

From: [McGill, Richard](#)
To: [Brown, Don](#)
Subject: PC for R18-21 (Part 215)
Date: Friday, March 23, 2018 12:05:38 PM
Attachments: [35-215.docx](#)
[35-215ProposedChanges.docx](#)

Good afternoon, Mr. Clerk:

Please add this email and two attachments to the R18-21 record as a PC from Jonathan Eastvold of JCAR staff.

Please indicate in the docket entry that this concerns Part 215.

If you have any questions, please let me know. Thank you.

From: Eastvold, Jonathan C. [mailto:JonathanE@ilga.gov]
Sent: Friday, March 23, 2018 11:48 AM
To: McGill, Richard <Richard.McGill@illinois.gov>
Subject: [External] 35 IAC 215

Jonathan C. Eastvold, Ph.D.
Rules Analyst II
Joint Committee on Administrative Rules
Illinois General Assembly

700 Stratton Building
Springfield, IL 62706

Tel.: 217-785-2254
JonathanE@ilga.gov

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<u>Line</u>	<u>Citation</u>	<u>Change</u>
1. 243	TOC: 215.604	"areas" to "Areas"
2. 398	215.102	"Mearusement" to "Measurement"
3. 399	215.102	"d 4457" to "D4457"
4. 404	215.102	"CF" to "CFR"
5. 629	215.108(c)(2)	"(2)" to "2)"
6. 700	215.121	"70 F" to "70 °F"
7. 713	215.121(b)(1)	"294.3° K" to "294.3 K"
8. 714	215.121(b)(1)	"70 F" to "70 °F"
9. 757	215.122(c)	"294.3° K" to "294.3 K"
10. 790	215.123(b)	"pertroleum" to "petroleum"
11. 881	215.124(b)(3)	"294.3° K" to "294.3 K"
12. 1170	215.183(a)(10)	"U.S.C." to "USC"
13. 1215	215.184(a)(1)	"U.S.C." to "USC"
14. 1432	215.206(c)(6)	"exceedence" to "exceedance"
15. 1433	215.206(c)(6)	"exceedence" to "exceedance"
16. 1442	215.206(e)	"flocoating" to "flowcoating"
17. 2083	215.403	"Roto- gravure" to "Rotogravure"
18. 2398	215.427	Delete second "operator"
19. 2482	215.432(c)	"thenext" to "the next"
20. 2574	215.435(b)	"preformed" to "performed"
21. 2811	215.445(b)	"C.F.R." to "CFR"
22. 3049	215.463	"demon strated" to "demonstrated"
23. 3194	215.480(h)(1)(A)	"(A)" to "A)"
24. 3197	215.480(h)(1)(B)	"(B)" to "B)"

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25. 3636 215.521, "Cost effectiveness" "thatstream" to "that stream"
26. 3639 215.521, "Flow" "20 C" to "20 °C"
27. 3651 215.521, Process vent Stream "vent" to "Vent"
28. 3722 215.526(a) "Clear Air Act" to "Clean Air Act"
29. 4102 215.586(a) "tst" to "test"
30. 4102 215.586(a) "the the" to "the"
31. 4103 215.586(a) "ot" to "to"
32. 4401 215.628(d) "busines" to "business"
33. 4683 215.960(d)(1) "Sectin" to "Section"
34. 4800 App C, Rule 104(h) "operator on" to "operator of"
35. 4801 App C, Rule 104(h) "compoiance" to "compliance"
36. 4809 App C, Rule 104(h) "complinance" to "compliance"
37. 4838 App C, Rule 205(j),(3) "subsequ3nt" to "subsequent"
38. 4839 App C, Rule 205(j),(3) "emissin" to "emission"
39. 4867 App C, Rule 205(m), (1)(B) "encrements" to "increments"
40. 4883 App C, Rule 205(m), (1)(C) "emissin" to "emission"
41. 4887 App C, Rule 205(m), (1)(C)(i) "wquipment" to "equipment"
42. 4890 App C, Rule 205(m), (1)(C)(ii) "installagion" to "installation"
43. 4902 App C, Rule 205(m), (2)(A) "Complaice" to "Compliance"
44. 4925 App C, Rule 205(m), (3)(B) "owenr" to "owner"
45. 4927 App C, Rule 205(m), (3)(C) "complinace" to "compliance"
46. 4931 App C, Rule 205(m), (3)(D) "owenr" to "owner"
47. 4951 App C, Rule 205(m), (5)(A) "Poan" to "Plan"
48. 4958 App C, Rule 205(m), (5)(B)(i) "indetail" to "in detail"
49. 4985 App C, Rule 205(m), (6)(A)(ii) "occurre dwithout" to "occurred without"

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50. 5010 App D, 2nd page Delete redundant entries for Benzil and Benzilic acid
51. 5010 App D, 4th page "Diethylene glycol mononbutyl ether acetate" to "Diethylene glycol monobutyl ether acetate"
52. 5010, App D, 4th page "Deithyleneglycol monoethyl ether" to "Diethyleneglycol monoethyl ether"
53. 5010 App D, 5th page "Ethylene chloroydrin" to "Ethylene chlorohydrin"
54. 5010 App D, 5th page "Ethylene glycolmonoethyl ether acetate" to "Ethylene glycol monoethyl ether acetate"
55. 5010 App D, 5th page "Ethylene glycolmonoethylether" to "Ethylene glycol monoethylether"
56. 5010 App D, 5th page "Ethylene glycolmonomethyl ether acetate" to "Ethylene glycol monomethyl ether acetate"
57. 5010 App D, 5th page "Ethylene glycolmonopropyl ether" to "Ethylene glycol monopropyl ether"
58. 5010 App D, 7th page "b-naphtalene sulfonic acid" to "b-naphthalene"
59. 5010 App D, 8th page "Propional dehyde" to " Propionaldehyde"
60. 5143 App F "EQUPATION" to "EQUATION"

1 TITLE 35: ENVIRONMENTAL PROTECTION
2 SUBTITLE B: AIR POLLUTION
3 CHAPTER I: POLLUTION CONTROL BOARD
4 SUBCHAPTER c: EMISSIONS STANDARDS AND LIMITATIONS
5 FOR STATIONARY SOURCES
6

7 PART 215
8 ORGANIC MATERIAL EMISSION STANDARDS AND LIMITATIONS
9

10 SUBPART A: GENERAL PROVISIONS
11

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15	215.102	Testing Methods
16	215.103	Abbreviations and Conversion Factors
17	215.104	Definitions
18	215.105	Incorporation by Reference
19	215.106	Afterburners
20	215.107	Determination of Applicability
21	215.108	Measurement of Vapor Pressures
22	215.109	Monitoring for Negligibly-Reactive Compounds
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25 AND LOADING OPERATIONS
26

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29	215.122	Loading Operations
30	215.123	Petroleum Liquid Storage Tanks
31	215.124	External Floating Roofs
32	215.125	Compliance Dates and Geographical Areas
33	215.126	Compliance Plan
34	215.127	Emissions Testing
35	215.128	Measurement of Seal Gaps
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38 MISCELLANEOUS EQUIPMENT
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43	215.143	Vapor Blowdown
44	215.144	Safety Relief Valves
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60	215.205	Alternative Emission Limitations
61	215.206	Exemptions from Emission Limitations
62	215.207	Compliance by Aggregation of Emission Units
63	215.208	Testing Methods for Volatile Organic Material Content
64	215.209	Exemption from General Rule on Use of Organic Material
65	215.210	Alternative Compliance Schedule <u>(Repealed)</u>
66	215.211	Compliance Dates and Geographical Areas
67	215.212	Compliance Plan <u>(Repealed)</u>
68	215.213	Special Requirements for Compliance Plan <u>(Repealed)</u>
69	215.214	Roadmaster Emissions Limitations (Repealed)
70	215.215	DMI Emissions Limitations <u>(Repealed)</u>

71

72 SUBPART H: SPECIAL LIMITATIONS FOR SOURCES IN MAJOR URBANIZED
73 AREAS WHICH ARE NONATTAINMENT FOR OZONE

74

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77	215.241	External Floating Roofs
78	215.245	Flexographic and Rotogravure Printing
79	215.249	Compliance Dates

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81 SUBPART I: ADJUSTED RACT EMISSIONS LIMITATIONS

82

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85	215.261	Petition <u>(Repealed)</u>
86	215.263	Public Hearing <u>(Repealed)</u>
87	215.264	Board Action <u>(Repealed)</u>
88	215.267	Agency Petition <u>(Repealed)</u>

89

90 SUBPART K: USE OF ORGANIC MATERIAL

91

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95 215.303 Fuel Combustion Emission Sources
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97 215.305 Viscose Exemption (Repealed)

98

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100

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102 215.340 Hexane Extraction Soybean Crushing ([Repealed](#))
103 215.342 Hexane Extraction Corn Oil Processing ([Repealed](#))
104 215.344 Recordkeeping for Vegetable Oil Processes ([Repealed](#))
105 215.345 Compliance Determination ([Repealed](#))
106 215.346 Compliance Dates and Geographical Areas ([Repealed](#))
107 215.347 Compliance Plan ([Repealed](#))

