

ILLINOIS POLLUTION CONTROL BOARD

January 19, 2017

IN THE MATTER OF: )  
DEFINITION OF VOM UPDATE, USEPA ) R17-2  
REGULATIONS (January 1, 2016 through ) (Identical-in-Substance Rulemaking - Air)  
June 30, 2016) )

Adopted Rule. Final Order.

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

The United States Environmental Protection Agency (USEPA) expanded a single exclusion from the federal definition of “volatile organic compound” (VOC) codified at 40 C.F.R. 51.100(s). Section 9.1(e) of the Illinois Environmental Protection Act (Act) (415 ILCS 5/9.1(e) (2014)) requires the Board to likewise expand the exclusion from ozone regulation “due to negligible photochemical reactivity.” 415 ILCS 5/9.1(e) (2014). In addition, Section 9.1(e) of the Act requires the Board to use the identical-in-substance procedure of Section 7.2(b) of the Act (415 ILCS 5/7.2(b) (2014)).

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

The Board will file the adopted amendments with the Office of the Secretary of State and have them published in the *Illinois Register*.

The Board expects to file the adopted rules no later than the statutory due date of February 25, 2017.

**SUMMARY OF ADOPTED AMENDMENTS**

**Federal Regulations Implemented**

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

**February 25, 2016 (81 Fed. Reg. 9339)**

USEPA revised the existing exclusion of one alkane-carboxylic acid ester compound in the list of chemical species excluded from the federal definition of VOC.

**PUBLIC COMMENTS AND PUBLIC HEARING**

The Board adopted a proposal for public comment in this matter on October 27, 2016. A notice of Proposed Amendment appeared in the November 14, 2016 issue of the *Illinois Register*, at 40 Ill. Reg. 15294. The Board held a public hearing on December 7, 2016 by videoconference

between Chicago and Springfield for the purpose of satisfying the federal public hearing requirement for State Implementation Plan revisions. See 42 U.S.C. § 7410(a) (2014). A Notice of Public Information on Proposed Amendment also appeared in the October 28, 2016 issue of the *Register*, at 40 Ill. Reg. 14784. The Notice of Public Information provided public notice of the December 7, 2016 hearing.

The Board invited public comment on specific aspects of the proposed amendments:

1. Should the Board revise the listing to include the Chemical Abstract Service (CAS) number for each individual chemical compound on the list?
2. Should the Board revise the listing to include the International Union of Pure and Applied Chemistry (IUPAC) name for each individual chemical compound on the list?

The public comment period ended on December 29, 2016. No person presented testimony at the public hearing. The Board received no comments on the proposed amendment during the public comment period. Rather, the Board received a document entitled “JCAR’s First Notice Version for use in creating Second Notice Changes” for Parts 211. The Board revised the text of the proposed amendments in response to the JCAR document. The Board added the document into the record of this proceeding.

The Board assembled an IIS Rulemaking Addendum to the Final Opinion and Order of the Board (IIS-RA (F)) that fully lists the several revisions made by the Board in the course of this proceeding. The lists include differences between the text of the USEPA amendments and the Board’s language, amendments that did not derive from USEPA amendments, differences between the proposed and adopted amendments, and suggestions for changes not made by the Board in this rulemaking. The content of the IIS-RA(F) is explained towards the end of this opinion and order.

## **DISCUSSION**

### **Federal Actions in This Rulemaking**

The USEPA action requiring amendments to the Illinois regulations are summarized below.

#### **February 25, 2016 (81 Fed. Reg. 9339)**

USEPA revised the existing exclusion of *tertiary*-butyl acetate (*t*-Bac) in the list of chemical species excluded from the federal definition of VOC. Excluded from the definition of VOC, emissions of *t*-BAC are excluded from regulatory control as a precursor of tropospheric ozone (smog).

USEPA excluded *t*-BAC in 2004.<sup>1</sup> That exclusion, however, related only to controlling emissions of *t*-BAC. *t*-BAC remained a VOC for the purposes of recordkeeping, emissions reporting, photochemical dispersion modeling, and inventory requirements that apply to VOC. See 81 Fed. Reg. at 9340.

USEPA removed paragraph (s)(5) from the federal definition of VOC on February 25, 2016. See 40 C.F.R. 51.100(s) (2016). USEPA added *t*-BAC to the list in paragraph (s)(1). This removal of the recordkeeping and reporting requirements for *t*-BAC completed the exclusion of *t*-BAC from the definition of VOC. *t*-BAC is now excluded from all regulation as a precursor of tropospheric ozone.

