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 Solvent
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218.126 Compliance Plan (Repealed)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

Pages deleted

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

Section
218.680 Applicability
218.686 Control Requirements
218.688 Testing
218.690 Recordkeeping and Reporting for Exempt Emission Units
218.692 Recordkeeping and Reporting for Subject Emission Units

SUBPART FF: BAKERY OVENS (REPEALED)

Section
218.720 Applicability (Repealed)
218.722 Control Requirements (Repealed)
218.726 Testing (Repealed)
218.727 Monitoring (Repealed)
218.728 Recordkeeping and Reporting (Repealed)
218.729 Compliance Date (Repealed)
218.730 Certification (Repealed)

SUBPART GG: MARINE TERMINALS

Section
218.760 Applicability
218.762 Control Requirements
218.764 Compliance Certification
218.766 Leaks
218.768 Testing and Monitoring
218.770 Recordkeeping and Reporting

SUBPART HH: MOTOR VEHICLE REFINISHING

Pages deleted

(Source: Renumbered from Section 218.886 and amended at 17 Ill. Reg. 16636, effective September 27, 1993)

SUBPART CC: POLYESTER RESIN PRODUCT MANUFACTURING PROCESS

Section 218.660 Applicability

a) Potential to emit:
   1) A source is subject to this Subpart if it is not subject to the requirements of Subparts PP, QQ, RR and TT and:
      A) Not regulated by Subparts B, E, F, H, Q, R, S, T (excluding Section 218.486), V, X, Y, Z or BB of this Subpart, or
      B) Not included in any of the following categories: synthetic organic chemical manufacturing industry (SOCMI) distillation, SOCMI reactors, wood furniture, plastic parts coating (business machines), plastic parts coating (other), offset lithography, industrial wastewater, autobody refinishing, SOCMI batch processing, volatile organic liquid storage tanks and clean-up solvent operations.
   2) If a source is subject to this Subpart as provided above, the requirements of this Subpart shall apply to a source's polyester resin products manufacturing process emission units and associated handling of materials, cleanup activity, and formulation activity, if any, which are not regulated by Subparts B, E, F, H, Q, R, S, T, V, X, Y, Z, AA, BB, or DD of this Subpart.

b) If a source ceases to fulfill the criteria of subsection (a) above, the requirements of this Subpart shall continue to apply to a polyester resin products manufacturing process emissions unit which was subject to the control requirements of Section 218.666 of this Part.

c) For the purposes of this Subpart, an emission unit shall be considered regulated by a Subpart if it is subject to the limits of that Subpart. An emission unit is considered not regulated by a Subpart if it is not subject to the limits of that Subpart, e.g., the emission unit is covered by an exemption in the Subpart or the applicability criteria of the Subpart are not met.

(Source: Added at 18 Ill. Reg. 1945, effective January 24, 1994)

Section 218.666 Control Requirements

a) Every owner or operator of a polyester resin products manufacturing process subject to this Subpart shall comply with the operating requirements below:
   1) Any of the following:

A) Use polyester resin material with a monomer content as follows:

i) For polyester resin materials used for products requiring corrosion resistant or fire retardant materials, a monomer content of no more than 48% by weight as applied;

ii) For polyester resin materials for products requiring a tensile strength of 10,000 psi or more, including tooling resins, a monomer content of no more than 48% by weight as applied;

iii) For clear gel coat, a monomer content of no more than 50% by weight as applied;

iv) For other pigmented gel coats, a monomer content of no more than 45% by weight as applied; or

v) For all other polyester resin materials, a monomer content of no more than 35% by weight as applied.

B) Use a closed-mold system or pultrusion system which will result in less than 4% weight loss of polyester resin materials;

C) Use vapor suppressed polyester resin approved by the Agency in the source's permit such that weight loss from VOM emissions does not exceed 60 grams per square meter of exposed surface area during molding; or

D) Use any materials or processes that are demonstrated to the satisfaction of the Agency to achieve VOM emission levels equivalent to any of the above. This alternative must be approved by the Agency and the USEPA in a federally enforceable permit or as a SIP revision.

