ILLINOIS POLLUTION CONTROL BOARD June 5, 2014

IN THE MATTER OF:)	
DEFINITION OF VOM UPDATE, USEPA)	R14-16
REGULATIONS (July 1, 2013 through)	(Identical-in-Substance Rulemaking - Air)
December 31, 2013))	

Adopted Rule. Final Order.

OPINION AND ORDER OF THE BOARD (by J.A. Burke):

This rulemaking updates the definition of "volatile organic material" (VOM) in the Board's air pollution regulations (35 Ill. Adm. Code 211.7150). The update is needed to ensure that Illinois' regulations reflect the United States Environmental Protection Agency's (USEPA) most recent exclusions of chemical compounds from regulation as ozone precursors. The update includes all USEPA actions in this regard that occurred during the period from July 1, 2013 through December 31, 2013.

This opinion and order is organized into four segments in the following order: (1) an overview of this proceeding that describes the subject matter and regulatory context; (2) segments that explain opportunities for submission of public comments and participation at a public hearing that the Board will conduct for this proceeding, and which set forth the various currently projected dates towards completion of these amendments; (3) a segment that includes substantive discussion of the federal amendments and resulting Board actions, including tables that outline USEPA amendments that the Board has not followed, deviations from the literal text of the USEPA amendments, and corrections and amendments that are not directly derived from USEPA amendments; and (4) the Board's order, which includes the text of the adopted amendments.

OVERVIEW OF THIS PROCEEDING

Today the Board adopts an amendment that adds one compound to the list of those excluded from the definition of volatile organic material (VOM). The amendment adopted today responds to one USEPA action that resulted in a single USEPA amendment to the federal definition of "volatile organic compound" (VOC) codified at 40 C.F.R. 51.100(s). VOM in the Illinois rules and throughout this opinion and order has the same meaning as does VOC in the federal regulations. *Compare* 35 Ill. Adm. Code 211.7150 *with* 40 C.F.R. 51.100(s) (2013). As is explained below, Board action is already complete on another USEPA amendment to the definition of VOM during the update period.

The Board reserved this docket to accommodate USEPA amendments to the federal definition of VOM during the period July 1, 2013 through December 31, 2013. The USEPA actions during the period from July 1, 2013 through December 31, 2013 are summarized as follows:

<u>August 28, 2013 (78 Fed. Reg. 53029):</u> USEPA excluded *trans*-1-chloro-3,3,3-trifluoro prop-1-ene (CAS 102687-65-0) from the definition of VOM.

October 22, 2013 (78 Fed. Reg. 62451): USEPA excluded 2,3,3,3-tetrafluoropropene (CAS 754-12-1) from the definition of VOM.

The Board must amend the Illinois definition of VOM in response to the USEPA action of October 22, 2013. The Board included the August 28, 2013 USEPA action in the prior update docket, Definition of VOM Update, USEPA Amendments January 1, 2013 through June 30, 2013 and August 28, 2013), R14-7 (Nov. 21, 2013). No further Board action on that USEPA action is necessary.

Section 9.1(e) of the Environmental Protection Act (Act) (415 ILCS 5/9.1(e) (2012)) mandates this rulemaking. That statutory provision requires the Board to exclude from the definition of VOM those compounds determined by USEPA to be excluded from regulation under the state implementation plans for ozone "due to negligible photochemical reactivity." 415 ILCS 5/9.1(e) (2012). In addition, Section 9.1(e) of the Act requires the Board to conduct this rulemaking pursuant to the provisions of Section 7.2(b) of the Act (415 ILCS 5/7.2(b) (2012)) for adopting rules that are "identical in substance" to the federal requirements.

Section 9.1(e) also provides that Title VII of the Act and Section 5-35 of the Administrative Procedure Act (APA) (5 ILCS 100/5-35 (2012)) do not apply to this type of rulemaking. Accordingly, the Board will not adopt a "First Notice" proposal, or a "Second Notice" proposal for review by the Joint Committee on Administrative Rules (JCAR). However, as provided in Section 9.1(e) of the Act and explained in the two following segments of this opinion and order, the Board, before adopting final rule amendments, provided notice of this rulemaking proposal in the *Illinois Register*, held one public hearing on the proposal as required by the federal Clean Air Act (33 U.S.C. § 7410(a) (2012)), and allowed for public comment.

PUBLIC COMMENTS

The Board adopted a proposal for public comment in this matter on March 20, 2014. A Notice of Proposed Amendment appeared in the April 11, 2014 issue of the *Illinois Register*, at 38 Ill. Reg. 7749. The Board received public comments on the proposal for 45 days after the date of publication, until May 26, 2014. During the public comment period, the Board received no public comments. The Board did receive a copy of the amendments as published in the *Illinois Register*, which included a suggested correction made by JCAR during preparation for publication. The Board has incorporated an alternative correction to that suggested by JCAR in the text of the adopted amendment. The correction is listed in Table 2 appended below. Table 3, also appended below, indicates the correction suggested by JCAR and explains why the Board did not make the correction as suggested.

FEDERALLY REQUIRED PUBLIC HEARING

The Board expects that the Illinois Environmental Protection Agency (Agency) will submit the present amendments as a revision to the Illinois State Implementation Plan (SIP) for ozone pursuant to section 110 of the federal Clean Air Act (42 U.S.C. § 7410(a) (2012) and the implementing USEPA regulations. *See* 40 C.F.R. 51.102 and appendix V (2013).

As authorized by 415 ILCS 5/9.1(e), the Board scheduled a public hearing to occur in this rulemaking for the purpose of allowing interested members of the public to comment on the

proposed amendments and the anticipated SIP revision that will result from their adoption. The Board simultaneously conducted the hearing at two locations via video conference so that persons at both locations could freely participate in the proceedings. 35 Ill. Adm. Code 102.412(c) (provision for videoconference hearing in identical-in-substance rulemaking). The hearing occurred on May 7, 2014 between the Board's offices in Chicago and Springfield.