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110

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113 215.402 Exemptions
114 215.403 Applicability of Subpart K
115 215.404 Testing and Monitoring (Repealed)
116 215.405 Compliance Dates and Geographical Areas
117 215.406 Alternative Compliance Plan ([Repealed](#))
118 215.407 Compliance Plan ([Repealed](#))
119 215.408 Heatset Web Offset Lithographic Printing
120 215.409 Testing Methods for Volatile Organic Material Content
121 215.410 Emissions Testing

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POLYMER MANUFACTURING EQUIPMENT

124

125

126 Section

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128 215.421 General Requirements
129 215.422 Inspection Program Plan for Leaks
130 215.423 Inspection Program for Leaks
131 215.424 Repairing Leaks
132 215.425 Recordkeeping for Leaks
133 215.426 Report for Leaks
134 215.427 Alternative Program for Leaks
135 215.428 Compliance Dates
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137 215.430 General Requirements
138 215.431 Inspection Program Plan for Leaks

139 215.432 Inspection Program for Leaks
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145 215.438 Standards for Control Devices
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148 SUBPART R: PETROLEUM REFINING AND RELATED
149 INDUSTRIES; ASPHALT MATERIALS

150

151 Section

152 215.441 Petroleum Refinery Waste Gas Disposal
153 215.442 Vacuum Producing Systems
154 215.443 Wastewater (Oil/Water) Separator
155 215.444 Process Unit Turnarounds
156 215.445 Leaks: General Requirements
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158 215.447 Monitoring Program for Leaks
159 215.448 Recordkeeping for Leaks
160 215.449 Reporting for Leaks
161 215.450 Alternative Program for Leaks
162 215.451 Sealing Device Requirements
163 215.452 Compliance Schedule for Leaks
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166 SUBPART S: RUBBER AND MISCELLANEOUS
167 PLASTIC PRODUCTS

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169 Section

170 215.461 Manufacture of Pneumatic Rubber Tires
171 215.462 Green Tire Spraying Operations
172 215.463 Alternative Emission Reduction Systems
173 215.464 Emissions Testing
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175 215.466 Compliance Plan ([Repealed](#))
176 215.467 Testing Methods for Volatile Organic Material Content

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178 SUBPART T: PHARMACEUTICAL MANUFACTURING

179

180 Section

181 215.480 Applicability of Subpart T
182 215.481 Control of Reactors, Distillation Units, Crystallizers, Centrifuges and Vacuum
183 Dryers
184 215.482 Control of Air Dryers, Production Equipment Exhaust Systems and Filters

185 215.483 Material Storage and Transfer
186 215.484 In-Process Tanks
187 215.485 Leaks
188 215.486 Other Emission Sources
189 215.487 Testing
190 215.488 Monitors for Air Pollution Control Equipment
191 215.489 Recordkeeping (Renumbered)
192 215.490 Compliance Schedule (Renumbered)

193

194 SUBPART U: COKE MANUFACTURING AND BY-PRODUCT RECOVERY

195

196 Section

197 215.500 Exceptions
198 215.510 Coke By-Product Recovery Plants
199 215.512 Coke By-Product Recovery Plant Leaks
200 215.513 Inspection Program
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202 215.515 Reporting Requirements
203 215.516 Compliance Dates
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205

206 SUBPART V: AIR OXIDATION PROCESSES

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208 Section

209 215.520 Applicability
210 215.521 Definitions
211 215.525 Emission Limitations for Air Oxidation Processes
212 215.526 Testing and Monitoring
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219

220 SUBPART X: CONSTRUCTION

221

222 Section

223 215.561 Architectural Coatings
224 215.562 Paving Operations
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226

227 SUBPART Y: GASOLINE DISTRIBUTION

228

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230 215.581 Bulk Gasoline Plants

231 215.582 Bulk Gasoline Terminals
232 215.583 Gasoline Dispensing Facilities – Storage Tank Filling Operations
233 215.584 Gasoline Delivery Vessels
234 215.585 Gasoline Volatility Standards (Repealed)
235 215.586 Emissions Testing

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237

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238

239 Section

240 215.601 Perchloroethylene Dry Cleaners (Repealed)
241 215.602 Exemptions (Repealed)
242 215.603 Leaks (Repealed)
243 215.604 Compliance Dates and Geographical Areas areas-(Repealed)
244 215.605 Compliance Plan (Repealed)
245 215.606 Exception to Compliance Plan (Repealed)
246 215.607 Standards for Petroleum Solvent Dry Cleaners
247 215.608 Operating Practices for Petroleum Solvent Dry Cleaners
248 215.609 Program for Inspection and Repair of Leaks
249 215.610 Testing and Monitoring
250 215.611 Exemption for Petroleum Solvent Dry Cleaners
251 215.612 Compliance Dates and Geographical Areas (Repealed)
252 215.613 Compliance Plan (Repealed)
253 215.614 Testing Method for Volatile Organic Material Content of Wastes
254 215.615 Emissions Testing

255

256

SUBPART AA: PAINT AND INK MANUFACTURING

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258 Section

259 215.620 Applicability
260 215.621 Exemption for Waterbase Material and Heatset Offset Ink
261 215.623 Permit Conditions
262 215.624 Open-top Mills, Tanks, Vats or Vessels
263 215.625 Grinding Mills
264 215.628 Leaks
265 215.630 Clean Up
266 215.636 Compliance Date

267

268

SUBPART BB: POLYSTYRENE PLANTS

269

270 Section

271 215.875 Applicability of Subpart BB
272 215.877 Emissions Limitation at Polystyrene Plants
273 215.879 Compliance Date
274 215.881 Compliance Plan (Repealed)
275 215.883 Special Requirements for Compliance Plan (Repealed)
276 215.886 Emissions Testing

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SUBPART PP: MISCELLANEOUS FABRICATED PRODUCT
MANUFACTURING PROCESSES

- Section
215.920 Applicability
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215.926 Control Requirements

SUBPART QQ: MISCELLANEOUS FORMULATION MANUFACTURING PROCESSES

- Section
215.940 Applicability
215.943 Permit Conditions
215.946 Control Requirements

SUBPART RR: MISCELLANEOUS ORGANIC CHEMICAL
MANUFACTURING PROCESSES

- Section
215.960 Applicability
215.963 Permit Conditions
215.966 Control Requirements

- 215.APPENDIX A Rule into Section Table
215.APPENDIX B Section into Rule Table
215.APPENDIX C Past Compliance Dates
215.APPENDIX D List of Chemicals Defining Synthetic Organic Chemical and Polymer
Manufacturing
215.APPENDIX E Reference Methods and Procedures
215.APPENDIX F Coefficients for the Total Resource Effectiveness Index (TRE) Equation

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

SOURCE: Adopted as Chapter 2: Air Pollution, Rule 205: Organic Material Emission
Standards and Limitations, R71-23, 4 PCB 191, filed and effective April 14, 1972; amended in
R77-3, 33 PCB 357, at 3 Ill. Reg. 18, p. 41, effective May 3, 1979; amended in R78-3 and R78-
4, 35 PCB 75, 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. 13601 Corrected at 7 Ill. Reg. 14575;
amended in R82-14 at 8 Ill. Reg. 13254, effective July 12, 1984; amended in R83-36 at 9 Ill.
Reg. 9114, effective May 30, 1985; amended in R82-14 at 9 Ill. Reg. 13960, effective August 28,
1985; amended in R85-28 at 11 Ill. Reg. 3127, effective February 3, 1987; amended in R82-14 at
11 Ill. Reg. 7296, effective April 3, 1987; amended in R85-21(A) at 11 Ill. Reg. 11770, effective
June 29, 1987; recodified in R86-39 at 11 Ill. Reg. 13541; amended in R82-14 and R86-12 at 11
Ill. Reg. 16706, effective September 30, 1987; amended in R85-21(B) at 11 Ill. Reg. 19117,

323 effective November 9, 1987; amended in R86-36, R86-39, R86-40 at 11 Ill. Reg. 20829,
324 effective December 14, 1987; amended in R82-14 and R86-37 at 12 Ill. Reg. 815, effective
325 December 24, 1987; amended in R86-18 at 12 Ill. Reg. 7311, effective April 8, 1988; amended
326 in R86-10 at 12 Ill. Reg. 7650, effective April 11, 1988; amended in R88-23 at 13 Ill. Reg.
327 10893, effective June 27, 1989; amended in R88-30(A) at 14 Ill. Reg. 3555, effective February
328 27, 1990; emergency amendments in R88-30A at 14 Ill. Reg. 6421, effective April 11, 1990, for
329 a maximum of 150 days; amended in R88-19 at 14 Ill. Reg. 7596, effective May 8, 1990;
330 amended in R89-16(A) at 14 Ill. Reg. 9173, effective May 23, 1990; amended in R88-30(B) at
331 15 Ill. Reg. 3309, effective February 15, 1991; amended in R88-14 at 15 Ill. Reg. 8018, effective
332 May 14, 1991; amended in R91-7 at 15 Ill. Reg. 12217, effective August 19, 1991; amended in
333 R91-10 at 15 Ill. Reg. 15595, effective October 11, 1991; amended in R89-7(B) at 15 Ill. Reg.
334 17687, effective November 26, 1991; amended in R91-9 at 16 Ill. Reg. 3132, effective February
335 18, 1992; amended in R91-24 at 16 Ill. Reg. 13555, effective August 24, 1992; amended in R91-
336 30 at 16 Ill. Reg. 13849, effective August 24, 1992; amended in R98-15 at 22 Ill. Reg. 11427,
337 effective June 19, 1998; amended in R12-24 at 37 Ill. Reg. 1683, effective January 28, 2013;
338 expedited correction at 37 Ill. Reg. 16858, effective January 28, 2013.
339