2) For spraying operations, in addition to the requirements specified in Section 218.666(a)(1) above, use only high-volume low pressure (HVLP), airless, air-assisted airless, or electrostatic spray equipment, except for touch-up and repair using a hand-held, air-atomized spray gun which has a container for polyester resin material as part of the gun.

b) Any owner or operator of a polyester resin products manufacturing process subject to this Subpart shall use closed containers for all polyester resin materials, cleaning materials which contain VOM (including waste cleaning materials), and other materials that contain VOM (including waste resin materials) in such a manner as to effectively control VOM emissions to the atmosphere and in accordance with the practices described in the certification pursuant to Section 218.670(b)(2)(A).

c) Any owner or operator of a polyester resin products manufacturing process subject to this Subpart which formulates polyester resin material at the source shall comply with the following operating requirements:

1) A cover shall be in place on any tank, vat, or vessel with a capacity greater than 7.5 liters (2 gallons), including a container in which

polyester resin materials are delivered to the source, while polyester resin materials are being formulated. The cover shall:

A) Completely cover the tank, vat, or vessel opening except for an opening no larger than necessary to allow for safe clearance for a mixer shaft;

B) Extend at least 1.27 cm (0.5 inch) beyond the outer rim of the opening or be attached to the rim;

C) Remain closed except when adding or removing material or when sampling or inspection procedures require access; and

D) Be maintained in good condition such that, when in place, the cover maintains contact with the rim of the opening for at least 90% of the circumference of the rim.

2) Carry out emissions shall be minimized when a mixer used for formulation of polyester resin material is being removed from a tank, vat, or vessel containing polyester resin material by allowing the material retained on the mixer blades to drain back into the tank, vat, or vessel before the mixer is completely removed from the tank, vat, or vessel.

d) Any owner or operator of polyester resin products manufacturing processes subject to this Subpart which as a group use more than 4 gallons per day of cleaning materials which contain more than 200 grams of VOM per liter (1.7 pound per gallon) shall use a solvent recovery system for such materials. Solvent recovery may be done at the source or by using an off-site commercial solvent recovery service. The waste residue from a solvent recovery system located at the source shall not contain more than 20% VOM by weight.

(Source: Added at 18 Ill. Reg. 1945, effective January 24, 1994)

Section 218.667 Compliance Schedule

Every owner or operator of an emission unit subject to the control requirements of this Subpart shall comply with the requirements thereof on and after the date consistent with Section 218.106 of this Part.

(Source: Added at 18 Ill. Reg. 1945, effective January 24, 1994)

Section 218.668 Testing

a) Testing Methods.

1) The VOM content of fresh cleaning materials shall be determined from supplier data or by sampling and analysis using EPA Reference Method 24, incorporated by reference in Section 218.112 of this Part.

2) The VOM content of waste residue from a solvent recovery system shall be determined by sampling and analysis using EPA Reference Method 24, incorporated by reference in Section 218.112 of the Part.

3) The monomer content of polyester resin materials shall be determined:
   A) From supplier data and operating data;
   B) By sampling and analysis by the methods set forth in SCAQMD Method 312-91, incorporated by reference in Section 218.112 of this Part; or
   C) By site-specific sampling and analysis methods approved by the Agency and USEPA in a federally enforceable permit.

4) The weight loss from polyester resin material in a closed-mold system or pultrusion system during molding shall be determined:
   A) From supplier data and operating data;
   B) By testing of VOM emissions by the methods set forth in Section 218.105; or
   C) By material balance as follows: Separately weigh the polyester resin materials and the reinforcement materials before they are introduced into the mold. Weigh the molded product after it has cooled so that it can be manually handled but no sooner than one hour after removal of the product from the mold. The percent weight loss shall be determined according to the following equation:

$$PWL = \frac{[1 - (C-B)] \times 100}{A}$$

Where,
PWL = Percent Weight Loss;
A = Weight of polyester resin materials;
B = Weight of reinforcement material;
C = Weight of cooled molded product after at least one hour elapsed time.

   D) By site-specific sampling and analysis methods approved by the Agency and USEPA in a federally enforceable permit.

5) The weight loss from a vapor suppressed polyester resin material square meter of exposed surface area shall be determined:
   A) From supplier data and operating data;
   B) By sampling and analysis by the methods set forth in SCAQMD Method 309-91, incorporated by reference in Section 218.112; or

C) By site-specific sampling and analysis methods approved by the Agency and USEPA in a federally enforceable permit.