The record in this docket includes all documents pertaining to this proceeding. All documents in the record are publicly available for inspection and copying as provided in 2 Ill. Adm. Code 2175 (2012). The documents are also freely available online at the Board's webpage: www.ipcb.state.il.us.

The record has not included a copy of the following documents, which are all otherwise publicly available:

- The *Federal Register* notice that prompted this action (referenced elsewhere in this opinion and order);
- Federal statutes and regulations referenced in this opinion and order; and
- Illinois statutes and regulations referenced in this opinion and order.

DISCUSSION

Board Actions Directly Based on Federal Amendments

<u>USEPA Action of October 22, 2013.</u> On October 22, 2013 (at 78 Fed. Reg. 62451), USEPA added one hydrofluoroolefin compound to the list of chemical species that are excluded from the federal definition of VOC and, accordingly, are excluded from regulation for control of ozone precursors.

The newly excluded compound is the following:

2,3,3,3-tetrafluoroprop-1-ene

CAS no.: 754-12-1

chemical formula: CH₂CFCF₃

alternative common names: 2,3,3,3-tetrafluoropropene; 2,3,3,3-

tetrafluoropropylene; HFO-1234yf; R-1234yf

USEPA excluded the HFO compound based on a 2009 petition of Honeywell Inc. The compound can be used as a refrigerant in refrigeration and air conditioning systems. Honeywell anticipates that HFO-1234yf will find widespread use as a replacement for HFC-134a in motor vehicle air conditioning systems. In their intended uses, the four compounds would replace ozone-depleting substances.

The global warming potential (GWP) for HFO-1234yf is 4, which is substantially lower than the 100-year GWP of 1430 for HFC-134a. USEPA determined that HFO-1234yf has a photochemical reactivity potential higher than ethane (as factored based on their respective k_{OH} rate constants) because HFO-1234yf initially reacts more rapidly than does ethane. Despite this, a gram of HFO1234yf has the same or slightly lower reactivity as does a gram of ethane. USEPA estimated that widespread use of HFO-1234yf in place of HFE-134e will result in a 0.01

percent increase in tropospheric ozone formation, but USEPA did not consider this sufficient to deny the exclusion.

USEPA observed that use of HFO-1234yf in motor vehicle air conditioning systems would pose no greater risk to human health than do the compounds (HFE-134a and CFC-12) for which it would substitute. USEPA stated that it would not require notification before sales of HFO-1234yf could occur on the consumer market for end-user substitution for HFE-134a in motor vehicle air conditioning systems.

Any person interested in the substance of the exclusion of HFO-1234yf should refer to the October 22, 2013 *Federal Register* discussion that accompanied the USEPA amendments. Alternatively, interested persons could contact USEPA as directed in the *Federal Register* notice.

The Present Board Action. The Board has incorporated the new excluded HFO compound without substantive changes. Nevertheless, the Board found minor revisions to the federal text necessary. The revisions involve (1) placing the new HFO compounds in alphabetic order in the list; and (2) adding the refrigerant industry designation "HFO-1234yf" in parentheses after the chemical name. These revisions are itemized and summarily outlined in Table 1, which is appended at the end of the opinion segment of this opinion and order Error! Bookmark not defined. The Board chose to use the chemical name used by USEPA, and not the IUPAC name, in the listing for this exclusion. No further discussion of many of those changes will appear in this opinion and order.

Request for Public Comments: In the March 20, 2014 proposal for public comment, the Board requested comments on the incorporation of the new October 22, 2013 USEPA exclusion from the definition of VOM. In particular, the Board requested comments on the chemical name and parenthetically added refrigerant industry designation for the compound. The Board received no comments in response.

<u>Deviations from the Literal Text of the Federal Amendments</u> and Non-Federally Derived Corrections and Clarifications

The Board routinely examines federal amendments and the base text of rules open for amendments to find any areas that need correction or clarification. JCAR and the Office of the Secretary of State also routinely examine the text and suggest corrections and clarifications. Sometimes suggestions arise from the Agency, USEPA, or members of the regulated community. The Board often makes revisions as a result.

The revisions thus made are not directly derived from federal amendments. The Board is ever mindful of the limited discretion authorized in the context of an identical-in-substance proceeding. The Board is limited to "those changes that are necessary for compliance with the Illinois Administrative Code," "technical changes that in no way change the scope or meaning of any portion of the regulations," and "apparent typographical and grammatical errors." *See* 415 ILCS 5/7.2(a) and (a)(7) (2012). Thus, the Board will only make minor, non-substantive corrections and clarifications in this context. These corrections are non-substantive in effect.

The tables below list numerous corrections and amendments that are not based on current federal amendments. Table 1 lists a deviation made in this proposal for public comment from

the verbatim text of the federal amendments. Table 2 indicates the single revision made to the text of the amendments from that proposed and set forth in the Board's opinion and order of March 20, 2014. Table 3 indicates the change made, as well as the source of that change. Table 3 indicates a suggested revision that the Board has not made in adopting these amendments. The entry gives the source of the suggestion, a description of the suggestion, and a brief explanation why the Board did not incorporate the suggested change.

Table 1: Deviation from the Text of the Federal Amendments

Illinois Section	40 C.F.R. Section	Revision(s)
211.2170, "2,3,3,3- tetrafluoropropene"	50.100(s)(1), "2,3,3,3- tetrafluoropropene"	Placed the newly excluded compound in alphabetic order in the list; added the refrigerant industry designation "HFO-1234yf" in parentheses after the chemical name.

Table 2: Revision to the Text of the Proposed Amendments Made in Final Adoption

Section	Source	Revision(s)
211.7150(d)	Board, JCAR	Changed "subsection (b) above" to "subsection (b) of this Section." See the entry in Table 3 below.

