording device, and this requirement has been confirmed in the ACT and in conversations with the USEPA. (Comment #6 at 11.) Furthermore, the Agency supports this requirement due to its reliability, and points out that similar recording devices are required elsewhere in Parts 218 and 219. (Id. at 11 - 12.) However, the Agency agrees that relief should be provided in the case of recording device malfunction, and has proposed a revision that would allow manual recording of the temperature every two operating hours until the device is back in service, provided the device is repaired or replaced as soon as practicable. (Id. at 12 - 13.)The Agency states that Donnelley has indicated agreement to the proposed changes in subsequent phone conversations with the (Comment #6 at 13.) Agency.

The Board accepts the Agency's proposed modifications and has incorporated them into the second notice proposal. (Sections 218.410(a)(2) and 219.410(a)(2).)

14) Transitional Period

PII and Donnelley have requested a transitional period for a facility to come into compliance after the applicability

threshold has been exceeded. (Tr. 1 at 36-38; Tr. 2 at 171 - 172, 200 - 201.) The Agency responded to this recommendation by pointing out that the regulations contain a compliance date of March 15, 1996, which allows sources to examine their operations to determine if they are subject to the regulations. (Agency Final Response to Comments at 14.) Furthermore, the Agency states that the structure of the rules contemplates that changes which would cause an otherwise exempt source to exceed the applicability threshold can be foreseen, and planned for, by regulated sources. To the extent unforeseen circumstances do occur, temporary relief is available through a provisional variance or variance. (Id. at 14 - 15.)

The Board is persuaded by the Agency's arguments and finds that no change to the rule is necessary to address this issue. The March 15, 1996 effective date provides ample time for sources to determine which requirements are applicable to their facilities, and the availability of variances and provisional variances provides adequate relief for those facilities which become subject to the regulations due to unforeseen circumstances.

15) PII's Suggested Change to MTE Calculation

At the first hearing, PII requested a modification to the method for calculating Maximum Theoretical Emissions (MTE). (Tr. 1 at 54 - 55; see also Exh. 6.) PII's modified equation was based on a formula from the Graphic Arts Technical Foundation. The Agency responded to this proposed change by stating that the equation for calculating MTE is already defined in the The Agency asserts that this equation, which is regulations. currently located at Section 218.405(c)(1)(A)(ii), and which would be located at Section 218.406(b)(1)(A)(ii) in the proposed rule, is based on USEPA's definition. The Agency asserts that, since Illinois' definition must be consistent with USEPA's in order for it to be included in the SIP, revising the method for (Tr. calculating MTE would make the rule unapprovable by USEPA. 1 at 55; Comment #6 at 15 - 16.)

Based on the information submitted in this rulemaking, the Board finds that no change to the calculation of MTE is warranted. PII has provided no technical justification for changing the method for calculating MTE, which was previously included in the Board's regulations and which has been approved by USEPA.

16) PII's Request for a De Minimis Exemption and Donnelley's Questions Concerning Costs for Exempt Sources

At hearing PII requested that the proposed regulations exempt certain printers from recordkeeping requirements, or require only annual, rather than monthly, recordkeeping. (Tr. 1 at 53.) Donnelley also raised concerns about the cost of complying with recordkeeping requirements for exempt sources. (Tr. 1 at 32.) The Agency responds that, based on discussions with the regulated community, the Agency modified the proposal prior to filing its original proposal to allow for monthly, rather than daily, recordkeeping for exempt sources. (Tr. 1 at 32 - 33; Comment #6 at 17.) The Agency does not believe that the recordkeeping requirements can be further relaxed and still be approved by USEPA for inclusion in the SIP. (Tr. 1 at 53 - 54; Comment #6 at 16.)

The Board finds that no change to the minimum recordkeeping requirements for exempt sources is justified.

B. Comments of General Business Forms

General Business Forms (GBF) participated in the hearings and submitted written comments into the record. GBF addressed two main issues in its comments and testimony: 1) changing the applicability scheme to treat heatset web offset and non-heatset web offset printing lines separately; and 2) changing the recordkeeping requirements to allow aggregated recordkeeping by type of line. The Agency responded to each of these issues, and each is discussed in detail below.

 Establishing Separate Applicability Thresholds for Heatset and Non-Heatset Lines

GBF has proposed that the applicability provisions of the proposal be modified to treat heatset web offset lithographic printing lines and non-heatset web offset lithographic printing lines as two separate categories, each with an applicability threshold of potential to emit (PTE) of 25 tons of VOM. GBF asserts the proposed combined threshold of 100 pounds per day would place a substantial economic burden on GBF and other similarly affected sources, by requiring the installation of control equipment. (See Comment #5 at 10.) GBF also argues that since USEPA has recognized differences between different types of offset lithographic printing lines it may support separate regulations for different types of lines. (Id. at 5.)

GBF asserts that the proposed applicability threshold of 100 pounds per day is not required by the CAA, and is inconsistent with the current regulatory scheme. (Id. at 4.) GBF points out that the Agency did not analyze the economic effects of the proposed threshold for affected sources in Illinois. (Id. at 4 - 5.) Furthermore, GBF argues that since the Agency has already raised the applicability threshold from 15 pounds per day to 100 pounds per day, GBF asserts there is no reason the threshold cannot be further raised to 25 TPY. (Id. at 8 - 9.)

The Agency disagrees with GBF's assertion that determining applicability levels based upon combined emissions from all heatset and non-heatset lines is in anyway inconsistent with the current regulations, since non-heatset web offset lithographic printing has not been addressed specifically in any Board regulations prior to this proposal. (Comment #6 at 19.) The Agency also notes that current Illinois regulations place flexographic and rotogravure printing in the same applicability category, despite the fact that the differences between them are greater than those between heatset and non-heatset web offset lithographic printing. (<u>Id.</u> at 19 - 20.) Furthermore, since USEPA considers all lithographic printing to be one source category, the Agency believes USEPA will disapprove a rule wherein applicability for lithographic printing is split. (Id. at The Agency is also concerned that under GBF's suggestion, a 20.) source could emit more than 25 TPY from its combined lithographic printing operations, and therefore have major source status under the CAA, but not be controlled by Illinois air regulations, which is, of course, contrary to the CAA. (Id. at 20 - 21.)

The Agency also points out that GBF has not performed any studies to determine the effect that its suggestion would have on the emission reductions expected to be achieved through this rule. The Agency has concerns that the effect could be substantial and could result in Illinois failing to achieve the necessary reductions to satisfy the 15% ROP Plan. (Id. at 21 -22.) Furthermore, the Agency asserts that, when properly calculated, the control costs for GBF's facility are comparable to those incurred by other sources in the printing and coating industry. (Comment #6 at 25.)

As an alternative to modifying the applicability scheme, GBF suggested that facilities whose emissions are between 100 pounds per day and 50 tons per year be given until March, 1998 to comply. GBF asserts that this would provide additional incentive for these facilities to reduce emissions below the 100 pounds per day threshold. (Comment #5 at 12.)

The Agency opposes such an extension, and counters that such an extension would mean that these reductions could not be included in the 15% ROP Plan. (Comment #6 at 23.) The Agency states that GBF can seek site-specific relief through a variance or an adjusted standard if it believes its situation is unique and merits special consideration. (Id.)

The Board finds that no change to the applicability scheme is warranted based on GBF's suggested changes. As the Agency pointed out, USEPA considers all lithographic printing to be one source category, and there is no indication that it would accept a scheme which treats them differently. GBF has provided no information on what impact its proposed applicability scheme would have on emissions from the industry as a whole, and what effect that would have on emissions reductions to achieve the required 15% reduction. Furthermore, GBF has not shown that the control costs are overly burdensome for the lithographic printing industry as a whole. If GBF believes that its situation is different from the industry as a whole, it can seek sitespecific relief for its facility.

2) GBF's Request for Aggregated Recordkeeping

GBF has requested that recordkeeping requirements in the proposed rule be amended to allow monthly recordkeeping on a plant-wide basis for each category of printing lines. (Comment #5 at 13.) GBF supports the Agency's proposal to allow monthly recordkeeping for exempt sources, and asks that it this type of recordkeeping be allowed for all lithographic printing operations. Alternatively, GBF requests that Section 218.411 be modified to allow monthly recordkeeping for each category of printing line, such as heatset web offset or non-heatset web offset, rather than for each line. (Id.) Within each category, monthly records would be maintained for each fountain solution used. GBF asserts that these alternatives present the most costeffective means for it to comply with the recordkeeping requirements of the proposed rule. (Id.)

The Agency states that the recordkeeping proposed by GBF would not provide the necessary compliance information about a specific batch of fountain solution. (Comment #6 at 27.) The Agency states that, since the proposed rules are based on VOM content limitations, rather than production limitations, it is necessary to maintain information on a source's compliance with those limits. (Id.)

However, the Agency points out that the batch recordkeeping as modified addresses some of GBF's concerns. If a fountain solution batch is mixed and then manually brought to separate printing lines, it can still be considered as one batch for recordkeeping purposes, as long as the destination of the solution is noted in the records. Any subsequent modifications to that batch, made either centrally or at each line, would have to be noted as well. (Id.)

We find that no additional changes to the recordkeeping requirements are warranted based on GBF's comment. As pointed out by the Agency, allowing monthly recordkeeping on a plant-wide basis for each category of printing line would not provide the information necessary to ensure that each batch of fountain solution meets the applicable VOM content limitations. C. Comments of the American Lung Association of Metropolitan Chicago and the Citizens Commission for Clean Air in the Lake Michigan Basin

The American Lung Association of Metropolitan Chicago (ALAMC) and the Citizens Commission for Clean Air in the Lake Michigan Basin (CCCALMB) filed a joint comment. These commentators state that they generally support the emissions limitations contained in the proposal. However, the parties do suggest several changes to the rule.