The International Union of Pure and Applied Chemistry (IUPAC)-accepted names of *t*-BAC are as follows:

*tert*-butyl acetate  
*tert*-butyl acetic acid ester  
 1,1-dimethylethyl acetic acid ester

Further identifying information for the excluded compound is as follows:

CAS no.: 540-88-5  
 chemical formula: CH<sub>3</sub>COOC(CH<sub>3</sub>)<sub>3</sub>  
 molecular formula: C<sub>6</sub>H<sub>12</sub>O<sub>2</sub>  
 alternative common name: *t*-butyl acetate; *t*-BAC

In an unrelated amendment, USEPA removed of the hyphen from between the “methoxy” and “propane” moieties to correct the format of the chemical name “1,1,1,2,2,3,3-heptafluoro-3-methoxypropane.”

**The Present Board Action.** The Board incorporated the USEPA revisions to the exclusion of *t*-BAC into the Illinois definition of VOM with minimal deviation from the federal text. The Board found one minor revision to the federal text necessary. The Board further found errors in the text of 40 C.F.R. 51.100(s).

The Board removed 35 Ill. Adm. 211.7150(e) in its entirety to correspond with USEPA’s removal of corresponding 40 C.F.R. 51.100(s)(5). USEPA added “*t*-butyl acetate” to the list of excluded compounds in 40 C.F.R. 51.100(s)(1). The Board previously added “tertiary-butyl acetate” to the list of excluded compounds in 35 Ill. Adm. Code 211.7150(a) in docket R05-16. Thus, adding *t*-BAC now is not necessary. USEPA, however, alphabetized the *t*-BAC’s position in the federal based on “*tert*.” The Board retains the name “*tert*-butyl acetate,” and the alphabetized position in the list based on “*butyl*,” and the Board added the IUPAC name, “1,1-dimethylethyl acetic acid ester,” in parentheses.

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<sup>1</sup> 69 Fed. Reg. 69298 (Nov. 29, 2004). The Board incorporated the USEPA exclusion into the Illinois definition of VOM in Exemptions from the Definition of VOM, USEPA Amendments (July 1, 2004 through December 31, 2004), R05-16 (May 19, 2005).

The Board removed the last three sentences from 35 Ill. Adm. Code 211.7150(a). The Board added those sentences in response to Agency concerns raised after the initial exclusion of *t*-BAC. The Agency related to the Board that USEPA was concerned over the appearance of *t*-BAC in the list in 35 Ill. Adm. Code 211.7150(a). USEPA saw a potential for confusion that *t*-BAC was totally excluded from the definition of VOM. See Exemptions from the Definition of VOM, USEPA Amendments (January 1, 2007 through June 30, 2007), R08-6 (Jan. 10, 2008) at pp. 3-7.

### **Revisions**

In an identical-in-substance proceeding, the Board must adopt the verbatim text of federal regulations except for (1) changes needed for compliance with the Illinois Administrative Code; (2) technical changes that do not change the scope or meaning of the regulations; and (3) typographical and grammatical errors. In addition, the Board must not adopt USEPA rules that are not applicable to Illinois or “things which are outside the Board’s normal functions.” See 415 ILCS 5/7.2(a), (a)(1), (a)(2), and (a)(7) (2014). Thus, the Board made only minor, non-substantive deviations from the federal text described below.

### **Errors in the Federal Text**

The Board’s review of the text of 40 C.F.R. 51.100(s)(1), as amended by USEPA on February 26, 2016, disclosed nine minor errors in chemical names. The Board previously corrected eight of these errors in 35 Ill. Adm. Code 211.7150(a). The Board now corrects the ninth error derived from the federal text in the listing of “1,1,1,2,2,3,4,5,5,5-decafluoro-3-methoxy-4-trifluoromethylpentane.”

The Identical-in-Substance Rulemaking Addendum (Proposed) (IIS-RA(F)) fully lists the differences between the text of the USEPA amendments and the Board’s language in this rulemaking. The Board included the IIS-RA(F) in the docket for this rulemaking, available on the Board’s website. Table 5 in the IIS-RA(F) for this proceeding lists the federal errors and the Board’s corrections of those errors. Table 2 in the IIS-RA(F) lists the corrections that the Board makes today.

### **Revisions to Chemical Identifiers**

To make the list easier to use, the Board amended the list of excluded compounds to name each excluded compound by its systematic name and registry number, eliminating structural formulae where they appear, and presenting common names parenthetically.

This does not apply to the exclusions listed as classes of chemical compounds. Those exclusions identify so many individual chemical compounds that specific identification is not possible.