Table 3: Requested Revision to the Text of the Proposed Amendments Not Made in Final Adoption

Section Affected	Source of Request: Requested Revision	Explanation
211.7150(d)	JCAR: Change "subsection (b) above" to "subsection (b) of this Section."	The Administrative Code Unit has consistently required use of the appended words "above" or "below," as appropriate, or "of this Section" for such cross-references within a Section. The Board chose an alternative. See the entry in Table 2 above.

HISTORICAL SUMMARY OF THE FEDERAL RECOMMENDED POLICY ON THE CONTROL OF VOLATILE ORGANIC COMPOUNDS AND ITS IMPLEMENTATION IN ILLINOIS

The Board traditionally included historical summaries of the State and federal definitions of VOM in each opinion and order. That summary traces the evolution of the federal *Recommended Policy on the Control of Volatile Organic Compounds*; USEPA's codification of the policy as a definition in 40 C.F.R. 51.100(s); subsequent amendments of 40 C.F.R. 51.100(s); the several dockets that the Board has reserved to accommodate federal amendments, including indication of the several amendments to the definition of VOM that the Board has made based on USEPA's actions.

In a break from past tradition, the Board no longer includes the lengthy summaries in opinions and orders relating to the definition of VOM. The Board maintains an updated version of the historical summaries on the Board's website: www.ipcb.state.il.us. Persons wishing to review the historical summaries of the federal and State exclusions from the definitions of VOM must consult the Board's website or Board staff to do so.

ORDER

The Board directs the Clerk to immediately file the adopted amendments with the Office of the Secretary of State and provide notice in the *Illinois Register* of the following adopted amendments to the definition of VOM at 35 Ill. Adm. Code 211.7150:

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	Incorporated and Referenced Materials
211.102	Abbreviations and Conversion Factors
	SUBPART B: DEFINITIONS
Section	
211.121	Other Definitions
211.122	Definitions (Repealed)
211.130	Accelacota
211.150	Accumulator
211.170	Acid Gases
211.200	Acrylonitrile Butadiene Styrene (ABS) Welding
211.210	Actual Heat Input
211.230	Adhesive

Section

211.233	Adhesion Primer
211.235	Adhesive Primer
211.240	Adhesion Promoter
211.250	Aeration
211.260	Aerosol Adhesive and Adhesive Primer
211.270	Aerosol Can Filling Line
211.290	Afterburner
211.310	Air Contaminant
211.330	Air Dried Coatings
211.350	Air Oxidation Process
211.370	Air Pollutant
211.390	Air Pollution
211.410	Air Pollution Control Equipment
211.430	Air Suspension Coater/Dryer
211.450	Airless Spray
211.470	Air Assisted Airless Spray
211.474	Alcohol
211.479	Allowance
211.481	Ammunition Sealant
211.484	Animal
211.485	Animal Pathological Waste
211.490	Annual Grain Through-Put
211.492	Antifoulant Coating
211.493	Antifouling Sealer/Tie Coat
211.495	Anti-Glare/Safety Coating
211.510	Application Area
211.530	Architectural Coating
211.540	Architectural Structure
211.550	As Applied
211.560	As-Applied Fountain Solution
211.570	Asphalt
211.590	Asphalt Prime Coat
211.610	Automobile
211.630	Automobile or Light-Duty Truck Assembly Source or Automobile or Light-Duty
	Truck Manufacturing Plant
211.650	Automobile or Light-Duty Truck Refinishing
211.660	Automotive/Transportation Plastic Parts
211.665	Auxiliary Boiler
211.670	Baked Coatings
211.680	Bakery Oven
211.685	Basecoat/Clearcoat System
211.690	Batch Loading
211.695	Batch Operation
211.696	Batch Process Train
211.710	Bead-Dipping
211.715	Bedliner

211.730	Binders
211.735	Black Coating
211.740	Brakehorsepower (rated-bhp)
211.750	British Thermal Unit
211.770	Brush or Wipe Coating
211.790	Bulk Gasoline Plant
211.810	Bulk Gasoline Terminal
211.820	Business Machine Plastic Parts
211.825	Camouflage Coating
211.830	Can
211.850	Can Coating
211.870	Can Coating Line
211.880	Cap Sealant
211.890	Capture
211.910	Capture Device
211.930	Capture Efficiency
211.950	Capture System
211.953	Carbon Adsorber
211.954	Cavity Wax
211.955	Cement
211.960	Cement Kiln
211.965	Ceramic Tile Installation Adhesive
211.970	Certified Investigation
211.980	Chemical Manufacturing Process Unit
211.990	Choke Loading
211.995	Circulating Fluidized Bed Combustor
211.1000	Class II Finish
211.1010	Clean Air Act
211.1050	Cleaning and Separating Operation
211.1070	Cleaning Materials
211.1090	Clear Coating
211.1110	Clear Topcoat
211.1120	Clinker
211.1128	Closed Molding
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
211.1312	Combined Cycle System
211.1315	Combustion Tuning

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211.1870 Effluent Water Separator 211.1872 Ejection Cartridge Sealant		<u>*</u>
211.1872 Ejection Cartridge Sealant		
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211.1875 Elastomeric Materials		<u> </u>
	211.1875	Elastomeric Materials