First, ALAMC and CCCALMB suggest that the Board consider two more stringent measures proposed by the State and Territorial Air Pollution Program Administrators/Association of Local Air Pollution Control Officials (STAPPA/ALAPCO): phasing out relatively volatile alcohols from offset lithographic printing operations, and requiring the use of currently available cleaning solutions with no or very low VOCs. Second, these commentators recommend that the applicability level be set at 15 pounds per day, instead of 100 pounds per day. They assert that smaller lithographic printing operations may be required to further reduce emissions in the future in order to achieve ROP progress, and argue that such levels will be consistent with a rule soon to be adopted in Wisconsin. Finally, these commentators urge the Board to ensure that placing emissions limits on VOMs generally instead of on specific alcohols will not lead to unhealthy emissions of toxic VOMs in the workplace or nearby neighborhoods.

While these comments provide suggestions, no technical support is provided. Thus, the Board finds that no change to the proposed rule is warranted based on these comments.

D. Comments of the City of Chicago

The City of Chicago generally supports the proposed regulations for lithographic printing operations as a necessary step towards reducing VOM emissions in the region. The City specifically states its support for the 100 pounds per day applicability threshold, and the recordkeeping and reporting requirements. The City also states that it has reviewed the comments of the American Lung Association of Metropolitan Chicago and the Citizens Commission for Clean Air in the Lake Michigan Basin recommending changes consistent with those called for by STAPPA/ALAPCO, and asks that the Agency examine the emissions reductions and economic effects that would result from the implementation of the recommended measures. The Agency did not respond to the City's suggestion.

The Board finds that the City's support and elaboration of the ALAMC and CCCALMB suggestions likewise do not provide sufficient justification to warrant the changes suggested. E. Comments of the Illinois Department of Commerce and Community Affairs

The comment from Illinois Department of Commerce and Community Affairs (DCCA) states that DCCA has reviewed the proposal and determined that it will not significantly impact small businesses. DCCA defers to the finding of the Board based on hearings and written public comment to the Board.

F. Comments of the Index Department, Administrative Code Division

The comment of the Index Department, Administrative Code Division suggests various form and typographical corrections which the Board accepts and incorporates into the proposed rules.

G. Minor RACT Amendment to 218.480 and 219.480

This amendment clarifies that pharmaceutical companies that produce both pharmaceutical and pharmaceutical-like products using the same equipment and same processes are only subject to the requirements of Subpart T rather than both Subpart T and Subpart RR of Parts 218 and 219. The only source known to be affected by this proposed revision, Abbott Laboratories, expressed their support for this revision at the first hearing. (Tr. 1 at 69.) No other comments have been received on this issue. The amendments are adopted for second notice.

CONCLUSION

The Board finds that the proposed rules are technically feasible and economically reasonable, and that the rules are necessary to meet the requirements of the Clean Air Act. The Board finds that the record supports proceeding to second notice with the proposed rules as amended.

ORDER

The Board hereby proposes the following amendments to 35 Ill. Adm. Code 211, 218, and 219. The Board directs the Clerk to submit the following amendments to the Joint Committee on Administrative Rules for second notice.

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

PART 211 DEFINITIONS AND GENERAL PROVISIONS

SUBPART A: GENERAL PROVISIONS

Section

- 211.101 Incorporations by Reference
- 211.102 Abbreviations and Conversion Factors

SUBPART B: DEFINITIONS

211.230 211.250 211.270 211.290 211.310 211.330	Accelacota Accumulator Acid Gases Actual Heat Input Adhesive Aeration Aerosol Can Filling Line Afterburner Air Contaminant Air Dried Coatings
211.350	
211.370	
211.390	
211.410	·
211.430	Air Suspension Coater/Dryer
211.450 211.470	Airless Spray Air Assisted Airless Spray
211.474	Alcohol
$\frac{211.474}{211.490}$	
211.510	
211.530	Architectural Coating
211.550	
<u>211.560</u>	As-Applied Fountain Solution
211.570	Asphalt
211.590	Asphalt Prime Coat

211.610 Automobile Automobile or Light-Duty Truck Assembly Source or 211.630 Automobile or Light-Duty Truck Manufacturing Plant Automobile or Light-Duty Truck Refinishing 211.650 211.670 Baked Coatings Batch Loading 211.690 211.710 Bead-Dipping Binders 211.730 211.750 British Thermal Unit Brush or Wipe Coating 211.770 211.790 Bulk Gasoline Plant Bulk Gasoline Terminal 211.810 211.830 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 211.970 Certified Investigation Choke Loading 211.990 211.1010 Clean Air Act 211.1050 Cleaning and Separating Operation 211.1070 Cleaning Materials 211.1090 Clear Coating 211.1110 Clear Topcoat 211.1130 Closed Purge System 211.1150 Closed Vent System 211.1170 Coal Refuse 211.1190 Coating 211.1210 Coating Applicator 211.1230 Coating Line 211.1250 Coating Plant 211.1270 Coil Coating 211.1290 Coil Coating Line 211.1310 Cold Cleaning 211.1330 Complete Combustion 211.1350 Component 211.1370 Concrete Curing Compounds 211.1390 Concentrated Nitric Acid Manufacturing Process 211.1410 Condensate 211.1430 Condensible PM-10 211.1470 Continuous Process 211.1490 Control Device 211.1510 Control Device Efficiency 211.1530 Conventional Soybean Crushing Source 211.1550 Conveyorized Degreasing 211.1570 Crude Oil 211.1590 Crude Oil Gathering 211.1610 Crushing 211.1630 Custody Transfer 211.1650 Cutback Asphalt

211.1670 Daily-Weighted Average VOM Content 211.1690 Day 211.1710 Degreaser 211.1730 Delivery Vessel 211.1750 Dip Coating 211.1770 Distillate Fuel Oil 211.1790 Drum 211.1810 Dry Cleaning Operation or Dry Cleaning Facility 211.1830 Dump-Pit Area 211.1850 Effective Grate Area 211.1870 Effluent Water Separator 211.1890 Electrostatic Bell or Disc Spray 211.1910 Electrostatic Spray 211.1920 Emergency or Standby Unit Emission Rate 211.1930 211.1950 Emission Unit 211.1970 Enamel 211.1990 Enclose 211.2010 End Sealing Compound Coat 211.2030 Enhanced Under-the-Cup Fill 211.2050 Ethanol Blend Gasoline 211.2070 Excess Air 211.2090 Excessive Release 211.2110 Existing Grain-Drying Operation 211.2130 Existing Grain-Handling Operation 211.2150 Exterior Base Coat 211.2170 Exterior End Coat 211.2190 External Floating Roof 211.2210 Extreme Performance Coating 211.2230 Fabric Coating 211.2250 Fabric Coating Line 211.2270 Federally Enforceable Limitations and Conditions 211.2300 Fill 211.2310 Final Repair Coat 211.2330 Firebox 211.2350 Fixed-Roof Tank 211.2370 Flexographic Printing Flexographic Printing Line 211.2390 211.2410 Floating Roof Fountain Solution 211.2430 211.2450 Freeboard Height 211.2470 Fuel Combustion Emission Unit or Fuel Combustion Emission Source Fugitive Particulate Matter 211.2490 211.2510 Full Operating Flowrate 211.2530 Gas Service 211.2550 Gas/Gas Method 211.2570 Gasoline Gasoline Dispensing Operation or Gasoline Dispensing 211.2590 Facility Gel Coat 211.2610 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 Gross Vehicle Weight Rating 211.2790 211.2810 Heated Airless Spray 211.2830 Heatset 211.2850 Heatset Web Offset Lithographic Printing Line Heavy Liquid 211.2870 Heavy Metals 211.2890 Heavy Off-Highway Vehicle Products 211.2910 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 Hot Well 211.3030 211.3050 Housekeeping Practices 211.3070 Incinerator 211.3090 Indirect Heat Transfer 211.3110 Ink In-Process Tank 211.3130 211.3150 In-Situ Sampling Systems Interior Body Spray Coat 211.3170 211.3190 Internal-Floating Roof 211.3210 Internal Transferring Area 211.3230 Lacquers 211.3250 Large Appliance 211.3270 Large Appliance Coating 211.3290 Large Appliance Coating Line Light Liquid 211.3310 211.3330 Light-Duty Truck Light Oil 211.3350 Liquid/Gas Method 211.3370 211.3390 Liquid-Mounted Seal Liquid Service 211.3410 211.3430 Liquids Dripping 211.3450 Lithographic Printing Line 211.3470 Load-Out Area 211.3480 Loading Event 211.3490 Low Solvent Coating 211.3500 Lubricating Oil 211.3510 Magnet Wire 211.3530 Magnet Wire Coating 211.3550 Magnet Wire Coating Line Major Dump Pit 211.3570 Major Metropolitan Area (MMA) 211.3590 211.3610 Major Population Area (MPA) 211.3620 Manually Operated Equipment Manufacturing Process 211.3630

211.3650 Marine Terminal >211.3660 Marine Vessel 211.3670 Material Recovery Section 211.3690 Maximum Theoretical Emissions >211.3695 Maximum True Vapor Pressure 211.3710 Metal Furniture 211.3730 Metal Furniture Coating 211.3750 Metal Furniture Coating Line 211.3770 Metallic Shoe-Type Seal 211.3790 Miscellaneous Fabricated Product Manufacturing Process 211.3810 Miscellaneous Formulation Manufacturing Process 211.3830 Miscellaneous Metal Parts and Products 211.3850 Miscellaneous Metal Parts and Products Coating 211.3870 Miscellaneous Metal Parts or Products Coating Line 211.3890 Miscellaneous Organic Chemical Manufacturing Process 211.3910 Mixing Operation 211.3930 Monitor 211.3950 Monomer 211.3970 Multiple Package Coating 211.3990 New Grain-Drying Operation 211.4010 New Grain-Handling Operation 211.4030 No Detectable Volatile Organic Material Emissions 211.4050 Non-contact Process Water Cooling Tower 211.4065 Non-Heatset 211.4070 Offset 211.4090 One Hundred Percent Acid 211.4110 One-Turn Storage Space 211.4130 Opacity 211.4150 Opaque Stains 211.4170 Open Top Vapor Degreasing 211.4190 Open-Ended Valve 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 Owner of a Gasoline Dispensing Operation or Owner of a 211.4350 Gasoline Dispensing Facility 211.4370 Owner or Operator Packaging Rotogravure Printing 211.4390 Packaging Rotogravure Printing Line 211.4410 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 Reasonably Available Control Technology (RACT) 211.5370 Reclamation System 211.5390 211.5410 Refiner Refinery Fuel Gas 211.5430 Refinery Fuel Gas System 211.5450 Refinery Unit or Refinery Process Unit 211.5470 Refrigerated Condenser 211.5490 Regulated Air Pollutant 211.5500 211.5510 Reid Vapor Pressure 211.5530 Repair