340 SUBPART A: GENERAL PROVISIONS

341 **Section 215.100 Introduction**

- 342
- 343
- 344 a) This Part contains standards and limitations for emissions of organic material
345 from stationary sources located in areas other than the Chicago area counties of
346 Cook, DuPage, Kane, Lake, McHenry, and Will, the Townships of Aux Sable and
347 Goose Lake in Grundy County, and the Township of Oswego in Kendall County,
348 and the Metro East area counties of Madison, Monroe, and St. Clair. Standards
349 and limitations applying in the Chicago area are set forth in 35 Ill. Adm. Code
350 218. Standards and limitations applying in the Metro East area are set forth in 35
351 Ill. Adm. Code 219.
352
- 353 1) Notwithstanding any other provision of this Part, the provisions of this
354 Part shall not apply to sources located in the Chicago area counties of
355 Cook, DuPage, Kane, Lake, McHenry, and Will, the Townships of Aux
356 Sable and Goose Lake in Grundy County, and the Township of Oswego in
357 Kendall County, unless the provisions of 35 Ill. Adm. Code Part 218
358 applicable to such sources are voided or otherwise made ineffective
359 pursuant to Section 218.100 of 35 Ill. Adm. Code Part 218.
360
- 361 2) Notwithstanding any other provision of this Part, the provisions of this
362 Part shall not apply to sources in the Metro East area counties of Madison,
363 Monroe and St. Clair unless the provisions of 35 Ill. Adm. Code Part 219
364 applicable to such sources are voided or otherwise made ineffective
365 pursuant to Section 219.100 of 35 Ill. Adm. Code Part 219.
366
- 367 b) Sources subject to this Part may be subject to the following:
368

- 369 1) Permits required under 35 Ill. Adm. Code 201;
370
371 2) Air quality standards under 35 Ill. Adm. Code 243.
372
373 c) This Part is divided into Subparts which are grouped as follows:
374
375 1) Subpart A: General Provisions;
376
377 2) Subpart B - J: Emissions from equipment and operations in common to
378 more than one industry;
379
380 3) Subparts K - M: Emissions from use of organic material;
381
382 4) Subpart N - end: Special rules for various industry groups.
383

384 (Source: Amended at 16 Ill. Reg. 13849, effective August 24, 1992)
385

386 **Section 215.101 Clean-up and Disposal Operations**

387
388 Emission of organic material released during clean-up operations and disposal shall be included
389 with other emissions of organic material from the related emission source or air pollution control
390 equipment in determining total emissions.
391

392 (Source: Amended at 3 Ill. Reg. 30, p. 124, effective July 28, 1979)
393

394 **Section 215.102 Testing Methods**

395
396 Volatile organic material or organic material concentrations in a stream is measured by Method
397 18, 40 CFR 60, Appendix A, incorporated by reference in Section 215.105,
398 ~~Measurement~~ Measurement of Gaseous Organic Compounds incorporated by reference in
399 215.105 except as follows. ASTM ~~D4457~~ ~~4457~~, incorporated by reference in Section 215.105,
400 may be used for halogenated organic compounds. Method 25, 25A or 25B, 40 CFR 60,
401 Appendix A, incorporated by reference in 215.105 may be substituted for Method 18 provided
402 the source owner or operator submits calibration data and other proof that this method provides
403 the information in the emission units of the applicable standard. The volumetric flow rate and
404 gas velocity is determined in accordance with Methods 1, 1A, 2, 2A, 2C, 2D, 3 and 4, 40 ~~CFR~~ ~~CF~~
405 Part 60, Appendix A, incorporated by reference in 215.105. Any other alternate test method must
406 be approved by the Agency, which shall consider data comparing the performance of the
407 proposed alternative to the performance of the approved test method(s). If the Agency
408 determines that such data demonstrates that the proposed alternative will achieve results
409 equivalent to the approved test method(s), the Agency shall approve the proposed alternative.
410

411 (Source: Amended at 15 Ill. Reg. 8018, effective May 14, 1991)
412

413 **Section 215.103 Abbreviations and Conversion Factors**

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a) The following abbreviations are used in this Part:

bbl	barrels (42 gal)
C	degrees Celsius or centigrade
cu	cubic inches
in	
F	degrees Fahrenheit
ft	foot
g	gram
g/	grams per mole
mo	
le	
gal	gallon
hr	hour
in	inch
K	degrees Kelvin
kca	kilocalorie
l	
kg	kilogram
kg/	kilograms per hour
hr	
kPa	kilopascals; one thousand newtons per square meter
l	liter
lb	pound
lbs/	pounds per hour
hr	
lbs/	pounds per gallon
gal	
m	meter
Mg	megagram, metric ton or tonne
mi	minute
n	
MJ	megajoules
m	millimeters of mercury
m	
Hg	
ml	milliliter
pp	parts per million
m	
pp	parts per million by volume
mv	
psi	pounds per square inch
psi	pounds per square inch absolute
a	

psi	pounds per square inch guage
g	
sc	standard cubic meters
m	
T	English ton

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- b) The following conversion factors have been used in this Part:

English	Metric
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422
423
424

(Source: Amended at 12 Ill. Reg. 815, effective December 24, 1987)

425 **Section 215.104 Definitions**

426
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The definitions of 35 Ill. Adm. Code 201 and 211 apply to this Part, as well as the definitions contained in this Section. When the definition contained in this Section is more specific than that found in 35 Ill. Adm. Code 201 or 211, it shall take precedence in application of this Part.

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"Furniture Coating Application Line": The combination of coating application equipment, flash-off area, spray booths, ovens, conveyors, and other equipment operated in a predetermined sequence for purpose of applying coating to wood furniture.

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"In Vacuum Service": For the purposes of Subpart Q, Sections 215.430 through 215.438 equipment that is operating at an internal pressure that is at least 5 kPa (0.73 psia) below ambient pressure.

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"Opaque Stains": All stains containing pigments not classified as semi-transparent stains, including stains, glazes and other opaque material to give character to wood.

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(Source: Amended at 37 Ill. Reg. 1683, effective January 28, 2013)

447 **Section 215.105 Incorporations by Reference**

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The following materials are incorporated by reference:

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- a) American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken PA 19428-9555:

- 1) ASTM D 1644-59 Method A
- 2) ASTM D 1475-60

Electronic Filing: Received, Clerk's Office 3/23/2018 PC#4

- 458 3) ASTM D 2369-81
459
460 4) ASTM D 2879-83 (Approved 1983); ASTM D 2879-86 (Approved 1986)
461
462 5) ASTM D 86-82 (Approved 1982)
463
464 6) ASTM E 260-73 (Approved 1973), E 168 - 67 (Reapproved 1977), E 169
465 - 63 (Reapproved 1981), E 20 (Approved 1985)
466
467 7) ASTM D 97-66
468
469 8) ASTM D 1946-67
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471 9) ASTM D 2382-76
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473 10) ASTM D 2504-83
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475 11) ASTM D 2382-83
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477 12) ASTM D-4953-89
478
479 13) ASTM D-4457-85
480
481 b) Federal Standard 141a, Method 4082.1.
482
483 c) National Fire Codes, National Fire Protection Association, Battery March Park,
484 Quincy, Massachusetts 02269 (1979).
485
486 d) United States Environmental Protection Agency, Washington, D.C., EPA-450/2-
487 77-026, Appendix A.
488
489 e) United States Environmental Protection Agency, Washington, D.C., EPA-450/2-
490 78-051 Appendix A and Appendix B (December 1978).
491
492 f) Standards Industrial Classification Manual, published by Executive Office of the
493 President, Office of Management and Budget, Washington, D.C., 1972.
494
495 g) 40 CFR 60 (1989).
496
497 h) United States Environmental Protection Agency, Washington D.C., EPA-450/2-
498 78-041.
499
500 i) Elsevier Scientific Publishing Co., New York, "The Vapor Pressure of Pure
501 Substances" (1973), Boublik, T., V. Fried and E. Hala.
502
503 j) McGraw-Hill Book Company, "Perry's Chemical Engineer's Handbook" (1984).

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- k) Chemical Rubber Publishing Company, "CRC Handbook of Chemistry and Physics" (1968-87).
- l) McGraw-Hill Book Company, "Lange's Handbook of Chemistry" (1985) John A. Dean, editor.
- m) United States Environmental Protection Agency, Washington D.C., "Control of Volatile Organic Emissions from Manufacture of Synthesized Pharmaceutical Products", (EPA-450/2-78-029).

BOARD NOTE: The incorporations by reference listed in this Section contain no later amendments or editions.