211.1876	Electric Dissipating Coating
211.1877	Electric-Insulating Varnish
211.1878	Electrical Apparatus Component
211.1880	Electrical Switchgear Compartment Coating
211.1882	Electrodeposition Primer (EDP)
211.1883	Electromagnetic Interference/Radio Frequency Interference (EMI/RFI) Shielding
	Coatings
211.1885	Electronic Component
211.1890	Electrostatic Bell or Disc Spray
211.1900	Electrostatic Prep Coat
211.1910	Electrostatic Spray
211.1920	Emergency or Standby Unit
211.1930	Emission Rate
211.1950	Emission Unit
211.1970	Enamel
211.1990	Enclose
211.2010	End Sealing Compound Coat
211.2030	Enhanced Under-the-Cup Fill
211.2040	Etching Filler
211.2050	Ethanol Blend Gasoline
211.2055	Ethylene Propylenediene Monomer (DPDM) Roof Membrane
211.2070	Excess Air
211.2080	Excess Emissions
211.2090	Excessive Release
211.2110	Existing Grain-Drying Operation (Repealed)
211.2130	Existing Grain-Handling Operation (Repealed)
211.2150	Exterior Base Coat
211.2170	Exterior End Coat
211.2190	External Floating Roof
211.2200	Extreme High-Gloss Coating
211.2210	Extreme Performance Coating
211.2230	Fabric Coating
211.2250	Fabric Coating Line
211.2270	Federally Enforceable Limitations and Conditions
211.2285	Feed Mill
211.2290	Fermentation Time
211.2300	Fill
211.2310	Final Repair Coat
211.2320	Finish Primer Surfacer
211.2330	Firebox
211.2350	Fixed-Roof Tank
211.2355	Flare
211.2357	Flat Glass
211.2358	Flat Wood Paneling
211.2359	Flat Wood Paneling Coating Line
211.2360	Flexible Coating
211.2500	

211.2365	Flexible Operation Unit
211.2368	Flexible Packaging
211.2369	Flexible Vinyl
211.2370	Flexographic Printing
211.2390	Flexographic Printing Line
211.2410	Floating Roof
211.2415	Fog Coat
211.2420	Fossil Fuel
211.2425	Fossil Fuel-Fired
211.2430	Fountain Solution
211.2450	Freeboard Height
211.2470	Fuel Combustion Emission Unit or Fuel Combustion Emission Source
211.2490	Fugitive Particulate Matter
211.2510	Full Operating Flowrate
211.2525	Gasket/Gasket Sealing Material
211.2530	Gas Service
211.2550	Gas/Gas Method
211.2570	Gasoline
211.2590	Gasoline Dispensing Operation or Gasoline Dispensing Facility
211.2610	Gel Coat
211.2615	General Work Surface
211.2620	Generator
211.2622	Glass Bonding Primer
211.2625	Glass Melting Furnace
211.2630	Gloss Reducers
211.2650	Grain
211.2670	Grain-Drying Operation
211.2690	Grain-Handling and Conditioning Operation
211.2710	Grain-Handling Operation
211.2730	Green-Tire Spraying
211.2750	Green Tires
211.2770	Gross Heating Value
211.2790	Gross Vehicle Weight Rating
211.2800	Hardwood Plywood
211.2810	Heated Airless Spray
211.2815	Heat Input
211.2820	Heat Input Rate
211.2825	Heat-Resistant Coating
211.2830	Heatset
211.2840	Heatset Web Letterpress Printing Line
211.2850	Heatset Web Offset Lithographic Printing Line
211.2870	Heavy Liquid
211.2890	Heavy Metals
211.2910	Heavy Off-Highway Vehicle Products
211.2930	Heavy Off-Highway Vehicle Products Coating
211.2950	Heavy Off-Highway Vehicle Products Coating Line
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211.2955	High Bake Coating
211.2956	High Build Primer Surfacer
211.2958	High Gloss Coating
211.2960	High-Performance Architectural Coating
211.2965	High Precision Optic
211.2970	High Temperature Aluminum Coating
211.2980	High Temperature Coating
211.2990	High Volume Low Pressure (HVLP) Spray
211.3010	Hood
211.3030	Hot Well
211.3050	Housekeeping Practices
211.3070	Incinerator
211.3070	Indirect Heat Transfer
211.3095	Indoor Floor Covering Installation Adhesive
211.3100	Industrial Boiler
211.3100	Ink
211.3110	
	In-Line Repair In-Process Tank
211.3130	
211.3150	In-Situ Sampling Systems
211.3170	Interior Body Spray Coat
211.3190	Internal-Floating Roof
211.3210	Internal Transferring Area
211.3215	Janitorial Cleaning
211.3230	Lacquers
211.3240	Laminate
211.3250	Large Appliance
211.3270	Large Appliance Coating
211.3290	Large Appliance Coating Line
211.3300	Lean-Burn Engine
211.3305	Letterpress Printing Line
211.3310	Light Liquid
211.3330	Light-Duty Truck
211.3350	Light Oil
211.3355	Lime Kiln
211.3370	Liquid/Gas Method
211.3390	Liquid-Mounted Seal
211.3410	Liquid Service
211.3430	Liquids Dripping
211.3450	Lithographic Printing Line
211.3470	Load-Out Area
211.3475	Load Shaving Unit
211.3480	Loading Event
211.3483	Long Dry Kiln
211.3485	Long Wet Kiln
211.3487	Long Wet Killi Low-NOx Burner
211.3490	Low Solvent Coating
411.J 4 7U	Low Borvent Coating

