

ILLINOIS POLLUTION CONTROL BOARD

October 19, 2017

IN THE MATTER OF:)
DEFINITION OF VOM UPDATE, USEPA) R17-11
REGULATIONS (July 1, 2016 through) (Identical-in-Substance Rulemaking - Air)
December 31, 2016))

Adopted Rule. Final Order.

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

During the update period of this docket, on August 1, 2016, the United States Environmental Protection Agency (USEPA) added a single exclusion from the federal definition of “volatile organic compound” (VOC) codified at 40 C.F.R. § 51.100(s). Accordingly, Section 9.1(e) of the Illinois Environmental Protection Act (Act) requires the Board to expand the exclusion from ozone regulation “due to negligible photochemical reactivity.” 415 ILCS 5/9.1(e) (2016). Section 9.1(e) also requires the Board to use the identical-in-substance procedure of Section 7.2(b) of the Act (415 ILCS 5/7.2(b) (2016)).

The Board today adopts amendments to Illinois’ definition of “volatile organic material” (VOM) (35 Ill. Adm. Code 211.7150) that are identical in substance to the USEPA action. The Board also includes corrections to chemical names in the list of excluded compounds.

The Board will immediately file these final amendments with the Office of the Secretary of State, at which point they will become effective. The adopted amendments will appear in the *Illinois Register*.

SUMMARY OF ADOPTED AMENDMENTS

Federal Amendment Implemented

USEPA took one action that affected the federal definition of VOC during the second half of 2016. The USEPA action requires corresponding amendments to the Illinois definition of VOM.

August 1, 2016 (81 Fed. Reg. 50330)

USEPA added one hydrofluoroether compound to the list of chemical species excluded from the federal definition of VOC. The Board must add this compound to the list of compounds excluded from the definition of VOM in 35 Ill. Adm. Code 211.7150.

Corrections in Response to USEPA Inquiry

Board staff received an e-mail from the Illinois Environmental Protection Agency (Agency) on July 5, 2017 that contained three questions from USEPA Region 5. The questions arose during USEPA’s review of the amendments in Definition of VOM Update, USEPA Amendments (January 1, 2016 through June 30, 2016), R17-2 (Jan. 19, 2017). Board staff

responded to the Agency by e-mail on July 7, 2017, answering each of USEPA's questions. USEPA's questions identified necessary corrections to the R17-2 amendments.

PUBLIC HEARING & RULEMAKING RECORD

The Board proposed amendments for public comment in this docket (R17-11) on July 26, 2016. A Notice of Proposed Amendments appeared in the August 11, 2017 *Illinois Register*, at 41 Ill. Reg. 10397. The Board held a public hearing on September 21, 2017 by videoconference between Chicago and Springfield. Agency representatives attended the hearing. The Board received no testimony at the hearing.

The public comment period ended on September 25, 2017. The Board received comments from the Agency during the comment period:

- PC 1 Illinois Environmental Protection Agency's Comments Regarding the Illinois Pollution Control Board's Identical in Substance Rulemaking," filed September 19, 2017.
- PC 2 E-mail exchange between Annet Godiksen (Assistant Counsel, Division of Legal Counsel) and Michael McCambridge (Board hearing officer) on July 5, 2017 and July 10, 2017, containing USEPA questions on the prior VOM update (R17-2); submitted to the record by the hearing officer on September 21, 2017.

The Board received no further testimony at hearing.

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

The record does not include a copy of the following documents, which are publicly available from other sources:

- *Federal Register* notices;
- Federal statutes and regulations; and
- Illinois statutes and regulations.

For the subjects included in this proceeding, the Board finds that these measures will satisfy the federal requirements for State Implementation Plan (SIP revision) in 33 U.S.C. § 7410(a) (2015) and 40 C.F.R. § 51.102.

DISCUSSION

Federal Action in This Rulemaking

Above, the Board summarized the federal action taken during the second half of 2016. The USEPA action requires a corresponding amendment to the Illinois regulations in this proceeding. The discussion below considers the Board action.