Chemical identification can be problematic. Some chemical have several commonly used names, some of which may identify several isomers. Identification of a particular chemical can be difficult. To the extent a chemical name can identify multiple compounds or isomers, it is ambiguous.

Two examples of ambiguous chemical names from the list of excluded compounds were chlorodifluoroethane and dichlorofluoroethane. These were the names that USEPA originally used to identify the excluded compounds. *See* 54 Fed. Reg. 1987, 1988 (Jan. 18, 1989). Each name describes three chemical isomers. USEPA later more specifically named the two chemicals 1,1-dichloro-1-fluoroethane and 1-chloro-1,1-difluoroethane, to each embrace a single isomer. *See* 40 C.F.R. 51.100(s)(1) (1992).

There are several conventions for identifying chemicals with varying precision. For example, acetone is a common name for an excluded compound that also bears the common name dimethylketone. The International Union of Pure and Applied Chemistry (IUPAC) has developed a system of nomenclature for chemical compounds. Acetone bears the IUPAC name propan-2-one. USEPA lists this compound as “acetone” in 40 C.F.R. 51.100(s)(1) (2016). The Board parenthetically added “dimethyl ketone or propan-2-one” in corresponding 35 Ill. Adm. Code 211.7150.

For the purpose of obtaining greater certainty in chemical identification, chemists have developed various non-name identifiers. The identifier of interest to the Board is the Chemical Abstract Service (CAS) number developed by the American Chemical Society.<sup>2</sup> CAS numbers are in widespread use, and a single CAS number identifies only one chemical isomer.<sup>3</sup>

Returning to the examples of chlorodifluoroethane and dichlorofluoroethane, the IUPAC names of the isomers and their CAS numbers are as follows:

Chlorodifluoroethane isomers:

1-chloro-1,1-difluoroethane (CAS no. 75-68-3)—the excluded isomer  
1-chloro-1,2-difluoroethane (CAS no. 338-64-7)  
1-chloro-2,2-difluoroethane (CAS no. 338-65-8)  
chlorodifluoroethane mixed isomers (CAS no. 25497-29-4)

Dichlorofluoroethane isomers:

1,1-dichloro-1-fluoroethane (CAS no. 1717-00-6)—the excluded isomer  
1,1-dichloro-2-fluoroethane (CAS no. 25167-88-8)  
1,2-dichlorofluoroethane (CAS no. 430-57-9)

Table 6 in the IIS-RA(F) for this rulemaking lists the exclusions from the definition of VOM using the designations used by USEPA, listing IUPAC names, CAS numbers, and commonly used informal names for each.

<sup>2</sup> There are several other systematic identifiers. The Food and Drug Administration uses the Unique Ingredient Identifier (UNII). *See* <https://fdasis.nlm.nih.gov/srs/srs.jsp>. There is the Simplified Molecular Input Line-Entry System (SMILES) (*see* <http://www.daylight.com/smiles/index.html>) and IUPAC’s similar International Chemical Identifier (InChI) developed for computerized chemical information. *See* <https://iupac.org/who-we-are/divisions/division-details/inchi/>.

<sup>3</sup> *See* <https://www.cas.org/content/chemical-substances/faqs#q1>.

### **IIS Rulemaking Addendum**

The IIS-RA (F) fully lists the differences between the text of the USEPA amendments and the Board's language in this rulemaking. Entries in the tables briefly explain the differences. The first table lists deviations from the text of federal rules. The second table lists corrections and clarifications to rules not prompted by USEPA amendments, but which the Board finds are needed. The third table lists the differences between the text of the amendments proposed on October 27, 2016 and the text of the amendments adopted today. The fourth table lists suggestions for revisions to the text for the proposed amendments that the Board has not followed.

The Board has included two additional tables in the IIS-RA(F) for this proceeding. Table 5 lists the several errors in chemical names that exist in the USEPA definition of VOM at 40 C.F.R. § 51.100(s). Table 6 lists the excluded chemicals, indicating the identifiers that USEPA used, the IUPAC name, any alternative name(s), and the CAS number for each chemical.

The Board included the IIS-RA (F) in the docket for this rulemaking, available on the Board's website. The Board directs interested persons to the IIS-RA (F) for information about deviations from the federal text and amendments not directly derived from current federal amendments.

### **HISTORICAL SUMMARY OF EXCLUSIONS FROM THE DEFINITION OF VOM AND IMPLEMENTATION IN ILLINOIS**

The Board maintains a historical summary of the State and federal definitions of VOM. That summary traces the evolution of the federal *Recommended Policy on the Control of Volatile Organic Compounds*; USEPA's codification of the policy as 40 C.F.R. 51.100(s); subsequent amendments of 40 C.F.R. 51.100(s); and the several rulemakings that the Board undertook to accommodate federal amendments. The historical summary is available on the Board's website: [www.ipcb.state.il.us](http://www.ipcb.state.il.us).