211.3500	Lubricating Oil
211.3505	Lubricating Wax/Compound
211.3510	Magnet Wire
211.3530	Magnet Wire Coating
211.3550	Magnet Wire Coating Line
211.3555	Maintenance Cleaning
211.3570	Major Dump Pit
211.3590	Major Metropolitan Area (MMA)
211.3610	Major Population Area (MPA)
211.3620	Manually Operated Equipment
211.3630	Manufacturing Process
211.3650	Marine Terminal
211.3660	Marine Vessel
211.3665	Mask Coating
211.3670	Material Recovery Section
211.3690	Maximum Theoretical Emissions
211.3695	Maximum True Vapor Pressure
211.3705	Medical Device
211.3707	Medical Device and Pharmaceutical Manufacturing
211.3710	Metal Furniture
211.3730	Metal Furniture Coating
211.3750	Metal Furniture Coating Line
211.3760	Metallic Coating
211.3770	Metallic Shoe-Type Seal
211.3775	Metal to Urethane/Rubber Molding or Casting Adhesive
211.3780	Mid-Kiln Firing
211.3785	Military Specification Coating
211.3790	Miscellaneous Fabricated Product Manufacturing Process
211.3810	Miscellaneous Formulation Manufacturing Process
211.3820	Miscellaneous Industrial Adhesive Application Operation
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
211.3915	Mobile Equipment
211.3925	Mold Seal Coating
211.3930	Monitor
211.3950	Monomer
211.3960	Motor Vehicles
211.3961	Motor Vehicle Adhesive
211.3965	Motor Vehicle Refinishing
211.3966	Motor Vehicle Weatherstrip Adhesive
211.3967	Mouth Waterproofing Sealant
211.3968	Multi-Colored Coating
211.3969	Multi-Component Coating
_11.0707	1.2022 Component Coming

211 2050					
211.3970	Multiple Package Coating				
211.3975	Multipurpose Construction Adhesive				
211.3980	Nameplate Capacity				
211.3985	Natural Finish Hardwood Plywood Panel				
211.3990	New Grain-Drying Operation (Repealed)				
211.4010	New Grain-Handling Operation (Repealed)				
211.4030	No Detectable Volatile Organic Material Emissions				
211.4050	Non-Contact Process Water Cooling Tower				
211.4052	Non-Convertible Coating				
211.4055	Non-Flexible Coating				
211.4065	Non-Heatset				
211.4067	NO _x Trading Program				
211.4070	Offset				
211.4080	One-Component Coating				
211.4090	One Hundred Percent Acid				
211.4110	One-Turn Storage Space				
211.4130	Opacity				
211.4150	Opaque Stains				
211.4170	Open Top Vapor Degreasing				
211.4190	Open-Ended Valve				
211.4210	Operator of a Gasoline Dispensing Operation or Operator of a Gasoline				
	Dispensing Facility				
211.4220	Optical Coating				
211.4230	Organic Compound				
211.4250	Organic Material and Organic Materials				
211.4260	Organic Solvent				
211.4270	Organic Vapor				
211.4280	Other Glass				
211.4285	Outdoor Floor Covering Installation Adhesive				
211.4290	Oven				
211.4310	Overall Control				
211.4330	Overvarnish				
211.4350	Owner of a Gasoline Dispensing Operation or Owner of a Gasoline Dispensing				
	Facility				
211.4370	Owner or Operator				
211.4390	Packaging Rotogravure Printing				
211.4410	Packaging Rotogravure Printing Line				
211.4430	Pail				
211.4450	Paint Manufacturing Source or Paint Manufacturing Plant				
211.4455	Pan-Backing Coating				
211.4460	Panel				
211.4470	Paper Coating				
211.4490	Paper Coating Line				
211.4510	Particulate Matter				
211.4530	Parts Per Million (Volume) or PPM (Vol)				
211.4540	Perimeter Bonded Sheet Flooring				