Addition of One Hydrofluoroether to the List of Compounds Excluded from the Definition of VOM

USEPA added 1,1,2,2-tetra-fluoro-1-(2,2,2-trifluoro-ethoxy)ethane (also called HFE-347pcf2; Chemical Abstract Service (CAS) No. 406-78-0) to the list of chemical compounds excluded from the federal definition of VOC. Excluded from the definition of VOC, emissions of HFE-347pcf2 are excluded from regulatory control as a precursor of tropospheric ozone (smog).

USEPA excluded HFE-347pcf2 in response to a 2007 petition from industry. Uses for HFE-347pcf2 include precision cleaning agent for removal of oil, flux, and fingerprints from, among other things, medical devices, artificial implants, military and aerospace items, electric components and circuit boards, optics, jewelry, ball bearings, film, and metal components. USEPA stated that HFE-347pcf2 has a maximum incremental reactivity and reaction rate with hydroxide radical (K_{OH}) that are much lower than that of ethane, USEPA's benchmark compound for defining "negligible" reactivity. 81 Fed. Reg. at 50332-33.

USEPA further observed that HFE-347pcf2 is unlikely to participate in stratospheric ozone depletion; using HFE-347pcf2 for cleaning will pose no more threat to human health and the environment than does using current substitutes; HFE-347pcf2 is not a hazardous air pollutant; and the global warming potential of HFE-347pcf2 (889, with an estimated atmospheric lifetime of 6.0 years) is comparable to that of substitutes for the same uses. *Id.* at 50332-33.

The name of HFE-347pcf2 accepted by the International Union of Pure and Applied Chemistry (IUPAC) is 1,1,2,2-tetra-fluoro-1-(2,2,2-trifluoro-ethoxy)ethane, the name used by USEPA, with the exception of three USEPA errors in the format of the name. *Compare* 40 C.F.R. § 51.100(s) (2016), as amended at 81 Fed. Reg. at 50335-36 *with* chem.nlm.nih.gov/chemidplus/rn/406-78-0 (accessed July 18, 2017).

To correspond with the USEPA amendment to 40 C.F.R. § 51.100(s), the Board adds 1,1,2,2-tetrafluoro-1-(2,2,2-trifluoroethoxy)ethane to the list of compounds excluded from the definition of VOM in 35 Ill. Adm. Code 211.7150(a). The Board corrects the USEPA errors in the format of the chemical name. The Board further parenthetically adds the alternative designation, HFE-347pcf2, and CAS number to the listing. The Board's addition of alternative identifiers and corrections to the format are listed in Table 1 of the Identical-in-Substance Rulemaking Addendum (Final) (IIS-RA(F)), which is part of the record for this proceeding. The IIS-RA(F) is available on the Board's website.

The Agency (PC 1) requested that the Board "adopt language that mirrors the text of USEPA's regulations as closely as possible . . ." Specifically, the Agency recommended that the Board eliminate CAS numbers and IUPAC names from the VOM definition. PC 1 at 1. The Agency states, "it is likely that USEPA concerns and questions will continue to arise each time the Board alters the federal provisions . . ." *Id.*

The Board declines to omit CAS numbers or IUPAC names from the Illinois definition of VOM. Their inclusion clarifies the rule, facilitating implementation and enforcement. In the R17-2 update, the Board stated the reasons for using IUPAC names and CAS numbers to identify

excluded compounds, where those identifiers are available. *See* Definition of VOM Update, USEPA Regulations (January 1, 2016 through June 30, 2016), R17-2, slip op. at 4-5 (Jan. 19, 2017). The Board also gave examples of ambiguities in the chemical names “chlorodifluoroethane” and “dichlorofluoroethane.” *Id.* The Board refers attention to that discussion, rather than repeat it.

The Agency does not describe any way in which adding IUPAC names and CAS numbers results in a rule that fails to be “identical in substance” to the corresponding federal rule, 40 C.F.R. § 51.100(s). The Board finds that these additions are “technical changes that in no way change the scope or meaning of any portion of the [USEPA] rules.” 415 ILCS 5/7.2(a) (2016). To facilitate USEPA review of the Illinois definition of VOM, the IIS-RA(F) for this proceeding includes a table that correlates USEPA chemical identifiers, the CAS registry number, and IUPAC name for each excluded compound. Table 5 lists the excluded compounds in the order listed in 40 C.F.R. § 51.100(s).