Repair Coat 211.5550 211.5570 Repaired 211.5590 Residual Fuel Oil Restricted Area 211.5610 211.5630 Retail Outlet 211.5650 Ringelmann Chart 211.5670 Roadway 211.5690 Roll Coater 211.5710 Roll Coating 211.5730 Roll Printer Roll Printing 211.5750 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 <u>211.5980</u> Sheet-Fed 211.5990 Shotblasting Side-Seam Spray Coat 211.6010 211.6030 Smoke Smokeless Flare 211.6050 211.6070 Solvent 211.6090 Solvent Cleaning 211.6110 Solvent Recovery System 211.6130 Source Specialty High Gloss Catalyzed Coating 211.6150 Specialty Leather 211.6170 Specialty Soybean Crushing Source 211.6190 211.6210 Splash Loading 211.6230 Stack 211.6250 Stain Coating 211.6270 Standard Conditions Standard Cubic Foot (scf) 211.6290 211.6310 Start-Up Stationary Emission Source 211.6330 Stationary Emission Unit 211.6350 Stationary Gas Turbine 211.6355 211.6360 Stationary Reciprocating Internal Combustion Engine 211.6370 Stationary Source Stationary Storage Tank 211.6390 211.6410 Storage Tank or Storage Vessel Styrene Devolatilizer Unit 211.6430 Styrene Recovery Unit 211.6450 211.6470 Submerged Loading Pipe 211.6490 Substrate Sulfuric Acid Mist 211.6510

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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 Tooling Resin 211.6650 211.6670 Topcoat 211.6690 Topcoat Operation 211.6710 Touch-Up 211.6730 Transfer Efficiency 211.6750 Tread End Cementing 211.6770 True Vapor Pressure 211.6790 Turnaround 211.6810 Two-Piece Can 211.6830 Under-the-Cup Fill 211.6850 Undertread Cementing 211.6870 Unregulated Safety Relief Valve 211.6890 Vacuum Producing System 211.6910 Vacuum Service 211.6930 Valves Not Externally Regulated 211.6950 Vapor Balance System 211.6970 Vapor Collection System 211.6990 Vapor Control System 211.7010 Vapor-Mounted Primary Seal 211.7030 Vapor Recovery System × 211.7050 Vapor-Suppressed Polyester Resin Vinyl Coating 211.7070 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) Volatile Petroleum Liquid 211.7170 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 Section into Rule Table APPENDIX B Implementing Sections 9, 9.1 and 10 and authorized by AUTHORITY: Sections 27 and 28.5 of the Environmental Protection Act [415 ILCS 5/9, 9.1, 10, 27 and 28.5].

Adopted as Chapter 2: Air Pollution, Rule 201: SOURCE: Definitions, R71-23, 4 PCB 191, filed and effective April 14, 1972; amended in R74-2 and R75-5, 32 PCB 295, at 3 Ill. Reg. 5, p. 777, effective February 3, 1979; amended in R78-3 and 4, 35 PCB 75 and 243, at 3 Ill. Reg. 30, p. 124, effective July 28, 1979; amended in R80-5, at 7 Ill. Reg. 1244, effective January 21, 1983; codified at 7 Ill. Reg. 13590; amended in R82-1 (Docket A) at 10 Ill. Reg. 12624, effective July 7, 1986; amended in R85-21(A) at 11 Ill. Reg. 11747, effective June 29, 1987; amended in R86-34 at 11 Ill. Reg. 12267, effective July 10, 1987; amended in R86-39 at 11 Ill. Reg. 20804, effective December 14, 1987; amended in R82-14 and R86-37 at 12 Ill. Reg. 787, effective December 24, 1987; amended in R86-18 at 12 Ill. Reg. 7284, effective April 8, 1988; amended in R86-10 at 12 Ill. Reg. 7621, effective April 11, 1988; amended in R88-23 at 13 Ill. Reg. 10862, effective June 27, 1989; amended in R89-8 at 13 Ill. Reg. 17457, effective January 1, 1990; amended in R89-16(A) at 14 Ill. Reg. 9141, effective May 23, 1990; amended in R88-30(B) at 15 Ill. Reg. 5223, effective March 28, 1991; amended in R88-14 at 15 Ill. Reg. 7901, effective May 14, 1991; amended in R91-10 at 15 Ill. Reg. 15564, effective October 11, 1991; amended in R91-6 at 15 Ill. Reg. 15673, effective October 14, 1991; amended in R91-22 at 16 Ill. Reg. 7656, effective May 1, 1992; amended in R91-24 at 16 Ill. Reg. 13526, effective August 24, 1992; amended in R93-9 at 17 Ill. Reg. 16504, effective September 27, 1993; amended in R93-11 at 17 Ill. Reg. 21471, effective December 7, 1993; amended in R93-14 at 18 Ill. Reg. 1253, effective January 18, 1994; amended in R94-12 at 18 Ill. Reg. 14962, effective September 21, 1994; amended in R94-14 at 18 Ill. Reg. 15744, effective October 17, 1994; amended in R94-15 at 18 Ill. Reg. 16379, effective October 25, 1994; amended in R94-16 at 18 Ill. Reg. 16929, effective November 15, 1994; amended in R94-31 at _____ Ill. Reg.____, effective ___

BOARD NOTE: This Part implements the Illinois Environmental Protection Act as of July 1, 1994.

SUBPART B: DEFINITIONS

Section 211.474 Alcohol

"Alcohol," for the purposes of Sections 218.405 through 218.411 and 219.405 through 219.411, means isopropyl alcohol, normal propyl alcohol, or ethanol used in a fountain solution in a lithographic printing operation.

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

Section 211.560 As-Applied Fountain Solution

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

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

_____)

Section 211.2850 Heatset Web Offset Lithographic Printing Line

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

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

Section 211.4065 Non-Heatset

)

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

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

Section 211.5980 Sheet-Fed

_____)

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

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

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

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

SUBPART A: GENERAL PROVISIONS

Section

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

SUBPART B: ORGANIC EMISSIONS FROM STORAGE AND LOADING OPERATIONS

- Section
- 218.119 Applicability for VOL
- 218.120 Control Requirements for Storage Containers of VOL
- 218.121 Storage Containers of VPL
- 218.122 Loading Operations
- 218.123 Petroleum Liquid Storage Tanks
- 218.124 External Floating Roofs
- >218.125 Compliance Dates
- 218.126 Compliance Plan (Repealed)
- 218.127 Testing VOL Operations
- 218.128 Monitoring VOL Operations
- 218.129 Recordkeeping and Reporting for VOL Operations

SUBPART C: ORGANIC EMISSIONS FROM MISCELLANEOUS EQUIPMENT

- 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
- 218.402 Applicability
- 218.403 Compliance Schedule
- 218.404 Recordkeeping and Reporting
- 218.405 Heatset-Web-Offset Lithographic Printing: <u>Applicability</u>
- <u>218.406</u> <u>Provisions Applying to Heatset Web Offset Lithographic</u> <u>Printing Prior to March 15, 1996</u>
- 218.407 Emission Limitations and Control Requirements for
- Lithographic Printing Lines On and After March 15, 1996
- 218.408 <u>Compliance Schedule for Lithographic Printing On and</u> <u>After March 15, 1996</u>
- <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

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

Section

- 218.421 General Requirements
- 218.422 Inspection Program Plan for Leaks
- 218.423 Inspection Program for Leaks
- 218.424 Repairing Leaks
- 218.425 Recordkeeping for Leaks
- 218.426 Report for Leaks
- 218.427 Alternative Program for Leaks
- 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
- 218.444 Process Unit Turnarounds
- 218.445 Leaks: General Requirements
- 218.446 Monitoring Program Plan for Leaks
- 218.447 Monitoring Program for Leaks
- 218.448 Recordkeeping for Leaks
- 218.449 Reporting for Leaks
- 218.450 Alternative Program for Leaks
- 218.451 Sealing Device Requirements
- 218.452 Compliance Schedule for Leaks
- 218.453 Compliance Dates (Repealed)

SUBPART S: RUBBER AND MISCELLANEOUS PLASTIC PRODUCTS

Section

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

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
- 218.487 Testing
- 218.488 Monitoring for Air Pollution Control Equipment
- 218.489 Recordkeeping for Air Pollution Control Equipment

SUBPART V: AIR OXIDATION PROCESSES

Section

- ×218.520 Emission Limitations for Air Oxidation Processes
- 218.521 Definitions (Repealed)
- 218.522 Savings Clause
- 218.523 Compliance
- 218.524 Determination of Applicability
- 218.525 Emission Limitations for Air Oxidation Processes (Renumbered)
- 218.526 Testing and Monitoring
- 218.527 Compliance Date (Repealed)

SUBPART W: AGRICULTURE

Section

218.541 Pesticide Exception

SUBPART X: CONSTRUCTION

Section

- 218.561 Architectural Coatings
- 218.562 Paving Operations
- 218.563 Cutback Asphalt

SUBPART Y: GASOLINE DISTRIBUTION

Section

- 218.581 Bulk Gasoline Plants
- 218.582 Bulk Gasoline Terminals
- 218.583 Gasoline Dispensing Operations Storage Tank Filling Operations