211.4550	Person				
211.4590	Petroleum				
211.4610	Petroleum Liquid				
211.4630	Petroleum Refinery				
211.4650	Pharmaceutical Pharmaceutical				
211.4670	Pharmaceutical Coating Operation				
211.4690	Photochemically Reactive Material				
211.4710	Pigmented Coatings				
211.4730	Plant				
211.4735	Plastic				
211.4740	Plastic Part				
211.4750	Plasticizers				
211.4760	Plastic Solvent Welding Adhesive				
211.4765	Plastic Solvent Welding Adhesive Primer				
211.4768	Pleasure Craft				
211.4769	Pleasure Craft Surface Coating				
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				
211.4895	Polyvinyl Chloride Plastic (PVC Plastic)				
211.4900	Porous Material				
211.4910	Portable Grain-Handling Equipment				
211.4930	Portland Cement Manufacturing Process Emission Source				
211.4950	Portland Cement Process or Portland Cement Manufacturing Plant				
211.4960	Potential Electrical Output Capacity				
211.4970	Potential to Emit				
211.4990	Power Driven Fastener Coating				
211.5010	Precoat				
211.5012	Prefabricated Architectural Coating				
211.5015	Preheater Kiln				
211.5020	Preheater/Precalciner Kiln				
211.5030	Pressure Release				
211.5050	Pressure Tank				
211.5060	Pressure/Vacuum Relief Valve				
211.5061	Pretreatment Coating				
211.5062	Pretreatment Wash Primer				
211.5065	Primary Product				
211.5070	Prime Coat				
211.5075	Primer Sealant				
211.5080	Primer Sealer				
211.5090	Primer Surfacer Coat				
211.5110	Primer Surfacer Operation				
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211.5130	Primers		
211.5140	Printed Interior Panel		
211.5150	Printing		
211.5170	Printing Line		
211.5185	Process Emission Source		
211.5190	Process Emission Unit		
211.5195	Process Heater		
211.5210	Process Unit		
211.5230	Process Unit Shutdown		
211.5245	Process Vent		
211.5250	Process Weight Rate		
211.5270	Production Equipment Exhaust System		
211.5310	Publication Rotogravure Printing Line		
211.5330	Purged Process Fluid		
211.5335	Radiation Effect Coating		
211.5340	Rated Heat Input Capacity		
211.5350	Reactor		
211.5370	Reasonably Available Control Technology (RACT)		
211.5390	Reclamation System		
211.5400	Red Coating		
211.5410	Refiner		
211.5430	Refinery Fuel Gas		
211.5450	Refinery Fuel Gas System		
211.5470	Refinery Unit or Refinery Process Unit		
211.5480	Reflective Argent Coating		
211.5490	Refrigerated Condenser		
211.5500	Regulated Air Pollutant		
211.5510	Reid Vapor Pressure		
211.5520	Reinforced Plastic Composite		
211.5530	Repair		
211.5535	Repair Cleaning		
211.5550	Repair Coat		
211.5570	Repaired		
211.5580	Repowering		
211.5585	Research and Development Operation		
211.5590	Residual Fuel Oil		
211.5600	Resist Coat		
211.5610	Restricted Area		
211.5630	Retail Outlet		
211.5640	Rich-Burn Engine		
211.5650	Ringelmann Chart		
211.5670	Roadway		
211.5690	Roll Coater		
211.5710	Roll Coating		
211.5730	Roll Printer		
211.5750	Roll Printing		
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211.5770	Rotogravure Printing			
211.5790	Rotogravure Printing Line			
211.5800	Rubber			
211.5810	Safety Relief Valve			
211.5830	Sandblasting			
211.5850	Sanding Sealers			
211.5860	Scientific Instrument			
211.5870	Screening			
211.5875	Screen Printing			
211.5880	Screen Printing on Paper			
211.5885	Screen Reclamation			
211.5890	Sealer			
211.5910	Semi-Transparent Stains			
211.5930	Sensor			
211.5950	Set of Safety Relief Valves			
211.5970	Sheet Basecoat			
211.5980	Sheet-Fed			
211.5985	Sheet Rubber Lining Installation			
211.5987	Shock-Free Coating			
211.5990	Shotblasting			
211.6010	Side-Seam Spray Coat			
211.6012	Silicone-Release Coating			
211.6015	Single-Ply Roof Membrane			
211.6017	Single-Ply Roof Membrane Adhesive Primer			
211.6020	Single-Ply Roof Membrane Installation and Repair Adhesive			
211.6025	Single Unit Operation			
211.6030	Smoke			
211.6050	Smokeless Flare			
211.6060	Soft Coat			
211.6063	Solar-Absorbent Coating			
211.6065	Solids Turnover Ratio (R _T)			
211.6070	Solvent			
211.6090	Solvent Cleaning			
211.6110	Solvent Recovery System			
211.6130	Source			
211.6140	Specialty Coatings			
211.6145	Specialty Coatings for Motor Vehicles			
211.6150	Specialty High Gloss Catalyzed Coating			
211.6170	Specialty Leather			
211.6190	Specialty Soybean Crushing Source			
211.6210	Splash Loading			
211.6230	Stack			
211.6250	Stain Coating			
211.6270	Standard Conditions			
211.6290	Standard Cubic Foot (scf)			
211.6310	Start-Up			
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211.6330	Stationary Emission Source				
211.6350	Stationary Emission Unit				
211.6355	Stationary Gas Turbine				
211.6360	Stationary Reciprocating Internal Combustion Engine				
211.6370	Stationary Source				
211.6390	Stationary Storage Tank				
211.6400	Stencil Coat				
211.6405	Sterilization Indicating Ink				
211.6410	Storage Tank or Storage Vessel				
211.6420	Strippable Spray Booth Coating				
211.6425	Stripping Stripping				
211.6427	Structural Glazing				
211.6430	Styrene Devolatilizer Unit				
211.6450	Styrene Recovery Unit				
211.6460	Subfloor				
211.6470	Submerged Loading Pipe				
211.6490	Substrate				
211.6510	Sulfuric Acid Mist				
211.6530	Surface Condenser				
211.6535	Surface Preparation Surface Preparation Materials				
211.6540	Surface Preparation Materials				
211.6550	Synthetic Organic Chemical or Polymer Manufacturing Plant				
211.6570	Tablet Coating Operation				
211.6580	Texture Coat				
211.6585	Thin Metal Laminating Adhesive				
211.6587	Thin Particleboard				
211.6590	Thirty-Day Rolling Average				
211.6610	Three-Piece Can				
211.6620	Three or Four Stage Coating System				
211.6630	Through-the-Valve Fill				
211.6635	Tileboard				
211.6640	Tire Repair				
211.6650	Tooling Resin				
211.6670	Topcoat				
211.6690	Topcoat Operation				
211.6695	Topcoat System				
211.6710	Touch-Up				
211.6720	Touch-Up Coating				
211.6730	Transfer Efficiency				
211.6740	Translucent Coating				
211.6750	Tread End Cementing				
211.6770	True Vapor Pressure				
211.6780	Trunk Interior Coating				
211.6790	Turnaround				
211.6810	Two-Piece Can				
211.6825	Underbody Coating				
_11.0020	onational comme				

211.6830	Under-the-Cup Fill			
211.6850	Undertread Cementing			
211.6860	Uniform Finish Blender			
211.6870	Unregulated Safety Relief Valve			
211.6880	Vacuum Metallizing			
211.6885	Vacuum Metalizing Coating			
211.6890	Vacuum Producing System			
211.6910	Vacuum Service			
211.6930	Valves Not Externally Regulated			
211.6950	Vapor Balance System			
211.6970	Vapor Collection System			
211.6990	Vapor Control System			
211.7010	Vapor-Mounted Primary Seal			
211.7030	Vapor Recovery System			
211.7050	Vapor-Suppressed Polyester Resin			
211.7070	Vinyl Coating			
211.7090	Vinyl Coating Line			
211.7110	Volatile Organic Liquid (VOL)			
211.7130	Volatile Organic Material Content (VOMC)			
211.7150	Volatile Organic Material (VOM) or Volatile Organic Compound (VOC)			
211.7170	Volatile Petroleum Liquid			
211.7190	Wash Coat			
211.7200	Washoff Operations			
211.7210	Wastewater (Oil/Water) Separator			
211.7220	Waterproof Resorcinol Glue			
211.7230	Weak Nitric Acid Manufacturing Process			
211.7240	Weatherstrip Adhesive			
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			
211.7400	Yeast Percentage			
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211.APPENDIX A Rule into Section Table 211.APPENDIX B Section into Rule Table

AUTHORITY: Implementing Sections 9, 9.1, 9.9 and 10 and authorized by Sections 27 of the Environmental Protection Act [415 ILCS 5/9, 9.1, 9.9, 10, and 27].