Corrections Based on USEPA Questions

After the Board adopted the prior VOM update (R17-2), the Agency submitted USEPA questions (PC 2) about the Illinois VOM definition, some of which are addressed above.

In addition, the Board makes two corrections. The Board removes text that was inadvertently not removed in R17-2. The Board also corrects the CAS registry number for (1E)-1-Chloro-3,3,3-trifluoroprop-1-ene. The corrections are listed in Table 2 of the IIS-RA(F).

Because of the corrections, the Board includes a corrected version of the list of excluded compounds as Table 3 in the IIS-RA(F). Table 3 includes HFE-347pcf2, which is added by this proceeding, docket R17-11. The list appeared in the final identical-in-substance rulemaking addendum (IIS-RA(F)) in docket R17-2, including the error in the CAS number of (1E)-1-Chloro-3,3,3-trifluoroprop-1-ene. That IIS-RA(F) also did not include the five classes of compounds excluded from the definition of VOM because, as non-specific compounds, they do not have CAS registry numbers. The Board adds the five classes of compounds to the list.

ORDER

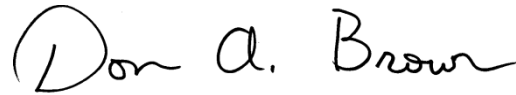
The Board adopts the appended amendments to the Illinois VOM definition at 35 Ill. Adm. Code 211.7150. The Board directs the Clerk to file the amendments with the Office of the Secretary of State and cause them to be published in the *Illinois Register*.

IT IS SO ORDERED.

Section 41(a) of the Environmental Protection Act provides that final Board orders may be appealed directly to the Illinois Appellate Court within 35 days after the Board serves the order. 415 ILCS 5/41(a) (2016); *see also* 35 Ill. Adm. Code 101.300(d)(2), 101.906, 102.706. Illinois Supreme Court Rule 335 establishes filing requirements that apply when the Illinois Appellate Court, by statute, directly reviews administrative orders. 172 Ill. 2d R. 335. The Board’s procedural rules provide that motions for the Board to reconsider or modify its final orders may be filed with the Board within 35 days after the order is received. 35 Ill. Adm. Code 101.520; *see also* 35 Ill. Adm. Code 101.902, 102.700, 102.702. Filing a motion asking that the

Board reconsider this final order is not a prerequisite to appealing the order. 35 Ill. Adm. Code 101.902.

I, Don A. Brown, Clerk of the Illinois Pollution Control Board, certify that the Board adopted the above opinion and order on October 19, 2017, by a vote of 5-0.

A handwritten signature in black ink that reads "Don A. Brown". The signature is written in a cursive style with a large, circular initial "D".

Don A. Brown, Clerk
Illinois Pollution Control Board

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

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211.492	Antifoulant Coating

211.493 Antifouling Sealer/Tie Coat
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211.550 As Applied
211.560 As-Applied Fountain Solution
211.570 Asphalt
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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
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211.710 Bead-Dipping
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211.850 Can Coating
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211.890 Capture
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211.954 Cavity Wax
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211.1120	Clinker
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211.1570	Crude Oil
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211.1610	Crushing
211.1630	Custody Transfer
211.1650	Cutback Asphalt
211.1655	Cyanoacrylate Adhesive
211.1670	Daily-Weighted Average VOM Content
211.1690	Day
211.1700	Deadener
211.1710	Degreaser
211.1730	Delivery Vessel
211.1740	Diesel Engine
211.1745	Digital Printing
211.1750	Dip Coating
211.1770	Distillate Fuel Oil
211.1780	Distillation Unit
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
211.1872	Ejection Cartridge Sealant
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
211.2365	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
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
211.3090	Indirect Heat Transfer
211.3095	Indoor Floor Covering Installation Adhesive
211.3100	Industrial Boiler
211.3110	Ink
211.3120	In-Line Repair
211.3130	In-Process Tank
211.3150	In-Situ Sampling Systems
211.3170	Interior Body Spray Coat
211.3190	Internal-Floating Roof
211.3210	Internal Transferring Area
211.3215	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	Low-NOx Burner
211.3490	Low Solvent 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
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
211.4670	Pharmaceutical Coating Operation
211.4690	Photochemically Reactive Material
211.4710	Pigmented Coatings
211.4720	Pipeline Natural Gas
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
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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
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
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
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
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
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
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