218.584 Gasoline Delivery Vessels

218.585 Gasoline Volatility Standards

218.586 Gasoline Dispensing Operations - Motor Vehicle Fueling Operations

SUBPART Z: DRY CLEANERS

Section			
218.601	Perchloroethylene	Dry	Cleaners
218.602	Applicability	-	
218.603	Leaks		

218.604 Compliance Dates (Repealed)

- 218.605 Compliance Plan (Repealed)
- 218.606 Exception to Compliance Plan (Repealed)
- 218.607 Standards for Petroleum Solvent Dry Cleaners
- 218.608 Operating Practices for Petroleum Solvent Dry Cleaners
- 218.609 Program for Inspection and Repair of Leaks
- 218.610 Testing and Monitoring
- 218.611 Applicability for Petroleum Solvent Dry Cleaners
- 218.612 Compliance Dates (Repealed)
- 218.613 Compliance Plan (Repealed)

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)
- v 218.624 Open-Top Mills, Tanks, Vats or Vessels
 - 218.625 Grinding Mills
 - 218.626 Storage Tanks
 - 218.628 Leaks
 - 218.630 Clean Up
 - 218.636 Compliance Schedule
 - 218.637 Recordkeeping and Reporting

SUBPART BB: POLYSTYRENE PLANTS

Section

- 218.640 Applicability
- 218.642 Emissions Limitation at Polystyrene Plants
- 218.644 Emissions Testing

SUBPART CC: POLYESTER RESIN PRODUCT MANUFACTURING PROCESS

- Section
- 218.660 Applicability
- 218.666 Control Requirements
- 218.667 Compliance Schedule
- 218.668 Testing
- 218.670 Recordkeeping and Reporting for Exempt Emission Units
- 218.672 Recordkeeping and Reporting for Subject Emission Units

SUBPART DD: AEROSOL CAN FILLING

- 218.680 Applicability
- 218.686 Control Requirements
- 218.688 Testing
- 218.690 Recordkeeping and Reporting for Exempt Emission Units
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SUBPART GG: MARINE TERMINALS

- 218.760 Applicability
- 218.762 Control Requirements
- 218.764 Compliance Certification
- 218.766 Leaks
- 218.768 Testing and Monitoring
- 218.770 Recordkeeping and Reporting
- 218.875 Applicability of Subpart BB (Renumbered)
- 218.877 Emissions Limitation at Polystyrene Plants (Renumbered)
- 218.879 Compliance Date (Repealed)
- 218.881 Compliance Plan (Repealed)
- 218.883 Special Requirements for Compliance Plan (Repealed)
- 218.886 Emissions Testing (Renumbered)

SUBPART PP: MISCELLANEOUS FABRICATED PRODUCT MANUFACTURING PROCESSES

Section

- 218.920 Applicability
- 218.923 Permit Conditions (Repealed)
- 218.926 Control Requirements
- 218.927 Compliance Schedule
- 218.928 Testing

SUBPART QQ: MISCELLANEOUS FORMULATION MANUFACTURING PROCESSES

Section

- 218.940 Applicability
- 218.943 Permit Conditions (Repealed)
- 218.946 Control Requirements
- 218.947 Compliance Schedule
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SUBPART RR: MISCELLANEOUS ORGANIC CHEMICAL MANUFACTURING PROCESSES

Section	
218.960	Applicability
218.963	Permit Conditions (Repealed)
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SUBPART TT: OTHER EMISSION UNITS

Section	
218.980	Applicability
218.983	Permit Conditions (Repealed)
218.986	Control Requirements
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SUBPART UU: RECORDKEEPING AND REPORTING

Section 218.990 Exempt Emission Units 218.991 Subject Emission Units Section 218. APPENDIX A: List of Chemicals Defining Synthetic Organic Chemical and Polymer Manufacturing Section 218.APPENDIX B: VOM Measurement Techniques for Capture Efficiency Section 218. APPENDIX C: Reference Test Methods and Procedures Section 218.APPENDIX D: Coefficients for the Total Resource Effectiveness Index (TRE) Equation Section 218.APPENDIX E: List of Affected Marine Terminals

AUTHORITY: Implementing Section 10 and authorized by Section 28.5 of the Environmental Protection Act [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. 16950, effective November 15, 1994; amended in R94-31 at _____ Ill. Reg. _____, effective ______

BOARD NOTE: This Part implements the Illinois Environmental Protection Act as of July 1, 1994.

SUBPART H: PRINTING AND PUBLISHING

Section 218.405 Heatset Web Offset Lithographic Printing: Applicability

- a) Applicability
- <u>Ha</u>) Until March 15, 1996, Thethe 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:

- A<u>1</u>) 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:

- 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;
- B-----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;
- 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

- 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 of this Subpart.
- <u>d)</u> On and after March 15, 1996, Sections 218.407 through 218.411 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 lithographic 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 (excluding methane and ethane) from the dryer exhaust; or

- 2) The fountain solution contains no more than 8 percent, by weight, of VOM and a condensation recovery system is installed and operated that removes at least 75 percent of the non-isopropyl alcohol organic materials from the dryer exhaust; and
- 3) The control device is equipped with the applicable monitoring equipment specified in Section 218.105(d)(2) of this Part and the monitoring equipment is installed, calibrated, operated and maintained according to manufacturer's specifications at all times when the control device is in use; and
- 4) The control device is operated at all times when the printing line is in operation.
- b) Recordkeeping and Reporting. The VOM content of each fountain solution and ink and the efficiency of each control device shall be determined by the applicable test methods and procedures specified in Section 218.105 of this Part to establish the records required under this subsection.
 - 1) Any owner or operator of a lithographic printing line which is exempted from the limitations of subsection (a) of this Section because of the criteria in 218.405(a) of this Subpart shall comply with the following:
 - A) By a date consistent with Section 218.106 of this Part, the owner or operator of a heatset web offset lithographic printing line to which subsection (b)(1) of this Section is applicable shall certify to the Agency that the heatset web offset lithographic printing line is exempt under the provisions of Section 218.405(a) of this Subpart. Such certification shall include:
 - i) A declaration that the heatset web offset lithographic printing line is exempt from the limitations of subsection (a) of this Section because of the criteria in Section 218.405(a) of this Subpart; and
 - <u>ii)</u> <u>Calculations which demonstrate that</u> <u>total maximum theoretical emissions of</u> <u>VOM from all heatset web offset</u> <u>lithographic printing lines at the</u>

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>

B

- E_p = Total maximum theoretical emissions of VOM from one heatset web offset printing line in units of kg/yr (lbs/yr);
- A = Weight of VOM per volume of solids of ink with the highest VOM content as applied each year on the printing line in units of kg VOM/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 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> highest VOM content;
 - 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> 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 218.106 of this Part, the owner or operator of a heatset web offset lithographic printing line to which subsection (b)(1) of this Section is applicable shall collect and record all of the following information each year for each printing line and maintain the information at the source for a period of three years:
 - i) The name and identification of each fountain solution and ink as applied on each printing line; and
 - ii) The VOM content and the volume of each

D

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 lithographic 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 exceedence 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;
 - <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 218.106 of this Part, notify the Agency in the following instances:
 - i) Any violation of subsection (a) (1) of this Section shall be reported to the Agency, in writing, within 30 days following the occurrence of the violation;
 - ii) Any record showing a violation of subsection (a)(1) of this Section shall be reported by sending a copy of such record to the Agency within 30 days following the occurrence of the violation; and
 - iii) At least 30 calendar days before changing the method of compliance with subsection (a) of this Section from subsection (a)(1) to (a)(2) of this Section, the owner or operator shall comply with all requirements of subsection (b)(3)(A) of this Section. Upon changing the method of compliance with subsection (a) of this Section from subsection (a)(1) to subsection (a)(2) of this Section, the owner or operator shall comply with all requirements of subsection (b)(3) of this Section.
- 3) Any owner or operator of a printing line subject to the limitations of subsection (a) of this Section and complying by means of subsection (a) (2) of this Section shall:
 - A) By a date consistent with Section 218.106 of this Part, or upon initial start-up of a new printing line, or upon changing the method of compliance for an existing printing line from subsection (a)(1) to subsection (a)(2) of this Section, perform all tests and submit to the Agency and the USEPA the results of all tests and calculations necessary to demonstrate that the subject printing line will be in compliance with subsection (a)(2) of this Section on and after a date

consistent with Section 218.106 of this Part, or on and after the initial start-up date;

- B) On and after a date consistent with Section 218.106 of this Part, or on and after the initial start-up date, collect and record the following information each day for each printing line and maintain the information at the source for a period of three years:
 - <u>i)</u> The VOM content of the fountain solution used each day on each printing line;
 - ii) A log of operating time for the control device and the associated printing line; and
 - <u>iii) A maintenance log for the control device</u> <u>detailing all routine and non-routine</u> <u>maintenance performed including dates</u> <u>and duration of any outages;</u>
- C) On and after a date consistent with Section 218.106 of this Part, notify the Agency in the following instances:
 - i) Any violation of subsection (a) (2) shall be reported to the Agency, in writing, within 30 days following the occurrence of the violation;
 - ii) Any record showing a violation of subsection (a)(2) of this Section shall be reported by sending a copy of such record to the Agency within 30 days following the occurrence of the violation; and
 - iii) At least 30 calendar days before changing the method of compliance with subsection (a) of this Section from subsection (a)(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>c)</u> Compliance Schedule. Every owner or operator of a heatset web offset lithographic printing line shall comply with the applicable requirements of subsections