6) In the event of a difference between data obtained by sampling and analysis and other data, the data from sampling and analysis shall govern.

b) When in the opinion of the Agency it is necessary to conduct sampling and analysis to demonstrate compliance with Section 218.668 of this Part, the owner or operator of a polyester resin products manufacturing process subject to the requirements of this Subpart shall, at his own expense, conduct such sampling and analysis in accordance with the applicable test methods and procedures specified in subsection (a) above. The Agency's decision to invoke this subsection may be based on such factors including, but not limited to, a change in operation of the polyester resin products manufacturing process, or a reasonable belief that a previous test resulted in erroneous data.

c) Nothing in this Section shall limit the authority of USEPA pursuant to the Clean Air Act, as amended, to require sampling and analysis.

(Source: Added at 18 Ill. Reg. 1945, effective January 24, 1994)

Section 218.670 Recordkeeping and Reporting for Exempt Emission Units

Upon request by the Agency, the owner or operator of a polyester resin manufacturing process which is exempt from the requirements of Subpart CC of this Part shall submit to the Agency records that document that the polyester resin product manufacturing process is exempt from those requirements. These records shall be submitted within 30 calendar days from the date of the request.

(Source: Added at 18 Ill. Reg. 1945, effective January 24, 1994)

Section 218.672 Recordkeeping and Reporting for Subject Emission Units

a) Any owner or operator of a polyester resin products manufacturing process which is subject to the requirements of this Subpart shall comply with the following:

1) By a date consistent with Section 218.106 of this Part, or upon initial start-up of a process subject to this Subpart, the owner or operator of the subject process shall certify to the Agency that the process will be in compliance with Section 218.666(a) of this Subpart on and after a date consistent with Section 218.106 of this Part, or on and after the initial start-up date as demonstrated by testing in accordance with Section 218.668 of this Subpart. Such certification shall include:

A) The name and identification number of each polyester resin products manufacturing process at the source;

B) The name and identification number of each polyester resin material used in these processes, the means by which it may be applied and the classification of the polyester resin material under Section 218.666(a)(1)(A) of this Subpart;

C) The particular operating requirement with which each polyester resin material will comply, the actual monomer content of the material (percent by weight) and other relevant data to show compliance with the operating requirement, including:

i) For each polyester resin material which is classified as a material used for products requiring corrosion resistant or fire retardant materials, a material used for products requiring tensile strength of 10,000 psi or more, or a clear gel coat, justification for such classification if the material is applied to comply with the monomer content limitation of Section 218.666(a)(1)(A)(i), (ii), or (iii), respectively, of this Subpart;

ii) For each polyester resin material which is applied in a closed-mold or pultrusion system so as to comply with Section 218.666(a)(1)(B) of this Subpart, the weight loss from the polyester resin material (percent by weight) during molding;

iii) For each polyester resin material which is vapor suppressed so as to comply with Section 218.666(a)(1)(C) of this Subpart, the type and content (percent by weight) of catalyst in the materials, the maximum process temperature for resin application, the maximum gel time and the weight loss (grams per square meter exposed surface) during; and

iv) For each polyester resin material which is approved by the Agency and the USEPA in a federally enforceable permit or as a SIP revision so as to comply with Section 218.666(a)(1)(D) of this Subpart, information showing the VOM emissions level which is achieved and the VOM emissions which would result from compliance with Section 218.666(a)(1)(A), (B) or (C).

D) A description of the testing which was performed, in accordance with Section 218.668 of this Part, to determine the monomer content of polyester resin materials and the information in subsections (a)(1)(C)(ii), (iii) and (iv) and (a)(1)(D) above, including data, calculations, and descriptions and results of the sampling and analysis that

the owner or operator has relied upon to show compliance with Sections 218.666(a)(1) and (2) of this Subpart;

E) For spraying operations, the equipment for spraying polyester resin materials and the equipment for touch up and repair;

F) The method by which the owner or operator will create and maintain records required in subsections (b)(2) and (b)(3) below; and

G) An example of the format in which the records required in subsections (b)(2) and (b)(3) below will be kept.