(Source: Amended at 37 Ill. Reg. 1683, effective January 28, 2013)

Section 215.106 Afterburners

The operation of any oil fired or natural gas fired after-burner and capture system used to comply with this Part of any section thereof is not required during the period of November 1 of any year to April 1 of the following year provided that:

- a) The operation of such devices is not required for purposes of occupational safety or health, or for the control of toxic substances, odor nuisances or other regulated pollutants; and
- b) Such devices are operated for the duration of any period for which an ozone advisory, alert or emergency has been declared pursuant to 35 Ill. Adm. Code 244.

(Source: Amended at 3 Ill. Reg. 30, p. 124, effective July 28, 1979)

Section 215.107 Determination of Applicability

- a) In determining the applicability of regulations in this Part which are qualified by "when averaged over the preceding three calendar years" the "preceding three calendar years" shall mean:
 - 1) The three years preceding the date by which compliance is required for purposes of determining initial applicability to existing sources;
 - 2) Any consecutive three year period for purposes of determining applicability to sources not previously subject to the regulation on the date by which compliance is required.
- b) Sources to which the regulation has been applicable at any time shall continue to

550 be subject to the applicable limitations even if operations change so as to result in
551 an average which is below that which initially made the regulation applicable to
552 those sources' operations.
553

554 (Source: Added in R85-21(A) at 11 Ill. Reg. 11770, effective June 29, 1987)
555

556 **Section 215.108 Measurement of Vapor Pressures**
557

558 a) Vapor Pressure of Volatile Organic Liquids
559

560 1) If the volatile organic liquid consists of only a single compound, the vapor
561 pressure shall be determined by ASTM Method D 2879-86, or the vapor
562 pressure may be obtained from a published source such as "The Vapor
563 Pressure of Pure Substances," "Perry's Chemical Engineer's Handbook,"
564 "CRC Handbook of Chemistry and Physics," or "Lange's Handbook of
565 Chemistry," each source incorporated by reference at Section 215.105.
566

567 2) If the volatile organic liquid is a mixture, the vapor pressure shall be
568 determined by ASTM Method D 2879-86 or by the following equation:
569

$$P_{vol} = \sum_{i=1}^n P_i X_i$$

570 where:
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P_{vol} = Total vapor pressure of the mixture.

n = Number of components in the mixture.

i = Subscript denoting an individual component.

P_i = Vapor pressure of a component determined in accordance
with subsection (a)(1).

X_i = Mole fraction of the component in the total mixture.

573
574 b) Vapor Pressure of Organic Material or Solvent
575

576 1) If the organic material or solvent consists of only a single compound, the
577 vapor pressure shall be determined by ASTM Method D2879-86, or the
578 vapor pressure may be obtained from a published source such as "The
579 Vapor Pressure of Pure Substances," "Perry's Chemical Engineer's
580 Handbook," "CRC Handbook of Chemistry and Physics," or "Lange's
581 Handbook of Chemistry," each source incorporated by reference at
582 Section 215.105.
583

584 2) If the organic material or solvent is a mixture made up of both organic
585 material compounds and compounds which are not organic material, the
586 vapor pressure shall be determined by the following equation:

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GRAPHIC MATERIAL
See printed copy of IAC for detail

where:

P_{om} = Total vapor pressure of the portion of the mixture which is composed of organic material.

n = Number of organic material components in the mixture.

i = Subscript denoting an individual component.

P_i = Vapor pressure of an organic material component determined in accordance with subsection (b)(1).

X_i = Mole fraction of the organic material component of the total mixture.

- 3) If the organic material or solvent is a mixture made up of only organic material compounds, the vapor pressure shall be determined by ASTM Method D2879-86 or by the above equation.

c) Vapor Pressure of Volatile Organic Material

- 1) If the volatile organic material consists of only a single compound, the vapor pressure shall be determined by ASTM Method D2879-86, or the vapor pressure may be obtained from a published source such as "The Vapor Pressure of Pure Substances," "Perry's Chemical Engineer's Handbook," "CRC Handbook of Chemistry and Physics," or "Lange's Handbook of Chemistry," each source incorporated by reference at Section 215.105.

- ~~2)~~ If the volatile organic material is a mixture made up of both volatile organic material compounds and compounds which are not volatile organic material, the vapor pressure shall be determined by the following equation:

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GRAPHIC MATERIAL
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where:

P_{vom} = Total vapor pressure of the portion of the mixture which is composed of volatile organic material.

n = Number of volatile organic material components in the mixture.

i = Subscript denoting an individual component.

P_i = Vapor pressure of a volatile organic material component determined in accordance with subsection (c)(1).

X_i = Mole fraction of the volatile organic material component of the total mixture.

- 3) If the volatile organic material is a mixture made up of only volatile organic material compounds, the vapor pressure shall be determined by ASTM D2879-86 or by the above equation.

(Source: Added at 15 Ill. Reg. 8018, effective May 14, 1991)

Section 215.109 Monitoring for Negligibly-Reactive Compounds

Any provision of 35 Ill. Adm. Code 211 notwithstanding, the Agency may require an owner or operator to submit monitoring or testing methods and results for any of the compounds listed at 35 Ill. Adm. Code 211.7150 as exempted from the definition of "volatile organic material" demonstrating the amount of exempted compounds in the source's emissions, as a precondition to such exemption, where direct quantification of volatile organic material emissions is not possible due to any of the following circumstances which make it necessary to quantify the exempt compound emissions in order to quantify volatile organic material emissions:

- a) VOMs and exempted compounds are mixed together in the same emissions;

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- b) There are a large number of exempted compounds in the same emissions; or
- c) The chemical composition of the exempted compounds in the emissions is not known.

Board Note: Derived from the USEPA "Recommended Policy on the Control of Volatile Organic Compounds", as amended at 56 Fed. Reg. 11418, March 18, 1991, and subsequently codified as 40 CFR 51.100(s), as added at 57 Fed. Reg. 3941 (Feb. 3, 1992). See also 35 Ill. Adm. Code 211.7150 for the basic definition of "volatile organic material." USEPA is not bound by any state determination as to monitoring. 40 CFR 51.100(s)(4).

(Source: Amended at 22 Ill. Reg. 11427, effective June 19, 1998)

**SUBPART B: ORGANIC EMISSIONS FROM STORAGE
AND LOADING OPERATIONS**

Section 215.121 Storage Containers

No person shall cause or allow the storage of any volatile organic liquid with a vapor pressure of 17.24 kPa (2.5 psia) or greater at 294.3 K (70° F) or any gaseous organic material in any stationary tank, reservoir or other container of more than 151 cubic meters (40,000 gal) capacity unless such tank, reservoir or other container:

- a) Is a pressure tank capable of withstanding the vapor pressure of such liquid or the pressure of the gas, so as to prevent vapor or gas loss to the atmosphere at all times; or,
- b) Is designed and equipped with one of the following vapor loss control devices:
 - 1) A floating roof which rests on the surface of the volatile organic liquid and is equipped with a closure seal or seals between the roof edge and the tank wall. Such floating roof shall not be permitted if the volatile organic liquid has a vapor pressure of 86.19 kPa (12.5 psia) or greater at 294.3° K (70° F). No person shall cause or allow the emission of air contaminants into the atmosphere from any gauging or sampling devices attached to such tanks, except during sampling or maintenance operations.
 - 2) A vapor recovery system consisting of:
 - A) A vapor gathering system capable of collecting 85% or more of the uncontrolled volatile organic material that would be otherwise emitted to the atmosphere; and,
 - B) A vapor disposal system capable of processing such volatile

725 organic material so as to prevent its emission to the atmosphere.
726 No person shall cause or allow the emission of air contaminants
727 into the atmosphere from any gauging or sampling devices
728 attached to such tank, reservoir or other container except during
729 sampling.
730

- 731 3) Other equipment or means of equal efficiency approved by the Agency according
732 to the provisions of 35 Ill. Adm. Code 201.
733

734 (Source: Amended at 12 Ill. Reg. 815, effective December 24, 1987)
735

736 **Section 215.122 Loading Operations**
737

- 738 a) No person shall cause or allow the discharge of more than 3.6 kg/hr (8 lbs/hr) of
739 organic material into the atmosphere during the loading of any organic material
740 from the aggregate loading pipes of any loading facility having through-put of
741 greater than 151 cubic meters per day (40,000 gal/day) into any railroad tank car,
742 tank truck or trailer unless such loading facility is equipped with submerged
743 loading pipes, submerged fill, or a device that is equally effective in controlling
744 emissions and is approved by the Agency according to the provisions of 35 Ill.
745 Adm. Code 201.
746

- 747 b) No person shall cause or allow the loading of any organic material into any
748 stationary tank having a storage capacity of greater than 946 l (250 gal), unless
749 such tank is equipped with a permanent submerged loading pipe, submerged fill,
750 or an equivalent device approved by the Agency according to the provisions of 35
751 Ill. Adm. Code 201 or unless such tank is a pressure tank as described in Section
752 215.121(a) or is fitted with a recovery system as described in Section
753 215.121(b)(2).
754