 (a) and (b) of this Section in accordance with the applicable compliance schedule specified in subsections
 (c) (1), (c) (2), or (c) (3) of this Section:
 - 1) No owner or operator of a heatset web offset lithographic printing line which is exempt from the limitations of subsection (a) of this Section because of the criteria in Section 218.405(a) of this Subpart shall operate said printing line on or after a date consistent with Section 218.106 of this Part, unless the owner or operator has complied with, and continues to comply with, Sections 218.405(a) and 218.406(b)(1) of this Subpart.
 - 2) No owner or operator of a heatset web offset lithographic printing line complying by means of subsection (a)(1) of this Section shall operate said printing line on or after a date consistent with Section 218.106 of this Part, unless the owner or operator has complied with, and continues to comply with, subsections (a)(1), (a)(3), (a)(4) and (b)(2) of this Section.
 - 3) No owner or operator of a heatset web offset lithographic printing line complying by means of subsection (a)(2) of this Section shall operate said printing line on or after a date consistent with Section 218.106 of this Part, unless the owner or operator has complied with, and continues to comply with, subsections (a)(2), (a)(3), (a)(4) and (b)(3) of this Section.
- (Source: Added at _____ Ill. Reg. _____, effective
- <u>Section 218.407</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) The total VOM content in the as-applied</u> <u>fountain solution meets one of the following</u>

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;
- C) An afterburner is installed and operated so that VOM emissions (excluding methane and ethane) 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
- <u>E)</u> 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:
 - A) The VOM content of the as-applied fountain solution is 5 percent or less, by volume; or

- B) The VOM content of the as-applied fountain solution is 8.5 percent or less, by volume, and the temperature of the fountain solution is maintained below 15.6°C (60°F), measured at the reservoir or the fountain tray;
- 4) Cause or allow the use of a cleaning solution on any lithographic printing line unless:
 - <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 subsection (a)(1)(C) of this Section may use a control device other than an afterburner, if:
 - 1) The control device reduces VOM emissions from the press dryer exhaust(s) by at least 90 percent, by weight, or to a maximum control device exhaust outlet concentration of 20 ppmv (as carbon);
 - 2) The owner or operator submits a plan to the Agency detailing appropriate monitoring devices, test methods, recordkeeping requirements, and operating parameters for the control device; and
 - 3) The use of the control device with testing, monitoring, and recordkeeping in accordance with this plan is approved by the Agency and USEPA as federally enforceable permit conditions.

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

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

<u>a) Every owner or operator of a lithographic printing line</u> <u>subject to one or more of the control requirements of</u> Section 218.407 of this Subpart shall comply with the applicable requirements of Sections 218.407 through 218.411 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 within 90 days after a request by 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

- 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
- Due to the high efficiency of the control <u>C)</u> 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, a retest is required. The retest shall be conducted using either Method 25 or Method 25A. If the retest is conducted using Method 25A and the test results again show that the required destruction efficiency apparently has been met, but the exhaust concentration is above 50 ppmv, as carbon, the source must retest using Method 25;
- 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, such as a smoke stick, 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.
- <u>d)</u> 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 VOM 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 _____

Section 218.410 Monitoring Requirements for Lithographic Printing

- a) Fountain Solution Temperature
 - 1) The owner or operator of any lithographic printing line(s) relying on the temperature of the fountain solution to demonstrate compliance shall install,

maintain, and continuously operate a temperature monitor of the fountain solution in the reservoir or fountain tray, as applicable.

- 2) The temperature monitor must be capable of reading with an accuracy of 0.3°C or 0.5°F, and must be attached to an automatic, continuous recording device such as a strip chart, recorder, or computer, with at least the same accuracy, that is installed, calibrated and maintained in accordance with the manufacturer's specifications. If the automatic, continuous recording device malfunctions, the owner or operator shall record the temperature of the fountain solution at least once every two operating hours. The automatic, continuous recording device shall be repaired or replaced as soon as practicable.
- b) Fountain Solution VOM Content. 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:
 - 1) For a fountain solution to which VOM is not added automatically:
 - <u>A)</u> <u>Maintain records of the VOM content of the</u> <u>fountain solution in accordance with Section</u> <u>218.411(c)(2)(C); or</u>
 - B) Take a sample of the as-applied fountain solution from the fountain tray or reservoir, as applicable, each time a fresh batch of fountain solution is prepared or each time VOM is added to an existing batch of fountain solution in the fountain tray or reservoir, and shall determine compliance with the VOM content limitation of the as-applied fountain solution by using one of the following options:
 - i) With a refractometer or hydrometer with a visual, analog, or digital readout and with an accuracy of 0.5 percent. The refractometer or hydrometer must be calibrated with a standard solution for the type of VOM used in the fountain solution, in accordance with manufacturer's specifications, against measurements performed to determine compliance. The refractometer or

hydrometer must be corrected for temperature at least once per 8-hour shift or once per batch of fountain solution prepared or modified, whichever is longer; or

- ii) With a conductivity meter if it is demonstrated that a refractometer and hydrometer cannot distinguish between compliant and noncompliant fountain solution for the type and amount of VOM in the fountain solution. A source may use a conductivity meter if it demonstrates that both hydrometers and refractometers fail to provide significantly different measurements for standard solutions containing 95 percent, 100 percent and 105 percent of the applicable VOM content limit. The conductivity meter reading for the fountain solution must be referenced to the conductivity of the incoming water. A standard solution shall be used to calibrate the conductivity meter for the type of VOM used in the fountain solution, in accordance with manufacturer's specifications;
- 2) 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.
- <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:

<u>1)</u> 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> Other Control Devices for Heatset Web Offset Lithographic Printing Line(s)

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

- e) <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:
 - <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 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) 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) 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:
 - A) A declaration that the source is exempt from the control requirements in Section 218.407 of this Part because of the criteria in Section 218.405(d) of this Subpart;
 - B) Calculations which demonstrate that combined 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 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 inks used on lithographic printing line(s) at the source, an ink emission adjustment factor of 0.05 shall be used in calculating emissions from all nonheatset 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;
- <u>C)</u> Either a declaration that the source, through federally enforceable permit conditions, has limited its maximum theoretical emissions of VOM from all heatset web offset lithographic printing lines (including solvents used for cleanup operations associated with heatset web offset printing lines) at the source to no more than 90.7 Mg (100 tons) per calendar year before the application of capture systems and control devices or calculations which demonstrate that the source's total maximum theoretical emissions of VOM do not exceed 90.7 Mg/yr (100 TPY). To determine the source's total maximum theoretical emissions for the purposes of this subsection, the owner or operator shall use the calculations set forth in Section 218.406(b)(1)(A)(ii) of this Subpart; and
- D) A description and the results of all tests used to determine the VOM content of inks, fountain solution additives, and cleaning solvents, and a declaration that all such tests have been properly conducted in accordance with Section 218.409(c)(1) of this Subpart;
- 2) On and after March 15, 1996, collect and record either the information specified in subsection (a) (2) (A) or (a) (2) (B) of this Section for all lithographic printing lines at the source:
 - <u>A)</u> <u>Standard recordkeeping, including the</u> <u>following:</u>
 - i) The name and identification of each fountain solution additive, lithographic ink, and cleaning solvent used on each any lithographic printing line, recorded

- <u>ii) A daily record which shows whether or</u> <u>not a lithographic printing line at the</u> <u>source was in operation on that day;</u>
- iii) The VOM content and the volume of each fountain solution additive, lithographic ink, and cleaning solvent used on any lithographic printing line, recorded each month;
- iv) 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 lithographic ink (with the applicable ink VOM emission adjustment) used at the source, calculated each month; and
- v) The VOM emissions in lbs/day for the month, calculated in accordance with Section 218.411(a)(1)(B) of this Subpart;
- <u>B)</u> <u>Purchase and inventory recordkeeping,</u> <u>including the following:</u>
 - i) The name, identification, and VOM content of each fountain solution additive, lithographic ink, and cleaning solvent used on any lithographic printing line, recorded each month;
 - ii) Inventory records from the beginning and end of each month indicating the total volume of each fountain solution additive, lithographic ink, and cleaning solvent to be used on any lithographic printing line at the source;
 - iii) Monthly purchase records for each fountain solution additive, lithographic ink, and cleaning solvent used on any lithographic printing line at the source;
 - iv) A daily record which shows whether or not a lithographic printing line at the source was in operation on that day;

- v) 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 lithographic ink (with the applicable ink VOM emission adjustment) used at the source, calculated each month based on the monthly inventory and purchase records required to be maintained pursuant to subsections (a)(2)(B)(i), (a)(2)(B)(ii) and (a)(2)(B)(iii) of this Section; and
- vi) The VOM emissions in lbs/day for the month, calculated in accordance with Section 218.411(a)(1)(B) of this Subpart;
- 3) On and after March 15, 1996, notify the Agency in writing if the combined 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) An identification of each heatset web offset</u> <u>lithographic printing line at the source;</u>
 - B) A declaration that each heatset web offset lithographic printing line is in compliance with the requirements of Section 218.407 (a) (1) (B), (a) (1) (C), (a) (1) (D) and (a) (1) (E) or (b) of this Subpart, as appropriate;
 - <u>C)</u> The type of afterburner or other approved control device used to comply with the requirements of Section 218.407(a)(1)(C) or

(b)(1) of this Subpart;

- D) The control requirements in Section 218.407(a)(1)(C) or (b)(1) of this Subpart with which the lithographic printing line is complying;
- E) The results of all tests and calculations necessary to demonstrate compliance with the control requirements of Section 218.407(a)(1)(C) or (b)(1) of this Subpart, as applicable; and
- F) A declaration that the monitoring equipment required under Section 218.407(a)(1)(D) or (b) of this Subpart, as applicable, has been properly installed and calibrated according to manufacturer's specifications;
- 2) If testing of the afterburner or other approved control device is conducted pursuant to Section 218.409(b) of this Subpart, the owner or operator shall, within 90 days of conducting such testing, submit a copy of all test results to the Agency and shall submit a certification to the Agency that includes the following:
 - <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
 - C) The operating parameters of the afterburner or other approved control device during testing, as monitored in accordance with Section 218.410(c) or (d) of this Subpart, as applicable;
- 3) On and after March 15, 1996, collect and record daily the following information for each heatset web offset lithographic printing line subject to the requirements of Section 218.407(a)(1)(C) or (b)(1) of this Subpart:
 - A) Afterburner or other approved control device

monitoring data in accordance with Section 218.410(c) or (d) of this Subpart, as applicable;