SOURCE: Adopted as Chapter 2: Air Pollution, Rule 201: Definitions, R71-23, 4 PCB 191, filed and effective April 14, 1972; amended in R74-2 and R75-5, 32 PCB 295, at 3 Ill. Reg. 5, p. 777, effective February 3, 1979; amended in R78-3 and 4, 35 PCB 75 and 243, at 3 Ill. Reg. 30, p. 124, effective July 28, 1979; amended in R80-5, at 7 Ill. Reg. 1244, effective January 21, 1983; codified at 7 Ill. Reg. 13590; amended in R82-1 (Docket A) at 10 Ill. Reg. 12624, effective July 7, 1986; amended in R85-21(A) at 11 Ill. Reg. 11747, effective June 29, 1987; amended in

R86-34 at 11 Ill. Reg. 12267, effective July 10, 1987; amended in R86-39 at 11 Ill. Reg. 20804, effective December 14, 1987; amended in R82-14 and R86-37 at 12 III. 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 III. 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 III. 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 III. 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 R94-21, R94-31 and R94-32 at 19 Ill. Reg. 6823, effective May 9, 1995; amended in R94-33 at 19 Ill. Reg. 7344, effective May 22, 1995; amended in R95-2 at 19 Ill. Reg. 11066, effective July 12, 1995; amended in R95-16 at 19 Ill. Reg. 15176, effective October 19, 1995; amended in R96-5 at 20 Ill. Reg. 7590, effective May 22, 1996; amended in R96-16 at 21 Ill. Reg. 2641, effective February 7, 1997; amended in R97-17 at 21 Ill. Reg. 6489, effective May 16, 1997; amended in R97-24 at 21 Ill. Reg. 7695, effective June 9, 1997; amended in R96-17 at 21 Ill. Reg. 7856, effective June 17, 1997; amended in R97-31 at 22 III. Reg. 3497, effective February 2, 1998; amended in R98-17 at 22 III. Reg. 11405, effective June 22, 1998; amended in R01-9 at 25 Ill. Reg. 108, effective December 26, 2000; amended in R01-11 at 25 Ill. Reg. 4582, effective March 15, 2001; amended in R01-17 at 25 Ill. Reg. 5900, effective April 17, 2001; amended in R05-16 at 29 Ill. Reg. 8181, effective May 23, 2005; amended in R05-11 at 29 Ill. Reg. 8892, effective June 13, 2005; amended in R04-12/20 at 30 Ill. Reg. 9654, effective May 15, 2006; amended in R07-18 at 31 Ill. Reg. 14254, effective September 25, 2007; amended in R08-6 at 32 III. Reg. 1387, effective January 16, 2008; amended in R07-19 at 33 Ill. Reg. 11982, effective August 6, 2009; amended in R08-19 at 33 Ill. Reg. 13326, effective August 31, 2009; amended in R10-7 at 34 Ill. Reg. 1391, effective January 11, 2010; amended in R10-8 at 34 Ill. Reg. 9069, effective June 25, 2010; amended in R10-20 at 34 III. Reg. 14119, effective September 14, 2010; amended in R11-23 at 35 Ill. Reg. 13451, effective July 27, 2011; amended in R12-24 at 37 Ill. Reg. 1662, effective January 28, 2013; amended in R13-1 at 37 Ill. Reg. 1913, effective February 4, 2013; amended in R14-7 at 37 Ill. Reg. 19824, effective November 27, 2013; amended in R14-17 at 38 Ill. Reg. _____, effective _____

Section 211.7150 Volatile Organic Material (VOM) or Volatile Organic Compound (VOC)

"Volatile organic material" (also "VOM") or "volatile organic compound" (also "VOC") means any compound of carbon, excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate, that participates in atmospheric photochemical reactions.

a) This definition of VOM includes any organic compound that participates in atmospheric photochemical reactions, other than the compounds listed in this

subsection (a). USEPA has determined that the compounds listed in this subsection (a) have negligible photochemical reactivity. USEPA has excluded the listed negligibly-reactive compounds from the definition of VOM for purposes of VOM limitations or VOM content requirements. However, USEPA has required that certain of these compounds be considered VOM for purposes of recordkeeping, emissions reporting, and inventory requirements, as described in subsection (e) of this Section.