- 755 c) Exception: If no odor nuisance exists the limitations of this Section shall only
756 apply to the loading of volatile organic liquid with a vapor pressure of 17.24 kPa
757 (2.5 psia) or greater at 294.3° K (70° F).
758

759 (Source: Amended at 14 Ill. Reg. 9173, effective May 23, 1990)
760

761 **Section 215.123 Petroleum Liquid Storage Tanks**
762

- 763 a) The requirements of subsection (b) below shall not apply to any stationary storage
764 tank:
765

- 766 1) Equipped before January 1, 1979 with one of the vapor loss control
767 devices specified in Section 215.121(b) of this Part, except Section
768 215.121(b)(1) of this Part;
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- 770 2) With a capacity of less than 151.42 cubic meters;

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- 3) With a capacity of less than 1,600 cubic meters (422,400 gallons) and used to store produced crude oil and condensate prior to custody transfer;
 - 4) With a capacity of less than 1,430 cubic meters (378,000 gallons) and used to store produced oil or condensate in crude oil gathering;
 - 5) Subject to new source performance standards for storage vessels of petroleum liquid, 40 CFR 60, incorporated by reference in Section 215.105 of this Part. *The provisions of Section 111 of the Clean Air Act...relating to standards of performance for new stationary sources...are applicable in this State and are enforceable under [The Environmental Protection Act].* (Ill. Rev. Stat., ch. 111½, par. 1009.1(b)).
 - 6) In which volatile petroleum liquid is not stored; or
 - 7) Which is a pressure tank as described in Section 215.121(a) of this Part.
- b) Subject to subsection (a) above no owner or operator of a stationary storage tank shall cause or allow the storage of any volatile ~~petroleum~~ petroleum liquid in the tank unless:
- 1) The tank is equipped with one of the vapor loss control devices specified in Section 215.121(b) of this Part;
 - 2) There are no visible holes, tears or other defects in the seal or any seal fabric or material of any floating roof;
 - 3) All openings of any floating roof deck, except stub drains, are equipped with covers, lids or seals such that:
 - A) The cover, lid or seal is in the closed position at all times except when petroleum liquid is transferred to or from the tank;
 - B) Automatic bleeder vents are closed at all times except when the roof is floated off or landed on the roof leg supports; and
 - C) Rim vents, if provided, are set to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting;
 - 4) Routine inspections of floating roof seals are conducted through roof hatches once every six months;
 - 5) A complete inspection of the cover and seal of any floating roof tank is made whenever the tank is emptied for reasons other than the transfer of

817 petroleum liquid during the normal operation of the tank, or whenever
818 repairs are made as a result of any semi-annual inspection or incidence of
819 roof damage or defect; and

820
821 6) A record of the results of each inspection conducted under subsection
822 (b)(4) or (b)(5) above is maintained.

823
824 c) Owners and operators of petroleum liquid storage tanks were required to have
825 compliance schedules as summarized in Appendix C of this Part.

826
827 (Source: Amended at 16 Ill. Reg. 13849, effective August 24, 1992)

828

829 **Section 215.124 External Floating Roofs**

830

831 a) In addition to meeting the requirements of Section 215.123(b), no owner or
832 operator of a stationary storage tank equipped with an external floating roof shall
833 cause or allow the storage of any volatile petroleum liquid in the tank unless:

834

835 1) The tank has been fitted with a continuous secondary seal extending from
836 the floating roof to the tank wall (rim mounted secondary seal) or any
837 other device which controls volatile organic material emissions with an
838 effectiveness equal to or greater than a rimmounted secondary seal;

839

840 2) Each seal closure device meets the following requirements:

841

842 A) The seal is intact and uniformly in place around the circumference
843 of the floating roof between the floating roof and tank wall; and

844

845 B) The accumulated area of gaps exceeding 0.32 centimeter (1/8 inch)
846 in width between the secondary seal and the tank wall shall not
847 exceed 21.2 square centimeters per meter of tank diameter (1.0
848 square inches per foot of tank diameter).

849

850 3) Emergency roof drains are provided with slotted membrane fabric covers
851 or equivalent covers across at least 90 percent of the area of the opening;

852

853 4) Openings are equipped with projections into the tank which remain below
854 the liquid surface at all times;

855

856 5) Inspections are conducted prior to May 1 of each year to insure
857 compliance with subsection (a);

858

859 6) The secondary seal gap is measured prior to May 1 of each year;

860

861 7) Records of the types of volatile petroleum liquid stored, the maximum true
862 vapor pressure of the liquid as stored, the results of the inspections and the

863 results of the secondary seal gap measurements are maintained and
864 available to the Agency, upon verbal or written request, at any reasonable
865 time for a minimum of two years after the date on which the record was
866 made.

- 867
- 868 b) Subsection (a) does not apply to any stationary storage tank equipped with an
869 external floating roof:
- 870
- 871 1) Exempted under Section 215.123(a)(2) through 215.123(a)(6);
872
- 873 2) Of welded construction equipped with a metallic-type shoe seal having a
874 secondary seal from the top of the shoe seal to the tank wall (shoe-
875 mounted secondary seal);
876
- 877 3) Of welded construction equipped with a metallic-type shoe seal, a liquid-
878 mounted foam seal, or a liquid-mounted liquid-filled-type seal, or other
879 closure device of equivalent control efficiency approved by the Agency in
880 which a petroleum liquid with a true vapor pressure less than 27.6 kPa (4.0
881 psia) at 294.3° K (70° F) is stored; or
882
- 883 4) Used to store crude oil.

884

885 (Source: Amended at 14 Ill. Reg. 9173, effective May 23, 1990)

886

887 **Section 215.125 Compliance Dates and Geographical Areas**

- 888
- 889 a) Except as otherwise stated in subsection (b), every owner or operator of an
890 emission source subject to Sections 215.123 or 215.124 shall comply with its
891 standards and limitations by December 31, 1983.
- 892
- 893 b) If an emission source is not located in one of the counties listed below and is also
894 not located in any county contiguous thereto, the owner or operator of the
895 emission source shall comply with the requirements of Sections 215.123 and
896 215.124 no later than December 31, 1987:

897

898 Cook	Macoupin
899	
900 DuPage	Madison
901	
902 Kane	Monroe
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904 Lake	Saint Clair
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906 (BOARD NOTE: These counties are proposed to be designated as nonattainment
907 by the United States Environmental Protection Agency at 47 Fed. Reg. 31588,
908 July 21, 1982).

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- c) Notwithstanding subsection (b), if any county is designated as nonattainment by the United States Environmental Protection Agency (USEPA) at any time subsequent to the effective date of this Section, the owner or operator of an emission source located in that county or any county contiguous to that county who would otherwise be subject to the compliance date in subsection (b) shall comply with the requirements of Sections 215.123 and 215.124 within one year from the date of redesignation but in no case later than December 31, 1987.

(Source: Adopted at 7 Ill. Reg. 1244, effective January 21, 1983)

Section 215.126 Compliance Plan

- a) The owner or operator of an emission source subject to Section 215.125(a) shall submit to the Agency a compliance plan as required by 35 Ill. Adm. Code 201.241, including a project completion schedule where applicable, no later than April 21, 1983.
- b) The owner or operator of an emission source subject to Section 215.125(b) shall submit to the Agency a compliance plan, including a project completion schedule where applicable, no later than December 31, 1986.
- c) The owner or operator of an emission source subject to Section 215.125(c) shall submit a compliance plan, including a project completion schedule within 90 days after the date of redesignation, but in no case later than December 31, 1986.
- d) Unless the submitted compliance plan or schedule is disapproved by the Agency, the owner or operator of a facility or emission source subject to the rules specified in subsections (a), (b) or (c) may operate the emission source according to the plan and schedule as submitted.
- e) The plan and schedule shall meet the requirements of 35 Ill. Adm. Code 201.241 including specific interim dates as required in 35 Ill. Adm. Code 201.242.

(Source: Adopted at 7 Ill. Reg. 1244, effective January 21, 1983)

Section 215.127 Emissions Testing

- a) Any tests of organic material emissions, including tests conducted to determine control equipment efficiency, shall be conducted in accordance with the methods and procedures specified in Section 215.102.
- b) Upon a reasonable request by the Agency, the owner or operator of an organic material emission source required to comply with this Subpart shall conduct emissions testing, at such person's own expense, to demonstrate compliance.

- 955 c) A person planning to conduct an organic material emission test to demonstrate
956 compliance with this Subpart shall notify the Agency of that intent not less than
957 30 days before the planned initiation of the tests so the Agency may observe the
958 test.

959
960 (Source: Added at 14 Ill. Reg. 9173, effective May 23, 1990)

961
962 **Section 215.128 Measurement of Seal Gaps**

- 963
964 a) Any measurements of secondary seal gaps shall be conducted in accordance with
965 the methods and procedures specified in 40 CFR 60, Subpart Kb incorporated by
966 reference in Section 215.105.
967
968 b) A person planning to conduct a measurement of seal gaps to demonstrate
969 compliance with this Subpart shall notify the Agency of that intent not less than
970 30 days before the planned performance of the tests so the Agency may observe
971 the test.