- B) A log of operating time for the afterburner or other approved control device, monitoring equipment, and the associated printing line;
- <u>C) A maintenance log for the afterburner or</u> 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:

- A) 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> <u>Identification of each centralized fountain</u> <u>solution reservoir and each lithographic</u> <u>printing line that it serves;</u>
- <u>C)</u> The VOM content limitation with which each fountain solution will comply;
- D) 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;
- E) Identification of the method that will be used to demonstrate continuing compliance with the applicable limitation, e.g., a refractometer, hydrometer, conductivity meter, or recordkeeping procedures with detailed description of the compliance methodology; and
- F) 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:
 - A) The name and identification of each batch of fountain solution prepared for use on one or more lithographic printing lines, the lithographic printing line(s) or centralized reservoir using such batch of fountain solution, and the applicable VOM content limitation for the batch;
 - B) If an owner or operator uses a hydrometer, refractometer, or conductivity meter, pursuant to Section 218.410(b)(1)(B), 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;
- <u>C)</u> If the VOM content of the fountain solution is determined pursuant to Section 218.410(b)(1)(A) 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> Volume and VOM content of each component used in, or subsequently added to, the fountain solution batch;
 - <u>iii)</u> Calculated VOM content of the as-applied fountain solution; and
 - iv) 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:
 - <u>i)</u> 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> <u>monitoring devices and automatic,</u> <u>continuous temperature recorders</u> <u>detailing all routine and non-routine</u> <u>maintenance performed, including dates</u> <u>and duration of any outages;</u>
- 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 within 30 days after making such change, and perform all tests and calculations necessary to demonstrate that such printing line(s) will be in compliance with the applicable requirements of 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>
 - <u>B)</u> <u>The limitation with which each VOM-containing</u> <u>cleaning solution will comply, i.e., the VOM</u> <u>content or vapor pressure;</u>
 - <u>C)</u> <u>Initial documentation that each VOM-</u> <u>containing cleaning solution will comply with</u> <u>the applicable limitation, including copies</u>

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 limitations;
- <u>E)</u> A sample of the records that will be kept pursuant to Section 218.411(d)(2) of this Subpart; and
- F) A description of the practices that assure that VOM-containing cleaning materials are kept in closed containers.
- 2) On and after March 15, 1996, collect and record the following information for each cleaning solution used on each lithographic printing line:
 - A) For each cleaning solution for which the owner or operator relies on the VOM content to demonstrate compliance with Section 218.407(a)(4)(A) of this Subpart and which is prepared at the source with automatic equipment:
 - <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 218,409(c) of this Subpart;
 - iii) Each change to the setting of the automatic equipment, with date, time, description of changes in the cleaning solution constituents (e.g., cleaning solvents), and a description of changes to the proportion of cleaning solvent and water (or other non-VOM);
 - iv) The proportion of each cleaning solvent and water (or other non-VOM) used to prepare the as-used cleaning solution;
 - v) The VOM content of the as-used cleaning solution, with supporting calculations; and
 - vi) A calibration log for the automatic

equipment, detailing periodic checks;

- B) For each batch of cleaning solution for which the owner or operator relies on the VOM content to demonstrate compliance with Section 218.407(a)(4)(A) of this Subpart, and which is not prepared at the source with automatic equipment:
 - <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 218.409(c) of this Subpart;
 - iv) The total amount of each cleaning solvent and water (or other non-VOM) used to prepare the as-used cleaning solution; and
 - v) The VOM content of the as-used cleaning solution, with supporting calculations;
- C) For each batch of cleaning solution for which the owner or operator relies on the vapor pressure of the cleaning solution to demonstrate compliance with Section 218.407(a)(4)(B) of this Subpart:
 - <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

<u>determined in accordance with Section</u> 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, within 30 days after making such change, and perform all tests and calculations necessary to demonstrate that such printing line(s) will be in compliance with the applicable requirements of 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 _____

SUBPART T: PHARMACEUTICAL MANUFACTURING

Section 218.480 Applicability

 a) The rules of this Subpart, except for Sections 218.483 through 218.485 of this Part, apply to all emission units of VOM, including but not limited to reactors, distillation units, dryers, storage tanks for VOL, equipment for the transfer of VOL, filters, crystallizers, washers, laboratory hoods, pharmaceutical coating operations, mixing operations and centrifuges used in manufacturing, including packaging, of pharmaceuticals, and emitting more than 6.8 kg/day (15 lbs/day) and more than 2,268 kg/year (2.5 tons/year) of VOM. If such an emission unit emits less than 2,268 kg/year (2.5 tons/year) of VOM, the requirements of this Subpart still apply to the emission unit if VOM emissions from the emission unit exceed 45.4 kg/day (100 lbs/day).

- b) Notwithstanding subsection (a) of this Section, the air suspension coater/dryer, fluid bed dryers, tunnel dryers, and Accelacotas located in Libertyville Township, Lake County, Illinois shall be exempt from the rules of this Subpart, except for Sections 218.483 through 218.485, if emissions of VOM not vented to air pollution control equipment do not exceed the following levels:
 - For the air suspension coater/dryer: 2,268 kg/year (2.5 tons/year);
 - 2) For each fluid bed dryer: 4,535 kg/year (5.0 tons/year);
 - 3) For each tunnel dryer: 6,803 kg/year (7.5 tons/year); and
 - 4) For each Accelacota: 6,803 kg/year (7.5 tons/year).
- c) Sections 218.483 through 218.485 of this Part apply to a source having one or more emission units that:
 - 1) Are used to manufacture pharmaceuticals, and
 - 2) Emit more than 6.8 kg/day (15 lbs/day) of VOM and more than 2,268 kg/year (2.5 tons/year) of VOM, or, if less than 2,268 kg/year (2.5 tons/year), these Sections still apply if emissions from one or more sources exceed 45.4 kg/day (100 lbs/day).
- d) No owner or operator shall violate any condition in a permit when the condition results in exclusion of an emission unit from this Subpart.
- e) Any pharmaceutical manufacturing source that becomes subject to the provisions of this Subpart at any time shall remain subject to the provisions of this Subpart at all times.
- f) Emissions subject to this Subpart shall be controlled at all times consistent with the requirements set forth in this Subpart.
- g) Any control device required pursuant to this Subpart

shall be operated at all times when the source it is controlling is operated.

Determinations of daily and annual emissions for h) 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 [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. 16980, effective November 15, 1994; amended in R94-31 at ______Ill.Reg. ______, effective ______; amended in R95-10 at ______Ill.Reg. ______, effective ______; amended

BOARD NOTE: This Part implements the Illinois Environmental Protection Act as of July 1, 1994.

SUBPART H: PRINTING AND PUBLISHING

Section 219.405 Heatset Web Offset Lithographic Printing: Applicability

- a) Applicability
- <u>Ha</u>) Until March 15, 1996, The the limitations of subsection (b) belowSection 219.406 of this Subpart apply to all heatset web offset lithographic printing lines (including solvents used for cleanup operations associated with the heatset web offset lithographic printing line(s)) at a subject source subject to the requirements of this Subpart. All sources with heatset web offset lithographic printing lines are subject sources subject to the requirements of this Subpart unless:
 - A<u>1</u>) 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. $_{\tau}$ 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 of this Subpart because of the criteria in subsection (a) (1) of this Section shall be subject to the recordkeeping and reporting requirements in subsection (c) (1) of this Section 219.406(b) (1) of this Subpart.
- b) Specific Provisions. No owner or operator of a subject heatset web offset printing line may cause or allow the operation of the subject heatset web offset printing line unless the owner or operator meets the requirements in subsections (b)(1) or (b)(2) and the requirements in subsections (b)(3) and (b)(4) below.
 - 1) An afterburner system is installed and operated that reduces 90 percent of the VOM emissions from the dryer exhaust, or
 - 2) The fountain solution contains no more than 8 percent, by weight, of VOM and a condensation recovery system is installed and operated that removes at least 75 percent of the non-isopropyl alcohol organic materials from the dryer exhaust, and
 - 3) The control device is equipped with the applicable monitoring equipment specified in Section 219.105(d)(2) of this Part and the monitoring equipment is installed, calibrated, operated and maintained according to vendor specifications at all times the control device is in use, and
 - 4) The control device is operated at all times when the subject printing line is in operation. The owner or operator shall demonstrate compliance with this Section by using the applicable test methods and procedures specified in Section 219.105(a), (d), and (f) of this Part and by complying with the recordkeeping and reporting requirements specified in subsection (c) below.
- 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:

- E_p = Total maximum theoretical emissions of VOM from one heatset web offset printing line in units of kg/year (lbs/year);
- Total volume of solids for all **B** 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;

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- F = Weight of VOM per volume of material for the cleanup material or solvent with the highest VOM content as used each year on the printing line in units of Kg/l (lbs VOM/gal) of such material;
- G The greatest volume of cleanup material or solvent used in any 8-hour period and
- H = The highest fraction of cleanup material or solvent which is not recycled or recovered for offsite disposal during any 8-hour period.
- B) On and after a date consistent with Section 219.106 of this Part, the owner or operator of a heatset web offset lithographic printing line to which subsection (c)(1) of this Section is applicable shall collect and record all of the following information each year for each printing line and maintain the information at the source for a period of three years:
 - i) The name and identification of each fountain solution and ink as applied on each printing line.
 - ii) The VOM content and the volume of each fountain solution and ink as applied each year on each printing line.
- C) On and after a date consistent with Section 219.106 of this Part, the owner or operator of a source exempted from the limitations of subsection (b) of this Section because of the criteria in subsection (a) of this Section shall notify the Agency of any record showing that total maximum theoretical emissions of VOM from all printing lines exceed 90.7 Mg (100 tons) in any calendar year in the absence of air pollution control equipment by sending a copy of such record to the Agency within 30 days after the exceedance occurs.
- 2) Any owner or operator of a printing line subject to the limitations of subsection (b) of this Section and complying by means of subsection