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 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 R94-21, 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 Ill. Reg. 3497, effective February 2, 1998; amended in R98-17 at 22 Ill. 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 Ill. 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 Ill. 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 R14-16 at 38 Ill. Reg. 12876, effective June 9, 2014; amended in R15-5 at 39 Ill. Reg. 5410, effective March 24, 2015; amended in R17-2 at 41 Ill. Reg. 1096, effective January 23, 2017; amended in R17-9 at 41 Ill. Reg. 4173, effective March 24, 2017; amended in R17-11 at 41 Ill. Reg. _____, effective _____.

SUBPART B: DEFINITIONS

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.~~

2-Amino-2-methylpropan-1-ol

(CAS No. 124-68-5)

Bis(difluoromethoxy)difluoromethane

(HFE-236cal2, CAS No. 78522-47-1)

1,2-Bis(difluoromethoxy)-1,1,2,2-tetrafluoroethane

(HFE-338pcc13, CAS No. 188690-78-0)

tertiary-Butyl acetate

(1,1-dimethylethyl acetic acid ester, CAS No. 540-88-5)

1-Chloro-1,1-difluoroethane

(HCFC-142b, CAS No. 75-68-3)
 Chlorodifluoromethane
 (CFC-22, CAS No. 75-45-6)
 1-Chloro-1-fluoroethane
 (HCFC-151a, CAS No. 1615-75-4)
 Chlorofluoromethane
 (HCFC-31, CAS No. 593-70-4)
 Chloropentafluoroethane
 (CFC-115, CAS No. 76-15-3)
 2-Chloro-1,1,1,2-tetrafluoroethane
 (HCFC-124, CAS No. 2837-89-0)
 1-Chloro-4-(trifluoromethyl)benzene
 (parachlorobenzotrifluoride (PCBTF), CAS No. 98-56-6)
 (1E)-1-Chloro-3,3,3-trifluoroprop-1-ene
 (trans-1-chloro-3,3,3-trifluoroprop-1-ene, CAS No. ~~29118-24-9~~
 102687-65-0)
 1,1,1,2,2,3,4,5,5,5-Decafluoro-3-methoxy-4-trifluoromethylpentane
 (HFE-7300, CAS No. 132182-92-4)
 1,1,1,2,3,4,4,5,5,5-Decafluoropentane
 (HFC 43-10mee, CAS No. 138495-42-8)
 Dichlorodifluoromethane
 (CFC-12, CAS No. 75-71-8)
 1,1-Dichloro-1-fluoroethane
 (HCFC-141b, CAS No. 1717-00-6)
 Dichloromethane
 (methylene chloride, CAS No. 75-09-2)
 3,3-Dichloro-1,1,1,2,2-pentafluoropropane
 (HCFC-225ca, CAS No. 422-56-0)
 1,3-Dichloro-1,1,2,2,3-pentafluoropropane
 (HCFC-225cb, CAS No. 507-55-1)
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 (CFC-114, CAS No. 76-14-2)
 1,1-Dichloro-2,2,2-trifluoroethane
 (HCFC-123, CAS No. 306-83-2)
 1,2-Dichloro-1,1,2-trifluoroethane
 (HCFC-123a, CAS No. 354-23-4)
 1,1-Difluoroethane
 (HFC-152a, CAS No. 75-37-6)
 Difluoromethane
 (HFC-32, CAS No. 75-10-5)
 (Difluoromethoxy)difluoromethane
 (HFE-134, CAS No. 1691-17-4)
 1-(Difluoromethoxy)-2-[(difluoromethoxy)(difluoro)methoxy]-1,1,2,2-
 tetrafluoroethane
 (HFE-43-10pccc124, CAS No. 188690-77-9)
 2-(Difluoromethoxymethyl)-1,1,1,2,3,3,3-heptafluoropropane