972
973 (Source: Added at 14 Ill. Reg. 9173, effective May 23, 1990)

974
975 **SUBPART C: ORGANIC EMISSIONS FROM**
976 **MISCELLANEOUS EQUIPMENT**

977
978 **Section 215.141 Separation Operations**

- 979
980 a) No person shall use any single or multiple compartment effluent water separator
981 which receives effluent water containing 757 l/day (200 gal/day) or more of
982 organic material from any equipment processing, refining, treating, storing or
983 handling organic material unless such effluent water separator is equipped with
984 air pollution control equipment capable of reducing by 85 percent or more the
985 uncontrolled organic material emitted to the atmosphere. Exception: If no odor
986 nuisance exists the limitations of this subparagraph shall not apply if the vapor
987 pressure of the organic material is below 17.24 kPa (2.5 psia) at 294.3 K (70 F).
988
989 b) Subsection (a) shall not apply to water and crude oil separation in the production
990 of Illinois crude oil, if the vapor pressure of such crude oil is less than 34.5 kPa (5
991 psia).

992
993 (Source: Amended at 12 Ill. Reg. 815, effective December 24, 1987)

994
995 **Section 215.142 Pumps and Compressors**

996
997 No person shall cause or allow the discharge of more than 32.8 ml (2 cu in) of volatile organic
998 liquid with vapor pressure of 17.24 kPa (2.5 psia) or greater at 294.3 K (70 F) into the
999 atmosphere from any pump or compressor in any 15 minute period at standard conditions.

1001 (Source: Amended at 12 Ill. Reg. 815, effective December 24, 1987)

1002

1003 **Section 215.143 Vapor Blowdown**

1004

1005 No person shall cause or allow the emission of organic material into the atmosphere from any
1006 vapor blowdown system or any safety relief valve, except such safety relief valves not capable of
1007 causing an excessive release, unless such emission is controlled:

1008

1009 a) To 10 ppm equivalent methane (molecular weight 16.0) or less; or,

1010

1011 b) By combustion in a smokeless flare; or,

1012

1013 c) By other air pollution control equipment approved by the Agency according to the
1014 provisions of 35 Ill. Adm. Code 201.

1015

1016 **Section 215.144 Safety Relief Valves**

1017

1018 Section 215.143 shall not apply to any set of unregulated safety relief valves capable of causing
1019 excessive releases, provided the owner or operator thereof, by October 1, 1972, provides the
1020 Agency with the following:

1021

1022 a) A historical record of each such set (or, if such records are unavailable, of similar
1023 sets which, by virtue of operation under similar circumstances, may reasonably be
1024 presumed to have the same or greater frequency of excessive releases) for a three-
1025 year period immediately preceding October 1, 1972, indicating:

1026

1027 1) Dates on which excessive releases occurred from each such set; and,

1028

1029 2) Duration in minutes of each such excessive release; and,

1030

1031 3) Quantities (in pounds) of mercaptans and/or hydrogen sulfide emitted into
1032 the atmosphere during each such excessive release.

1033

1034 b) Proof, using such three-year historical records, that no excessive release is likely
1035 to occur from any such set either alone or in combination with such excessive
1036 releases from other sets owned or operated by the same person and located within
1037 a ten-mile radius from the center point of any such set, more frequently than 3
1038 times in any 12 month period; and,

1039

1040 c) Accurate maintenance records pursuant to the requirements of subsection (a); and,

1041

1042 d) Proof, at three-year intervals, using such three-year historical records, that such
1043 set conforms to the requirements of subsection (c).

1044

1045 (Source: Amended at 3 Ill. Reg. 30, p. 124, effective July 28, 1979)

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SUBPART E: SOLVENT CLEANING

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Section 215.181 Solvent Cleaning in General

The requirements of Sections 215.182 through 215.184 shall not apply:

- a) To sources whose emissions of volatile organic material do not exceed 6.8 kg (15 lbs) in any one day, nor 1.4 kg (3 lbs) in any one hour; or
- b) To sources used exclusively for chemical or physical analysis or determination of product quality and commercial acceptance, provided that:
 - 1) The operation of the sources is not an integral part of the production process;
 - 2) The emissions from the source do not exceed 363 kg (800 lbs) in any calendar month; and,
 - 3) The exemption is approved in writing by the Agency.

(Source: Amended at 3 Ill. Reg. 30, p. 124, effective July 28, 1979)

Section 215.182 Cold Cleaning

- a) Operating Procedures: No person shall operate a cold cleaning degreaser unless:
 - 1) Waste solvent is stored in covered containers only and not disposed of in such a manner that more than 20 percent of the waste solvent (by weight) is allowed to evaporate into the atmosphere;
 - 2) The cover of the degreaser is closed when parts are not being handled; and
 - 3) Parts are drained until dripping ceases.
- b) Equipment Requirements: No person shall operate a cold cleaning degreaser unless:
 - 1) The degreaser is equipped with a cover which is closed whenever parts are not being handled in the cleaner. The cover shall be designed to be easily operated with one hand or with the mechanical assistance of springs, counterweights, or a powered system if:
 - A) The solvent vapor pressure is greater than 2 kPa (15 mmHg or 0.3 psi) measured at 38° C (100° F);
 - B) The solvent is agitated; or

- 1093
1094 C) The solvent is heated above ambient room temperature;
1095
1096 2) The degreaser is equipped with a facility for draining cleaned parts. The
1097 drainage facility shall be constructed so that parts are enclosed under the
1098 cover while draining unless:
1099
1100 A) The solvent vapor pressure is less than 4.3 kPa (32 mmHg or 0.6
1101 psi) measured at 38° C (100° F); or
1102
1103 B) An internal drainage facility cannot be fitted into the cleaning
1104 system, in which case the drainage facility may be external.
1105
1106 3) The degreaser is equipped with one of the following control devices if the
1107 vapor pressure of the solvent is greater than 4.3 kPa (32 mmHg or 0.6 psi)
1108 measured at 38°C (100¼ F) or if the solvent is heated above 50° C (120°
1109 F) or its boiling point:
1110
1111 A) A freeboard height of 7/10 of the inside width of the tank or 91 cm
1112 (36 in), whichever is less; or
1113
1114 B) Any other equipment or system of equivalent emission control as
1115 approved by the Agency. Such a system may include a water
1116 cover, refrigerated chiller or carbon adsorber.
1117
1118 4) A permanent conspicuous label summarizing the operating procedure is
1119 affixed to the degreaser; and
1120
1121 5) If a solvent spray is used, the degreaser is equipped with a solid fluid
1122 stream spray, rather than a fine, atomized or shower spray.
1123

1124 **Section 215.183 Open Top Vapor Degreasing**
1125

- 1126 a) Operating Requirements: No person shall operate an open top vapor degreaser
1127 unless:
1128
1129 1) The cover of the degreaser is closed when workloads are not being
1130 processed through the degreaser;
1131
1132 2) Solvent carryout emissions are minimized by:
1133
1134 A) Racking parts to allow complete drainage;
1135
1136 B) Moving parts in and out of the degreaser at less than 3.3 m/min (11
1137 ft/min);
1138

- 1139 C) Holding the parts in the vapor zone until condensation ceases;
1140
1141 D) Tipping out any pools of solvent on the cleaned parts before
1142 removal from the vapor zone; and,
1143
1144 E) Allowing parts to dry within the degreaser until visually dry.
1145
1146 3) Porous or absorbent materials, such as cloth, leather, wood or rope are not
1147 degreased;
1148
1149 4) Less than half of the degreaser's open top area is occupied with a
1150 workload;
1151
1152 5) The degreaser is not loaded to the point where the vapor level would drop
1153 more than 10 cm (4 in) when the workload is removed from the vapor
1154 zone;
1155
1156 6) Spraying is done below the vapor level only;
1157
1158 7) Solvent leaks are repaired immediately;
1159
1160 8) Waste solvent is stored in covered containers only and not disposed of in
1161 such a manner that more than 20% of the waste solvent (by weight) is
1162 allowed to evaporate into the atmosphere;
1163
1164 9) Water is not visually detectable in solvent exiting from the water
1165 separator; and
1166
1167 10) Exhaust ventilation exceeding 20 cubic meters per minute per square
1168 meter (65 cubic feet per minute per square foot) of degreaser open area is
1169 not used, unless necessary to meet the requirements of the Occupational
1170 Safety and Health Act (29 [USC U.S.C.](#) Section 651 et seq.)
1171
1172 b) Equipment Requirements: No person shall operate an open top vapor degreaser
1173 unless:
1174
1175 1) The degreaser is equipped with a cover designed to open and close easily
1176 without disturbing the vapor zone;
1177
1178 2) The degreaser is equipped with the following switches:
1179
1180 A) A device which shuts off the sump heat source if the amount of
1181 condenser coolant is not sufficient to maintain the designed vapor
1182 level; and
1183
1184 B) A device which shuts off the spray pump if the vapor level drops