2) On and after a date consistent with Section 218.106 of this Part or on and after initial start-up date, the owner or operator of a subject process shall collect and record the following information to maintain a complete record of all polyester resin materials which are used by such polyester resin products manufacturing process. This information shall be maintained at the source for a period of three years:

A) The name and identification number of each polyester resin material used in the process;

B) The particular operating requirement with which each polyester resin material will comply, the actual monomer content of the material (percent by weight) and other relevant data to show compliance with the operating requirement, including:

i) For each polyester resin material which is classified as a material used for products requiring corrosion resistant or fire retardant materials, a material used for products requiring tensile strength of 10,000 psi or more, or a clear gel coat, justification for such classification if the material is applied to comply with the monomer content limitation of Section 218.666(a)(1)(A)(i), (ii), or (iii), respectively, of this Subpart;

ii) For each polyester resin material which is applied in a closed-mold or pultrusion system so as to comply with Section 218.666(a)(1)(B) of this Subpart, the weight loss from the polyester resin material (percent by weight) during molding;

iii) For each polyester resin material which is vapor suppressed so as to comply with Section 218.666(a)(1)(C) of this Subpart, the type and content (percent by weight) of catalyst in the material, the maximum process temperature for resin application, the maximum gel time and the weight loss (grams per square meter exposed surface) during molding; and

iv) For each polyester resin material which is approved by the Agency and the USEPA in a federally enforceable permit or as a SIP revision so as to comply with Section 218.666(a)(1)(D) of this Subpart, information showing the VOM emission level which is achieved and the VOM emissions which would result from compliance with Section 218.666(a)(1)(A), (B), or (C) of this Subpart;

C) A description of the testing which was performed, in accordance with Section 218.668 of this Part, to determine the monomer content of polyester resin materials and the information in subsections (a)(1)(C)(ii), (iii) and (iv) and (a)(1)(D) above, including data, calculations, and descriptions and results of the sampling and analysis that the owner or operator has relied upon to show compliance with Section 218.666(a)(1) of this Subpart;

D) The processes and applications for which each polyester resin material may be used in compliance with applicable operating requirements, including:

i) For each polyester resin material which is classified as a material used for products requiring corrosion resistant or fire retardant material or a material used for products requiring tensile strength of 10,000 psi or more which is applied to comply with the monomer content limitation of Section 218.666(a)(1)(A)(i) or (ii), respectively, of this Subpart, the required products or circumstances for the materials' use;

ii) For each polyester resin material which is applied in a closed-mold or pultrusion system so as to comply with Section 218.666(a)(1)(B) of this Subpart, the required process temperature and minimum mold cycle time or maximum pultrusion speed;

iii) For each polyester resin material which is vapor suppressed so as to comply with Section 218.666(a)(1)(C) of this Subpart, the required thickness of the manufactured product, the type and amount of catalyst in the resin, and the maximum process temperature and maximum gel time; and

iv) For each polyester resin material which is approved by the Agency and approved by the USEPA as a SIP revision so as to comply with Section 218.666(a)(1)(D) of this Subpart, the required process operating conditions or product specifications; and

E) For each polyester resin material which is applied in a spraying operation, the type of spray equipment with which the material will be applied so as to comply with Section 218.666(a)(2) of this Subpart.

3) On and after the date consistent with Section 218.106 of this Part, or on and after the initial start-up date, the owner or operator of a subject process shall collect and record all of the following information each day for each process and maintain the information at the source for a period of three years:

A) The name, identification number and amount of each polyester resin material applied on each process; and

B) The specific data identified pursuant to Section 218.672(a)(2)(D) of this Subpart to confirm that the polyester resin material was applied in such a manner that it complied with the applicable operating requirement.