(b)(1) of this Section shall comply with the following:

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

- ii) At least 30 calendar days before changing the method of compliance with subsection (b) of this Section from subsection (b) (1) to (b) (2) of this Section, the owner or operator shall comply with all requirements of subsection (c) (3) (A) of this Section. Upon changing the method of compliance with subsection (b) of this Section from subsection (c) (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 of this Subpart.
- <u>d)</u> On and after March 15, 1996, Sections 219.407 through 219.411 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 lithographic 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 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 18 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 (excluding methane and ethane) from the dryer exhaust; or
 - 2) The fountain solution contains no more than 8 percent, by weight, of VOM and a condensation recovery system is installed and operated that removes at least 75 percent of the non-isopropyl alcohol organic materials from the dryer exhaust; and
 - 3) The control device is equipped with the applicable monitoring equipment specified in Section 219.105(d)(2) of this Part and the monitoring equipment is installed, calibrated, operated and

maintained according to manufacturer's specifications at all times when the control device is in use; and

- 4) The control device is operated at all times when the printing line is in operation.
- b) Recordkeeping and Reporting. The VOM content of each fountain solution and ink and the efficiency of each control device shall be determined by the applicable test methods and procedures specified in Section 219.105 of this Part to establish the records required under this subsection.
 - 1) Any owner or operator of a lithographic printing line which is exempted from the limitations of subsection (a) of this Section because of the criteria in 219.405(a) of this Subpart shall comply with the following:
 - A) By a date consistent with Section 219.106 of this Part, the owner or operator of a heatset web offset lithographic printing line to which subsection (b) (1) of this Section is applicable shall certify to the Agency that the heatset web offset lithographic printing line is exempt under the provisions of Section 219.405(a) of this Subpart. Such certification shall include:
 - i) A declaration that the heatset web offset lithographic printing line is exempt from the limitations of subsection (a) of this Section because of the criteria in Section 219.405(a) of this Subpart; and
 - ii) Calculations which demonstrate that total maximum theoretical emissions of VOM from all heatset web offset lithographic printing lines at the source never exceed 90.7 Mg (100 tons) per calendar year before the application of air pollution control equipment. Total maximum theoretical emissions of VOM for a heatset web offset lithographic printing source is the sum of maximum theoretical emissions of VOM from each heatset web offset lithographic printing line at the source. The following equation shall be used to calculate total maximum

theoretical emissions of VOM per calendar year in the absence of air pollution control equipment for each heatset web offset lithographic printing line at the source:						
E _p =	(A X	B) + $(C \times D)$ + 1095 (F $\times G \times H$) 100				
where:						
<u>E</u> p	=	Total maximum theoretical emissions of VOM from one heatset web offset printing line in units of kg/yr (lbs/yr);				
A	=	Weight of VOM per volume of solids of ink with the highest VOM content as applied each year on the printing line in units of kg VOM/1 (lbs VOM/gal) of solids;				
B		Total volume of solids for all inks that can potentially be applied each year on the printing line in units of l/year (gal/yr). The instrument or method by which the owner or operator accurately measured or calculated the volume of each ink as applied and the amount that can potentially be applied each year on the printing line shall be described in the certification to the Agency;				

<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 (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;

- 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>
- H = The highest fraction of cleanup material or solvent which is not recycled or recovered for offsite disposal during any 8-hour period.
- B) On and after a date consistent with Section 219.106 of this Part, the owner or operator of a heatset web offset lithographic printing line to which subsection (b)(1) of this Section is applicable shall collect and record all of the following information each year for each printing line and maintain the information at the source for a period of three years:
 - i) The name and identification of each fountain solution and ink as applied on each printing line; and
 - <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

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- 2) Any owner or operator of a printing line subject to the limitations of subsection (a) of this Section and complying by means of subsection (a) (1) of this Section shall comply with the following:
 - A) By a date consistent with Section 219.106 of this Part, or upon initial start-up of a new printing line, or upon changing the method of compliance for an existing printing line from subsection (a)(2) to subsection (a)(1) of this Section, perform all tests and submit to the Agency the results of all tests and calculations necessary to demonstrate that the subject printing line will be in compliance with subsection (a)(1) of this Section on and after a date consistent with Section 219.106 of this Part, or on and after the initial start-up date;
 - B) On and after a date consistent with Section 219.106 of this Part, or on and after the initial start-up date, collect and record the following information each day for each printing line and maintain the information at the source for a period of three years:
 - i) Control device monitoring data;
 - ii) A log of operating time for the control device, monitoring equipment and the associated printing line; and
 - iii) A maintenance log for the control device and monitoring equipment detailing all routine and 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)(1) of this Section shall be reported to the Agency, in writing, within 30 days

following the occurrence of the violation;

- ii) Any record showing a violation of subsection (a) (1) of this Section shall be reported by sending a copy of such record to the Agency within 30 days following the occurrence of the violation; and
- iii) At least 30 calendar days before changing the method of compliance with subsection (a) of this Section from subsection (a) (1) to (a) (2) of this Section, the owner or operator shall comply with all requirements of subsection (b) (3) (A) of this Section. Upon changing the method of compliance with subsection (a) of this Section from subsection (a) (1) to subsection (a) (2) of this Section, the owner or operator shall comply with all requirements of subsection (b) (3) of this Section.
- 3) Any owner or operator of a printing line subject to the limitations of subsection (a) of this Section and complying by means of subsection (a) (2) of this Section shall:
 - A) By a date consistent with Section 219.106 of this Part, or upon initial start-up of a new printing line, or upon changing the method of compliance for an existing printing line from subsection (a)(1) to subsection (a)(2) of this Section, perform all tests and submit to the Agency and the USEPA the results of all tests and calculations necessary to demonstrate that the subject printing line will be in compliance with subsection (a)(2) of this Section on and after a date consistent with Section 219.106 of this Part, or on and after the initial start-up date;
 - B) On and after a date consistent with Section 219.106 of this Part, or on and after the initial start-up date, collect and record the following information each day for each printing line and maintain the information at the source for a period of three years:
 - i) The VOM content of the fountain solution

- ii) A log of operating time for the control device and the associated printing line; and
- <u>iii) A maintenance log for the control device</u> <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 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 days following the occurrence of the violation; and
 - iii) At least 30 calendar days before changing the method of compliance with subsection (a) of this Section from subsection (a)(2) to subsection (a)(1) of this Section, the owner or operator shall comply with all requirements of subsection (b)(2)(A) of this Section. Upon changing the method of compliance with subsection (a) of this Section from subsection (a)(2) to subsection (a)(1) of this Section, the owner or operator shall comply with all requirements of subsection (b)(2) of this Section.
- c) Compliance Schedule. Every owner or operator of a heatset web offset lithographic printing line shall comply with the applicable requirements of subsections (a) and (b) of this Section in accordance with the applicable compliance schedule specified in subsections (c) (1), (c) (2), or (c) (3) of this Section:
 - 1) No owner or operator of a heatset web offset lithographic printing line which is exempt from the limitations of subsection (a) of this Section because of the criteria in Section 219.405(a) of

this Subpart shall operate said printing line on or after a date consistent with Section 219.106 of this Part, unless the owner or operator has complied with, and continues to comply with, Sections 219.405(a) and 219.406(b)(1) of this Subpart.

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

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

- Section 219.407 Emission Limitations and Control Requirements for Lithographic Printing Lines On and After March 15, 1996
 - <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:
 - A) 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;
- C) An afterburner is installed and operated so that VOM emissions (excluding methane and ethane) 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) 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 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 219.407(a)(1)(C) of this Subpart may use a control device other than an afterburner, if:
 - 1) The control device reduces VOM emissions from the press dryer exhaust(s) by at least 90 percent, by weight, or to a maximum control device exhaust outlet concentration of 20 ppmv (as carbon);
 - 2) The owner or operator submits a plan to the Agency detailing appropriate monitoring devices, test methods, recordkeeping requirements, and operating parameters for the control device; and
 - 3) The use of the control device with testing, monitoring, and recordkeeping in accordance with this plan is approved by the Agency and USEPA as federally enforceable permit conditions.

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

<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 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

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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) Testing to demonstrate compliance with the requirements of Section 219.407 of this Subpart shall be conducted by the owner or operator within 90 days after a request by 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:
 - <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
- Due to the high efficiency of the control <u>C)</u> 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, a retest is required. The retest shall be conducted using either Method 25 or Method 25A. If the retest is conducted using Method 25A and the test results again show that the required destruction efficiency apparently has been met, but the exhaust concentration is above 50 ppmv, as carbon, the source must retest using Method 25;
- 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, such as a smoke stick, 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> Testing to demonstrate compliance with the requirements of Section 219.407(b) of this Subpart shall be conducted as set forth in the owner or operator's plan approved by the Agency and USEPA as federally enforceable permit conditions pursuant to Section 219.407(b) of this Subpart.
- e) Testing to determine the VOM 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 _____

Section 219.410 Monitoring Requirements for Lithographic Printing

- a) Fountain Solution Temperature
 - 1) The owner or operator of any lithographic printing line(s) relying on the temperature of the fountain solution to demonstrate compliance shall install, maintain, and continuously operate a temperature monitor of the fountain solution in the reservoir or fountain tray, as applicable.
 - 2) The temperature monitor must be capable of reading with an accuracy of 0.3°C or 0.5°F, and must be attached to an automatic, continuous recording device such as a strip chart, recorder, or

computer, with at least the same accuracy, that is installed, calibrated and maintained in accordance with the manufacturer's specifications. If the automatic, continuous recording device malfunctions, the owner or operator shall record the temperature of the fountain solution at least once every two operating hours. The automatic, continuous recording device shall be repaired or replaced as soon as practicable.