- 1185 more than 10 cm (4 in) below the bottom condenser coil; and
1186
1187 C) A device which shuts off the sump heat source when the vapor
1188 level exceeds the design level.
1189
1190 3) A permanent conspicuous label summarizing the operating procedure is
1191 affixed to the degreaser;
1192
1193 4) The degreaser is equipped with one of the following devices:
1194
1195 A) A freeboard height of 3/4 of the inside width of the degreaser tank
1196 or 91 cm (36 in), whichever is less; and if the degreaser opening is
1197 greater than 1 square meter (10.8 square feet), a powered or
1198 mechanically assisted cover; or
1199
1200 B) Any other equipment or system of equivalent emission control as
1201 approved by the Agency. Such equipment or system may include a
1202 refrigerated chiller, an enclosed design or a carbon adsorption
1203 system.
1204

1205 (Source: Amended at 3 Ill. Reg. 30, p. 124, effective July 28, 1979)
1206

1207 **Section 215.184 Conveyorized Degreasing**
1208

- 1209 a) Operating Requirements: No person shall operate a conveyorized degreaser
1210 unless:
1211
1212 1) Exhaust ventilation exceeding 20 cubic meters per minute per square
1213 meter (65 cubic feet per minute per square foot) of area of loading and
1214 unloading opening is not used, unless necessary to meet the requirements
1215 of the Occupational Safety and Health Act (29 ~~U.S.C.~~USC Section 651 et
1216 seq.)
1217
1218 2) Solvent carryout emissions are minimized by:
1219
1220 A) Racking parts for best drainage; and
1221
1222 B) Maintaining the vertical conveyor speed at less than 3.3 m/min (11
1223 ft/min);
1224
1225 3) Waste solvent is stored in covered containers only and not disposed of in
1226 such a manner that more than 20% of the waste solvent (by weight) is
1227 allowed to evaporate into the atmosphere;
1228
1229 4) Solvent leaks are repaired immediately;
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- 5) Water is not visually detectable in solvent exiting from the water separator; and
 - 6) Downtime covers are placed over entrances and exits of conveyORIZED degreasers immediately after the conveyors and exhausts are shut down and not removed until just before startup.
- b) Equipment Requirements: No person shall operate a conveyORIZED degreaser unless:
- 1) The degreaser is equipped with a drying tunnel, rotating (tumbling) basket or other equipment sufficient to prevent cleaned parts from carrying out solvent liquid or vapor;
 - 2) The degreaser is equipped with the following switches:
 - A) A device which shuts off the sump heat source if the amount of condenser coolant is not sufficient to maintain the designed vapor level;
 - B) A device which shuts off the spray pump or the conveyor if the vapor level drops more than 10 cm (4 in) below the bottom condenser coil; and
 - C) A device which shuts off the sump heat source when the vapor level exceeds the design level;
 - 3) The degreaser is equipped with openings for entrances and exits that silhouette workloads so that the average clearance between the parts and the edge of the degreaser opening is less than 10 cm (4 in) or less than 10 percent of the width of the opening;
 - 4) The degreaser is equipped with downtime covers for closing off entrances and exits when the degreaser is shut down; and
 - 5) The degreaser is equipped with one of the following control devices, if the air/vapor interface is larger than 2.0 square meters (21.6 square feet):
 - A) A carbon adsorption system with ventilation greater than or equal to 15 cubic meters per minute per square meter (50 cubic feet per minute per square foot) of air/vapor area (when downtime covers are open, and exhausting less than 25 ppm of solvent by volume averaged over a complete adsorption cycle; or
 - B) Any other equipment or system of equivalent emission control as approved by the Agency. Such equipment or system may include a

1277 refrigerated chiller.

1278

1279 (Source: Amended at 3 Ill. Reg. 30, p. 124, effective July 28, 1979)

1280

1281 **Section 215.185 Compliance Plan**

1282

1283 ~~a) Solvent cleaning and degreasing were subject to certain compliance dates which~~
1284 ~~are summarized in Appendix C. Compliance programs were required under 35~~
1285 ~~Ill. Adm. Code 201, Subpart H.~~

1286

1287 ~~b) Cold cleaning degreasers were not required to submit a compliance plan or project~~
1288 ~~completion schedule under 35 Ill. Adm. Code 201, Subpart H.~~

1289

1290 (Source: Amended at 3 Ill. Reg. 30, p. 124, effective July 28, 1979)

1291

1292 **SUBPART F: COATING OPERATIONS**

1293

1294 **Section 215.202 Compliance Schedules**

1295

1296 ~~Owners or operators of coating lines were required to take certain actions to achieve compliance~~
1297 ~~which are set forth in Appendix C.~~

1298

1299 (Source: Amended at 3 Ill. Reg. 30, p. 124, effective July 28, 1979)

1300

1301 **Section 215.204 Emission Limitations for Manufacturing Plants**

1302

1303 No owner or operator of a coating line shall cause or allow the emission of volatile organic
1304 material to exceed the following limitations on coating materials, excluding water and any
1305 compounds which are specifically exempted from the definition of volatile organic material
1306 pursuant to this Part, delivered to the coating applicator:

1307

1308 a) Automobile or Light Duty Truck Manufacturing Plants

1309

1)	In Boone County	<u>kg/l</u>	<u>lb/gal</u>
	Prime coat	0.14	(1.2)
	Prime surfacer coat	0.34	(2.8)
	Top coat	0.34	(2.8)

1310

1311 (BOARD NOTE: The top coat limitation shall not apply if by December
1312 31, 1984 a limitation of 0.43 kg/l (3.6 lb/gal) is achieved and the top coat
1313 is applied with a transfer efficiency of not less than 55 percent and by
1314 December 31, 1986, the top coat is applied with a transfer efficiency of
1315 not less than 65 percent)

1316

	Final repair coat	0.58	(4.8)
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1317

1318

2)	In the remaining counties	<u>kg/l</u>	<u>lb/gal</u>
	Prime coat	0.14	(1.2)
	Prime surfacer coat	0.34	(2.8)
	Top coat	0.34	(2.8)
	Final repair coat	0.58	(4.8)

b)	Can Coating	<u>kg/l</u>	<u>lb/gal</u>
1)	Sheet basecoat and Overvarnish	0.34	(2.8)
2)	Exterior basecoat and overvarnish	0.34	(2.8)
3)	Interior body spray coat	0.51	(4.2)
4)	Exterior end coat	0.51	(4.2)
5)	Side seam spray coat	0.66	(5.5)
6)	End sealing compound coat	0.44	(3.7)
c)	Paper Coating	<u>kg/l</u>	<u>lb/gal</u>
1)	All paper coating except as provided in subsection (c)(2)	0.35	(2.9)
2)	Specialty High Gloss Catalyzed Coating		

1319

1320

1321

1322

(BOARD NOTE: These limitations shall not apply to equipment used for both printing and paper coating)

d)	Coil Coating	0.31	(2.6)
e)	Fabric Coating	0.35	(2.9)
f)	Vinyl Coating	0.45	(3.8)
g)	Metal Furniture Coating	0.36	(3.0)
h)	Large Appliance Coating	0.34	(2.8)

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1328

(BOARD NOTE: The limitation shall not apply to the use of quick-drying lacquers for repair of scratches and nicks that occur during assembly, provided that the volume of coating does not exceed 0.95 liters (1 quart) in any one eight-hour period)

i)	Magnet Wire Coating	<u>kg/l</u>	<u>lb/gal</u>
		0.20	(1.7)

j)	Miscellaneous Metal Parts and Products Coating		
1)	Clear coating	0.52	(4.3)
2)	Air dried coating	0.42	(3.5)
3)	Extreme performance coating	0.42	(3.5)
4)	Power driven fastener coating		
	A) Nail Coating		Refer to limits in (j)(1), (2), (3) and (5)
	B) Staple, brad and finish nail unit fabrication bonding coating	0.64	(5.3)
	C) Staple, brad and finish nail incremental fabrication lubricity coating	0.64	(5.3)
	D) Staple, brad and finish nail incremental fabrication withdrawal resistance coating	0.60	(5.0)
	E) Staple, brad and finish nail unit fabrication coating	0.64	(5.3)
5)	All other coatings	0.36	(3.0)
	(BOARD NOTE: The least restrictive limitation shall apply if more than one limitation pertains to a specific coating)		

1329
1330
1331
1332

k)	Heavy Off-highway Vehicle Products	<u>kg/l</u>	<u>lb/gal</u>
1)	In Macoupin County		
	Extreme performance prime coat	0.42	(3.5)
	Extreme performance top coat – air dried	0.42	(3.5)
	Final repair coat – air dried	0.42	(3.5)
	High temperature aluminum coating used at existing diesel-electric locomotive manufacturing plants	0.72	(6.0)
2)	In the remaining counties		
	Extreme performance prime coat	0.42	(3.5)
	Extreme performance top coat – air dried	0.52	(4.3)

	Final repair coat – air dried	0.58	(4.8)
1)	Wood Furniture Coating	<u>kg/l</u>	<u>lb/gal</u>
1)	Clear topcoat	0.67	(5.6)
2)	Opaque stain	0.56	(4.7)
3)	Pigmented coat	0.60	(5.0)
4)	Repair coat	0.67	(5.6)
5)	Sealer	0.67	(5.6)
6)	Semi-transparent stain	0.79	(6.6)
7)	Wash coat	0.73	(6.1)

(BOARD NOTE: The repair coat has overall transfer efficiency of 30 percent; all others have an overall transfer efficiency of 65 percent.)