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Acetone (2-propanone or dimethylketone)
Bis(difluoromethoxy)(difluoro)methane (CHF<sub>2</sub>OCF<sub>2</sub>OCHF<sub>2</sub> or HFE-
       236cal2)
1,2-Bis(difluoromethoxy)-1,1,2,2-tetrafluoroethane
       (CHF<sub>2</sub>OCF<sub>2</sub>CF<sub>2</sub>OCHF<sub>2</sub> or HFE-338pcc13)
tertiary-Butyl acetate
1-Chloro-1,1-difluoroethane (HCFC-142b)
Chlorodifluoromethane (CFC-22)
1-Chloro-1-fluoroethane (HCFC-151a)
Chlorofluoromethane (HCFC-31)
Chloropentafluoroethane (CFC-115)
2-Chloro-1,1,1,2-tetrafluoroethane (HCFC-124)
trans-1-chloro-3,3,3-trifluoroprop-1-ene
1,1,1,2,2,3,4,5,5,5-Decafluoro-3-methoxy-4-trifluoromethyl-pentane
       (HFE-7300, L-14787, or C_2F_5CF(OCH_3)CF(CF_3)_2)
1,1,1,2,3,4,4,5,5,5-Decafluoropentane (HFC 43-10mee)
Dichlorodifluoromethane (CFC-12)
1,1-Dichloro-1-fluoroethane (HCFC-141b)
3,3-Dichloro-1,1,1,2,2-pentafluoropropane (HCFC-225ca)
1,3-Dichloro-1,1,2,2,3-pentafluoropropane (HCFC-225cb)
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC-114)
1,2-Dichloro-1,1,2-trifluoroethane (HCFC-123a)
1.1-Difluoroethane (HFC-152a)
Difluoromethane (HFC-32)
(Difloromethoxy)(difluoro)methane (CHF<sub>2</sub>OCHF<sub>2</sub> or HFE-134)
1-(Difloromethoxy)-2-[(difluoromethoxy)(difluoro)methoxy]-1,1,2,2-
       tetrafluoroethane (CHF<sub>2</sub>OCF<sub>2</sub>OCF<sub>2</sub>CF<sub>2</sub>OCHF<sub>2</sub> or HFE-43-10pccc)
2-(Difluoromethoxymethyl)-1,1,1,2,3,3,3-heptafluoropropane
       ((CF_3)_2CFCF_2OCH_3)
Dimethyl carbonate
Ethane
2-(Ethoxydifluoromethyl)-1,1,1,2,3,3,3-heptafluoropropane
       ((CF_3)_2CFCF_2OC_2H_5)
3-Ethoxy-1,1,1,2,3,4,4,5,5,6,6,6-dodecafluoro-2-(trifluoromethyl)hexane
       (HFE-7500)
1-Ethoxy-1,1,2,2,3,3,4,4,4-nonafluorobutane (C_4F_9OC_2H_5 or HFE-7200)
Ethylfluoride (HFC-161)
1,1,1,2,2,3,3-Heptafluoro-3-methoxypropane (n-C<sub>3</sub>F<sub>7</sub>OCH<sub>3</sub> or HFE-7000)
1,1,1,2,3,3,3-Heptafluoropropane (HFC-227ea)
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1,1,1,2,3,3-Hexafluoropropane (HFC-236ea)

1,1,1,3,3,3-Hexafluoropropane (HFC-236fa)

Methane

Methyl acetate

Methylene chloride (dichloromethane)

Methyl formate (CHOOCH₃)

1,1,1,2,2,3,3,4,4-Nonafluoro-4-methoxybutane ($C_4F_9OCH_3$ or HFE-7100)

Parachlorobenzotrifluoride (PCBTF)

1,1,1,3,3-Pentafluorobutane (HFC-365mfc)

Pentafluoroethane (HFC-125)

1,1,2,2,3-Pentafluoropropane (HFC-245ca)

1,1,2,3,3-Pentafluoropropane (HFC-245ea)

1,1,1,2,3-Pentafluoropropane (HFC-245eb)

1,1,1,3,3-Pentafluoropropane (HFC-245fa)

Perchloroethylene (tetrachloroethylene)

Perfluorocarbon compounds that fall into the following classes:

Cyclic, branched, or linear, completely fluorinated alkanes

Cyclic, branched, or linear, completely fluorinated ethers with no unsaturations

Cyclic, branched, or linear, completely fluorinated tertiary amines with no unsaturations

Sulfur-containing perfluorocarbons with no unsaturations and with sulfur bonds only to carbon and fluorine

Propylene carbonate (4-methyl-1,3-dioxolan-2-one)

Siloxanes: cyclic, branched, or linear completely-methylated

1,1,2,2-Tetrafluoroethane (HFC-134)

1,1,1,2-Tetrafluoroethane (HFC-134a)

trans-1,3,3,3-Tetrafluoropropene (HFO-1234ze)

2,3,3,3-Tetrafluoropropene (HFO-1234yf)

1,1,1-Trichloroethane (methyl chloroform)

Trichlorofluoromethane (CFC-11)

1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)

1,1,1-Trifluoro-2,2-dichloroethane (HCFC-123)

1,1,1-Trifluoroethane (HFC-143a)

Trifluoromethane (HFC-23)

b) For purposes of determining VOM emissions and compliance with emissions limits, VOM will be measured by the test methods in the approved implementation plan or 40 CFR 60, appendix A, incorporated by reference at 35 Ill. Adm. Code 215.105, 218.112, and 219.112, as applicable, or by source-specific test methods that have been established pursuant to a permit issued under a program approved or promulgated under Title V of the Clean Air Act; under 40 CFR 51, subpart I or appendix S, incorporated by reference at 35 Ill. Adm. Code 218.112 and 219.112; or under 40 CFR 52.21, incorporated by reference at 35 Ill. Adm. Code 218.112 and 219.112, as applicable. Where such a method also measures compounds with negligible photochemical reactivity, these negligibly-

- reactive compounds may be excluded as VOM if the amount of such compounds is accurately quantified and the exclusion is approved by the Agency.
- c) As a precondition to excluding these negligibly-reactive compounds as VOM, or at any time thereafter, the Agency may require an owner or operator to provide monitoring or testing methods and results demonstrating, to the satisfaction of the Agency, the amount of negligibly-reactive compounds in the source's emissions.
- d) The USEPA will not be bound by any State determination as to appropriate methods for testing or monitoring negligibly-reactive compounds if such determination is not reflected in any of the test methods in subsection (b) above of this Section.
- e) The following compound is VOM for the purposes of all recordkeeping, emissions reporting, photochemical dispersion modeling and inventory requirements that apply to VOM, and it must be uniquely identified in emission reports, but it is not VOM for the purposes of VOM emissions limitations or VOM content requirements: t-butyl acetate.

(Source:	Amended at 38 Ill. Reg.	. effective)

IT IS SO ORDERED.

I, John T. Therriault, Clerk of the Illinois Pollution Control Board, certify that the Board adopted the above opinion and order on June 5, 2014, by a vote of 4-0.

John T. Therriault, Clerk Illinois Pollution Control Board