- b) Fountain Solution VOM Content. 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:
 - 1) For a fountain solution to which VOM is not added automatically,:
 - <u>A)</u> <u>Maintain records of the VOM content of the</u> <u>fountain solution in accordance with Section</u> <u>218.411(c)(2)(C); or</u>
 - B) Take a sample of the as-applied fountain solution from the fountain tray or reservoir, as applicable, each time a fresh batch of fountain solution is prepared or each time VOM is added to an existing batch of fountain solution in the fountain tray or reservoir, and shall determine compliance with the VOM content limitation of the as-applied fountain solution by using one of the following options:
 - i) With a refractometer or hydrometer with a visual, analog, or digital readout and with an accuracy of 0.5 percent. The refractometer or hydrometer must be calibrated with a standard solution for the type of VOM used in the fountain solution, in accordance with manufacturer's specifications, against measurements performed to determine compliance. The refractometer or hydrometer must be corrected for temperature at least once per 8-hour shift or once per batch of fountain solution prepared or modified, whichever is longer; or
 - <u>ii)</u> With a conductivity meter if it is <u>demonstrated</u> that a refractometer and <u>hydrometer</u> cannot distinguish between <u>compliant</u> and <u>noncompliant</u> 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;

- 2) 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.
- <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) 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) of this Subpart.

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

Section 219.411 Recordkeeping and Reporting for Lithographic Printing

- a) An owner or operator of lithographic printing line(s) exempt from the limitations of Section 219.407 of this Subpart because of the criteria in Section 219.405(d) of this Subpart shall comply with the following:
 - 1) By March 15, 1996, upon initial start-up of a new lithographic printing line, and upon modification of a lithographic printing line, submit a certification to the Agency that includes:
 - <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>
 - B) Calculations which demonstrate that combined 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 daily emissions of VOM, the owner or operator shall determine the monthly emissions of VOM from all lithographic printing lines at the source (including solvents used for cleanup operations associated with the lithographic printing lines) and divide this amount by the number of days during that calendar month that printing lines at the source were in operation;
 - ii) To determine the VOM content of the inks, fountain solution additives and cleaning solvents, the tests methods and procedures set forth in Section 219.409(c) of this Subpart shall be used;
 - iii) To determine VOM emissions from inks used on lithographic printing line(s) at the source, an ink emission adjustment factor of 0.05 shall be used in calculating emissions from all nonheatset 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

- <u>iv)</u> 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 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 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 either the information specified in subsection (a) (2) (A) or (a) (2) (B) of this Section for all lithographic printing lines at the source:
 - <u>A)</u> <u>Standard recordkeeping, including the</u> <u>following:</u>
 - i) The name and identification of each fountain solution additive, lithographic ink, and cleaning solvent used on any lithographic printing line, recorded

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each month;

- <u>ii) A daily record which shows whether or</u> not a lithographic printing line at the source was in operation on that day;
- iii) The VOM content and the volume of each fountain solution additive, lithographic ink, and cleaning solvent used on any lithographic printing line, recorded each month;
- iv) 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 lithographic ink (with the applicable ink VOM emission adjustment) used at the source, calculated each month; and
- v) The VOM emissions in lbs/day for the month, calculated in accordance with Section 219.411(a)(1)(B) of this Subpart;
- <u>B)</u> <u>Purchase and inventory recordkeeping,</u> <u>including the following:</u>
 - i) The name, identification, and VOM content of each fountain solution additive, lithographic ink, and cleaning solvent used on any lithographic printing line, recorded each month;
 - ii) Inventory records from the beginning and end of each month indicating the total volume of each fountain solution additive, lithographic ink, and cleaning solvent to be used on any lithographic printing line at the source;
 - iii) Monthly purchase records for each fountain solution additive, lithographic ink, and cleaning solvent used on any lithographic printing line at the source;
 - iv) A daily record which shows whether or not a lithographic printing line at the source was in operation on that day;

- v) 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 lithographic ink (with the applicable ink VOM emission adjustment) used at the source, calculated each month based on the monthly inventory and purchase records required to be maintained pursuant to subsections (a)(2)(B)(i), (a)(2)(B)(ii) and (a)(2)(B)(iii) of this Section; and
- vi) The VOM emissions in lbs/day for the month, calculated in accordance with Section 218.411(a)(1)(B) of this Subpart;
- 3) On and after March 15, 1996, notify the Agency in writing if the combined 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) An identification of each heatset web offset</u> <u>lithographic printing line at the source;</u>
 - 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:
 - <u>A) Afterburner or other approved control device</u>

monitoring data in accordance with Section 219.410(c) or (d) of this Subpart, as applicable;

- B) A log of operating time for the afterburner or other approved control device, monitoring equipment, and the associated printing line;
- <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 219.407(a)(1)(B) of this Subpart at least once per 24-hour period while the line is operating;
- 4) On and after March 15, 1996, notify the Agency in writing of any violation of Section 219.407(a)(1)(C) or (b)(1) of this Subpart within 30 days after the occurrence of such violation. Such notification shall include a copy of all records of such violation;
- 5) If changing its method of compliance between subsections (a) (1) (C) and (b) of Section 219.407 of this Subpart, certify compliance for the new method of compliance in accordance with subsection (b) (1) of this Section at least 30 days before making such change, and perform all tests and calculations necessary to demonstrate that such printing line(s) will be in compliance with the requirements of Section 219.407(a) (1) (B), (a) (1) (C), (a) (1) (D) and (a) (1) (E) of this Subpart, or Section 219.407(b) of this Subpart, as applicable.
- <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:

- A) 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> Identification of each centralized fountain solution reservoir and each lithographic printing line that it serves;
- <u>C) The VOM content limitation with which each fountain solution will comply;</u>
- D) 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;
- E) Identification of the method that will be used to demonstrate continuing compliance with the applicable limitation, e.g., a refractometer, hydrometer, conductivity meter, or recordkeeping procedures with detailed description of the compliance methodology; and
- F) 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:
 - A) The name and identification of each batch of fountain solution prepared for use on one or more lithographic printing lines, the lithographic printing line(s) or centralized reservoir using such batch of fountain solution, and the applicable VOM content limitation for the batch;
 - B) If an owner or operator uses a hydrometer, refractometer, or conductivity meter, pursuant to Section 219.410(b)(1)(B), 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)(1)(A) 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> Volume and VOM content of each component used in, or subsequently added to, the fountain solution batch;
 - <u>iii)</u> Calculated VOM content of the as-applied fountain solution; and
 - iv) 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 and automatic, continuous temperature recorders 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 within 30 days after making such change, and perform all tests and calculations necessary to demonstrate that such printing line(s) will be in compliance with the applicable requirements of 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>
 - B) The limitation with which each VOM-containing cleaning solution will comply, i.e., the VOM content or vapor pressure;
 - <u>C)</u> Initial documentation that each VOMcontaining cleaning solution will comply with the applicable limitation, including copies

- <u>D)</u> Identification of the method that will be used to demonstrate continuing compliance with the applicable limitations;
- E) A sample of the records that will be kept pursuant to Section 219.411(d)(2) of this Subpart; and
- F) A description of the practices that assure that VOM-containing cleaning materials are kept in closed containers;
- 2) On and after March 15, 1996, collect and record the following information for each cleaning solution used on each lithographic printing line:
 - A) For each cleaning solution for which the owner or operator relies on the VOM content to demonstrate compliance with Section 219.407(a)(4)(A) of this Subpart and which is prepared at the source with automatic equipment:
 - i) The name and identification of each cleaning solution;
 - <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) A calibration log for the automatic

equipment, detailing periodic checks;

- B) For each batch of cleaning solution for which the owner or operator relies on the VOM content to demonstrate compliance with Section 219.407(a)(4)(A) of this Subpart, and which is not prepared at the source with automatic equipment:
 - i) The name and identification of each cleaning solution;
 - <u>ii)</u> Date and time of preparation, and each subsequent modification, of the batch;
 - <u>iii) The VOM content of each cleaning solvent</u> <u>in the cleaning solution, as determined</u> <u>in accordance with Section 219.409(c) of</u> <u>this Subpart;</u>
 - iv) The total amount of each cleaning solvent and water (or other non-VOM) used to prepare the as-used cleaning solution; and
 - v) The VOM content of the as-used cleaning solution, with supporting calculations;
- C) For each batch of cleaning solution for which the owner or operator relies on the vapor pressure of the cleaning solution to demonstrate compliance with Section 219.407(a)(4)(B) of this Subpart:
 - <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 219.409(e) of this Subpart;
 - iv) The total amount of each cleaning solvent used to prepare the as-used cleaning solution; and
 - v) The VOM composite partial vapor pressure of each as-used cleaning solution, as

<u>determined in accordance with Section</u> 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, within 30 days after making such change, and perform all tests and calculations necessary to demonstrate that such printing line(s) will be in compliance with the applicable requirements of Section 219.407(a)(4) of this Subpart.
- e) The owner or operator shall maintain all records required by this Section at the source for a minimum period of three years and shall make all records available to the Agency upon request.

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

SUBPART T: PHARMACEUTICAL MANUFACTURING

Section 219.480 Applicability

 a) The rules of this Subpart, except for Sections 219.483 through 219.485 of this Part, apply to all emission units of VOM, including but not limited to reactors, distillation units, dryers, storage tanks for VOL, equipment for the transfer of VOL, filters, crystallizers, washers, laboratory hoods, pharmaceutical coating operations, mixing operations and centrifuges used in manufacturing, including packaging, of pharmaceuticals, and emitting more than 6.8 kg/day (15 lbs/day) and more than 2,268 kg/year (2.5 tons/year) of VOM. If such 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.
- Determinations of daily and annual emissions for q) 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.)

<u>h)</u> 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 $\frac{23^{nd}}{23^{nd}}$ day of <u>february</u> 1995, by a vote of <u>7-0</u>.

Dorothy M. Gunn, Clerk Illinois Pollution Control Board