(CAS No. 163702-08-7)
Dimethyl carbonate
(CAS No. 616-38-6)
Ethane
(CAS No. 74-84-0)
2-(Ethoxydifluoromethyl)-1,1,1,2,3,3,3-heptafluoropropane
(CAS No. 163702-06-5)
3-Ethoxy-1,1,1,2,3,4,4,5,5,6,6,6-dodecafluoro-2-(trifluoromethyl)hexane
(HFE-7500, CAS No. 297730-93-9)
1-Ethoxy-1,1,2,2,3,3,4,4,4-nonafluorobutane
(HFE-7200, CAS No. 163702-05-4)
Ethylfluoride
(HFC-161, CAS No. 353-36-6)
1,1,1,2,2,3,3-Heptafluoro-3-methoxypropane
(HFE-7000, CAS No. 375-03-1)
1,1,1,2,3,3,3-Heptafluoropropane
(HFC-227ea, CAS No. 431-89-0)
1,1,1,2,3,3-Hexafluoropropane
(HFC-236ea, CAS No. 431-63-0)
1,1,1,3,3,3-Hexafluoropropane
(HFC-236fa, CAS No. 690-39-1)
Methane
(CAS No. 74-82-8)
Methyl acetate
(methyl ethanoate, CAS No. 79-20-9)
4-Methyl-1,3-dioxolan-2-one
(propylene carbonate, CAS No. 108-32-7)
Methyl formate
(methyl methanoate, CAS No. 107-31-3)
1,1,1,2,2,3,3,4,4-Nonafluoro-4-methoxybutane
(HFE-7100, CAS No. 163702-07-6)
1,1,1,3,3-Pentafluorobutane
(HFC-365mfc, CAS No. 406-58-6)
Pentafluoroethane
(HFC-125, CAS No. 354-33-6)
1,1,2,2,3-Pentafluoropropane
(HFC-245ca, CAS No. 679-86-7)
1,1,2,3,3-Pentafluoropropane
(HFC-245ea, CAS No. 24270-66-4)
1,1,1,2,3-Pentafluoropropane
(HFC-245eb, CAS No. 431-31-2)
1,1,1,3,3-Pentafluoropropane
(HFC-245fa, CAS No. 460-73-1)
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

Propan-2-one

(acetone or dimethylketone, CAS No. 67-64-1)

Siloxanes: cyclic, branched, or linear completely-methylated

Tetrachloroethene

(perchloroethylene, CAS No. 127-18-4)

1,1,2,2-Tetrafluoroethane

(HFC-134, CAS No. 359-35-3)

1,1,1,2-Tetrafluoroethane

(HFC-134a, CAS No. 811-97-2)

(1E)-1,3,3,3-Tetrafluoropropene

(trans-1,3,3,3-tetrafluoropropene, HFO-1234ze, CAS No. 29118-24-9)

2,3,3,3-Tetrafluoroprop-1-ene

(HFO-1234yf, CAS No. 754-12-1)

1,1,1-Trichloroethane

(methyl chloroform, CAS No. 71-55-6)

1,1,2,2-tetrafluoro-1-(2,2,2-trifluoroethoxy)ethane

(HFE-347pcf2, CAS No. 406-78-0)

Trichlorofluoromethane

(CFC-11, CAS No. 75-69-4)

1,1,2-Trichloro-1,2,2-trifluoroethane

(CFC-113, CAS No. 76-13-1)

1,1,1-Trifluoroethane

(HFC-143a, CAS No. 420-46-2)

Trifluoromethane

(HFC-23, CAS No. 75-46-7)

- 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).

(Source: Amended at 41 Ill. Reg. _____, effective _____)