4) On and after a date consistent with Section 218.106 of this Part, the owner or operator of a subject process shall notify the Agency:

A) Of any violation of the operating requirements of this Subpart by sending a copy of such record to the Agency within 30 days following the occurrence of the violation; and

B) At least 30 calendar days before changing the method of compliance with this Subpart from one operating requirement among Section 218.666(a)(1)(A), (B), (C), or (D) of this Subpart to another operating requirement, of compliance with all requirements of subsection (a)(1) above. Upon changing the method of compliance with this Subpart from one operating requirement to another, the owner or operator shall comply with all applicable requirements of subsection (a) above.

b) Any owner or operator of a polyester resin product manufacturing process subject to the requirements of Subpart CC of this Part shall comply with the following:

1) On a date consistent with Section 218.106 of this Part or upon initial start-up of a new source, the owner or operator of the source shall certify to the Agency that the source will be in compliance with Sections 218.666(b) and (d) of this Subpart on and after a date consistent with Section 218.106 of this Part, or on or after the initial start-up date. Such certification shall include:

A) A description of the handling practices for polyester resin material, cleaning materials which contain VOM and waste materials which contain VOM including the use of closed containers and a statement that these practices effectively control VOM emissions to the atmosphere; and

B) The usage on a daily basis of each cleanup material which contains VOM, the VOM content per liter of each such

material and whether a reclamation system is required by Section 218.666(d) of this Subpart for such material or will be used; a description of the solvent recovery practices if recovery is required or will be used; and a statement that where a solvent recovery system is required and will be at the source, that the waste residue contains 20% or less VOM by weight.

2) 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 the process shall collect and record all the following information and maintain the information at the source for a period of three years:

A) 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;

B) Information on a daily basis confirming the proper use of a recovery system if one is required or is used, including operation of a recovery system at the source to produce a waste residue that is 20% or less VOM by weight and information identifying any observation of noncompliance; and

C) Information on a daily basis on the use of cleaning materials which contain more than 200 grams of VOM per liter (1.7 pound per gallon) if a recovery system is not required or is not used. This information shall include the name, identification number, amount used and VOM content of each such cleaning material.

3) On and after a date consistent with Section 218.106 of this Part, the owner or operator of a subject process shall notify the Agency:

A) Of a violation of the requirements of this Subpart with respect to handling practices and solvent recovery for cleaning materials by sending a copy of all such records to the Agency within 30 days following the calendar quarter in which such violation occurred; or

B) Within 30 calendar days of changing the handling practices for polyester resin materials, cleaning materials and waste materials or changing source practice with respect to a solvent recovery system for cleaning materials, describing the change.

c) Any owner or operator of a polyester resin product manufacturing process subject to the requirements of this Subpart that formulates polyester resin material at the source shall comply with the following:

1) On a date consistent with Section 218.106 of this Part or upon initial start-up of a new emission unit, the owner or operator of the source shall certify to the Agency that the emission unit will be in

compliance with Section 218.666(c) of this Subpart on and after a date consistent with Section 218.106 of this Part or on and after the initial start-up date. Such certification shall include:

A) A description of the equipment used for formulation of polyester resin materials, including the types of tanks, vats, and vessels and their size and the types of mixers and the covers associated with this equipment; and

B) A description of the practices used to minimize VOM emissions to the atmosphere from formulation activity, including the use and maintenance of covers on tanks, vats, and vessels and drainage of mixers.

2) 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 the process shall collect and record all the following information and maintain the information at the source for a period of three years:

A) The date, time, and duration of scheduled inspections to confirm the proper use and maintenance of covers on vats, vessels, and tanks and proper drainage of mixers and any instance of improper use, with description of actual practice and corrective action taken, if any;

B) A maintenance log for covers on vats, vessels, and tanks, detailing all routine and non-routine maintenance performed and initial use of new covers, including dates of such activities.

3) On and after a date consistent with Section 218.106 of this Part, the owner or operator of a subject process shall notify the Agency:

A) Of a violation of the requirements of this Subpart with respect to formulation of polyester resin material by sending a copy of all such records to the Agency within 30 days following the calendar quarter in which such violation occurred: or

B) Within 30 calendar days of changing the handling practices for formulation of polyester resin materials, describing the change.

(Source: Added at 18 Ill. Reg. 1945, effective January 24, 1994)

SUBPART DD: AEROSOL CAN FILLING

Section 218.680 Applicability

a) Potential to emit:

1) A source is subject to this Subpart if it is not subject to the requirements of Subparts PP, QQ, RR and TT and has the potential to emit 22.7 Mg (25 tons) or more of VOM per year, in aggregate, from emission units that are:

Pages deleted