### **ORDER**

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

IT IS SO ORDERED.

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



Don A. Brown, Assistant 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

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                                      |
| 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                           |

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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



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| 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                              |
| 211.1316 | Combustion Turbine                             |
| 211.1320 | Commence Commercial Operation                  |
| 211.1324 | Commence Operation                             |
| 211.1328 | Common Stack                                   |
| 211.1330 | Complete Combustion                            |
| 211.1350 | Component                                      |
| 211.1370 | Concrete Curing Compounds                      |
| 211.1390 | Concentrated Nitric Acid Manufacturing Process |
| 211.1410 | Condensate                                     |
| 211.1430 | Condensable PM-10                              |
| 211.1435 | Container Glass                                |
| 211.1455 | Contact Adhesive                               |
| 211.1465 | Continuous Automatic Stoking                   |
| 211.1467 | Continuous Coater                              |
| 211.1470 | Continuous Process                             |
| 211.1490 | Control Device                                 |
| 211.1510 | Control Device Efficiency                      |
| 211.1515 | Control Period                                 |
| 211.1520 | Conventional Air Spray                         |
| 211.1530 | Conventional Soybean Crushing Source           |
| 211.1550 | Conveyorized Degreasing                        |
| 211.1560 | Cove Base                                      |
| 211.1565 | Cove Base Installation Adhesive                |

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| 211.1570 | Crude Oil  |
| 211.1590 | Crude Oil Gathering  |
| 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   |

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| 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   |

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| 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                             |

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| 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                                |

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| 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 <sub>x</sub> 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   |

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| 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  |
| 211.4730 | 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   |

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| 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                                       |



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| 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               |

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| 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                                  |

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| 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   |

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| 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. \_\_\_\_\_, 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.

~~Acetone (2-propanone or dimethylketone)~~

~~2-Amino-2-methylpropan-1-ol (CAS No. 124-68-5) 2-Amino-2-methyl-1-propanol~~

~~Bis(difluoromethoxy)(difluoro)methane ( $\text{CHF}_2\text{OCF}_2\text{OCF}_2$  or HFE-236cal2, CAS No. 78522-47-1)~~

~~1,2-Bis(difluoromethoxy)-1,1,2,2-tetrafluoroethane ( $\text{CHF}_2\text{OCF}_2\text{CF}_2\text{OCF}_2$  or 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)  
1,1,1,2,2,3,4,5,5,5-Decafluoro-3-methoxy-4-trifluoromethylpentane  
1,1,1,2,2,3,4,5,5,5-Decafluoro-3-methoxy-4-trifluoromethylpentane (HFE-7300, L-14787, or  $C_2F_5CF(OCH_3)CF(CF_3)_2$ , 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 (difluoro)methane ( $CHF_2OCHF_2$  or HFE-134, CAS No. 1691-17-4)  
 1-(Difluoromethoxy)-2-[(difluoromethoxy)(difluoro)methoxy]-1,1,2,2-tetrafluoroethane ( $CHF_2OCF_2OCF_2CF_2OCHF_2$  or HFE-43-10pccc124, CAS No. 188690-77-9)  
 2-(Difluoromethoxymethyl)-1,1,1,2,3,3,3-heptafluoropropane (CAS No. 163702-08-7( $(CF_3)_2CFCF_2OCH_3$ ))  
 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( $(CF_3)_2CFCF_2OC_2H_5$ ))  
 3-Ethoxy-1,1,1,2,3,4,4,5,5,6,6,6-dodecafluoro-2-(trifluoromethyl)hexane (HFE-7500, CAS No. 297730-93-9)  
 1-Ethoxy-1,1,2,2,3,3,4,4,4-nonafluorobutane ( $C_4F_9OC_2H_5$  or 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 ( $n-C_3F_7OCH_3$  or 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)  
Methylene chloride (dichloromethane)  
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 (C<sub>4</sub>F<sub>9</sub>OCH<sub>3</sub> or HFE-7100, CAS No. 163702-07-6)  
Parachlorobenzotrifluoride (PCBTF)  
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)  
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  
Propan-2-one (acetone or dimethylketone, CAS No. 67-64-1)  
Propylene carbonate (4-methyl-1,3-dioxolan-2-one)  
 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, 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)  
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-Trifluoro-2,2-dichloroethane (HCFC-123)  
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) 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 41 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)