(Source: Amended at 22 Ill. Reg. 11427, effective June 19, 1998)

Section 215.205 Alternative Emission Limitations

Owners or operators of coating lines subject to Section 215.204 may comply with this Section, rather than with Section 215.204. The methods or procedures used to determine emissions of organic material under this Section shall be approved by the Agency. Emissions of volatile organic material from emission units subject to Section 215.204, are allowable, notwithstanding the limitations in Section 215.204, if:

- a) For those emission units subject to Section 215.204(b), the emissions are controlled by an afterburner system which provides:
 - 1) 75% reduction in the overall emissions of volatile organic material from the coating line, and
 - 2) Oxidation to carbon dioxide and water of 90% of the nonmethane volatile organic material (measured as total combustible carbon) which enters the afterburner.
- b) For all other emission units subject to Section 215.204, the emissions are controlled by an afterburner system which provides:
 - 1) 81% reduction in the overall emissions of volatile organic material from the coating line, and
 - 2) Oxidation to carbon dioxide and water of 90% of the nonmethane volatile

1364 organic material (measured at total combustible carbon) which enters the
1365 afterburner.

1366
1367 c) The system used to control such emissions is demonstrated to have control
1368 efficiency equivalent to or greater than that provided under the applicable
1369 provision of Section 215.204 or subsection (a) or (b).

1370
1371 (Source: Amended at 22 Ill. Reg. 11427, effective June 19, 1998)

1372
1373 **Section 215.206 Exemptions from Emission Limitations**

1374
1375 a) The limitations of this Subpart shall not apply to:

1376
1377 1) Coating plants in which emissions of volatile organic material as limited
1378 by the operating permit will not exceed 22.7 Mg/year (25 T/year), in the
1379 absence of air pollution control equipment; or

1380
1381 2) Coating plants in which the total coating usage does not exceed 9,463 l/yr
1382 (2,500 gal/yr); or

1383
1384 3) Sources used exclusively for chemical or physical analysis or
1385 determination of product quality and commercial acceptance provided
1386 that:

1387
1388 A) The operation of the source is not an integral part of the production
1389 process;

1390
1391 B) The emissions from the source do not exceed 363 kg (800 lbs) in
1392 any calendar month; and

1393
1394 C) The exemption is approved in writing by the Agency.

1395
1396 b) The limitations of this Subpart shall not apply to touch-up and repair coatings
1397 used by a coating source described in Section 215.204(b), (d), (f), (g), (i), and (j)
1398 of this Subpart; provided that the source-wide volume of such coatings does not
1399 exceed 0.95 l (1 quart) per eight-hour period or exceed 209 l/yr (55 gal/yr) for
1400 any rolling twelve-month period. Recordkeeping and reporting for touch-up and
1401 repair coatings shall be consistent with subsection (c) of this Section.

1402
1403 c) The owner or operator of a coating line or a group of coating lines using touch-up
1404 and repair coatings that are exempted from the limitations of Sections 215.204(b),
1405 (d), (f), (g), (i), and (j) of this Subpart because of the provisions of subsection (b)
1406 of this Section shall:

1407
1408 1) Collect and record the name, identification number, and volume of each
1409 touch-up and repair coating, as applied on each coating line, per eight-

- 1410 hour period and per month;
1411
1412 2) Perform calculations on a daily basis, and maintain at the source, records
1413 of such calculations of the combined volume of touch-up and repair
1414 coatings used source-wide for each eight-hour period;
1415
1416 3) Perform calculations on a monthly basis, and maintain at the source,
1417 records of such calculations of the combined volume of touch-up and
1418 repair coatings used source-wide for the month and the rolling twelve-
1419 month period;
1420
1421 4) Prepare and maintain at the source an annual summary of the information
1422 required to be compiled pursuant to subsection (b) of this Section on or
1423 before January 31 of the following year;
1424
1425 5) Maintain at the source for a minimum of three years all records required to
1426 be kept under this subsection (c) and make such records available to the
1427 Agency upon request; and
1428
1429 6) Notify the Agency in writing if the use of touch-up and repair coatings at
1430 the source ever exceeds a volume of 0.95 l (1 quart) per eight-hour period
1431 or exceeds 209 l/yr (55 gal/yr) for any rolling twelve-month period within
1432 30 days after such ~~exceedence~~exceedance. Such notification shall include
1433 a copy of any records of such ~~exceedence~~exceedance.
1434
1435 d) "Touch-up and repair coatings" means, for purposes of this Section, any coating
1436 used to cover minor scratches and nicks that occur during manufacturing and
1437 assembly processes.
1438
1439 e) Notwithstanding the limitations of Section 215.204(k)(2), the John Deere
1440 Harvester-Moline Works of Deere & Company, Moline, Illinois, shall not cause
1441 or permit the emission of volatile organic material from its existing green and
1442 yellow ~~flowcoating floecoating~~ operations to exceed a weekly average of 6.2
1443 lb/gal.
1444

1445 (Source: Amended at 22 Ill. Reg. 11427, effective June 19, 1998)
1446

1447 **Section 215.207 Compliance by Aggregation of Emission Units**
1448

- 1449 a) Owners or operators of coating lines subject to Section 215.204 may comply with
1450 this Section rather than with Section 215.204. The methods or procedures used to
1451 determine emissions of volatile organic material under this Section shall be
1452 approved by the Agency in accordance with 35 Ill. Adm. 201. Emissions of
1453 volatile organic material from sources subject to Section 215.204 are allowable,
1454 notwithstanding the limitations in Section 215.204, if the combined actual
1455 emissions from selected coating lines at the coating plant, but not including

1456 coating lines or other emission sources constructed or modified after July 1, 1979,
 1457 is less than or equal to the combined allowable emissions as determined by the
 1458 following equations:
 1459

$$E_{ALL} = \sum_{j=1}^m \sum_{i=1}^n (A_i B_i)_j$$

1460

$$E_{ACT} = \sum_{j=1}^m \sum_{i=1}^n (C_i B_i (1 - D_i))_j$$

1461

1462

1463

b) A_i shall be determined by the following formula:

$$A_i = \frac{R_i}{1 - \frac{R_i}{S_i}}$$

1464

1465

1466

c) As used in subsection (a) and (b), symbols mean the following:

- E_{ALL} = the allowable volatile organic material emissions from the coating plant in kg/day (lb/day).
- A_i = the allowable emission limit for a coating pursuant to Section 215.204 expressed in kg/l (lbs/gal) of coating solids.
- B_i = the volume of coating solids in 1/day (gal/day) in a coating as delivered to the coating line.
- m = the number of coating lines included in the combined emission rate.
- n = the number of different coatings delivered to a coating line.
- E_{ACT} = the actual volatile organic material emissions from the coating plant in kg/day (lbs/day).
- C_i = the weight of volatile organic material per volume of solids in kg/l (lb/gal) for a coating.
- D_i = the control efficiency by which emissions of volatile organic material from a coating are reduced through the use of control equipment.
- R_i = the applicable organic material emission limit pursuant to Section 215.204, for a coating in kg/l (lb/gal).
- S_i = the density of the volatile organic material in a coating in kg/l (lb/gal).

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d) The owner or operator of the coating plant shall maintain records of the density of the volatile organic material in each coating, the quantity and volatile organic material and solids content of each coating applied and the line to which coating is applied, in such a manner so as to demonstrate continuing compliance with the combined allowable emissions.

e) Except for emission units subject to Section 215.301 or 215.302, credits from

1475 emission units at the coating plant that are subject to this Part, other than coating
1476 lines, may be given to the extent that emissions are reduced from the allowable
1477 emission limits for such emission units contained in either this Part or any
1478 existing operating permit, whichever limit is less.
1479

1480 (Source: Amended at 22 Ill. Reg. 11427, effective June 19, 1998)
1481

1482 **Section 215.208 Testing Methods for Volatile Organic Material Content**
1483

1484 a) The VOM content of coatings shall be determined by Method 24, 40 CFR Part 60,
1485 Appendix A, incorporated by reference in Section 215.105 except for glues and
1486 adhesive coatings, two component reactive coatings forming volatile reaction
1487 products, coatings requiring energy other than heat to initiate curing, and coatings
1488 requiring high temperature catalysis for curing, providing the person proposing
1489 testing of the material submits to the Agency proof that the Method 24 results
1490 would not be representative and proof that a proposed alternative test method
1491 gives representative, accurate test results. For printing inks, the volatile organic
1492 material content shall be determined by Method 24A, 40 CFR Part 60, Appendix
1493 A incorporated by reference in Section 215.105. Any alternate test method must
1494 be approved by the Agency which shall consider data comparing the performance
1495 of the proposed alternative to the performance of the approved test method(s). If
1496 the Agency determines that such data demonstrates that the proposed alternative
1497 will achieve results equivalent to the approved test method(s), the Agency shall
1498 approve the proposed alternative.
1499

1500 b) Transfer efficiency shall be determined by a method, procedure or standard
1501 approved by the USEPA, under the applicable new source performance standard
1502 or until such time as USEPA has approved and published such a method,
1503 procedure or standard, by any appropriate method, procedure or standard
1504 approved by the Agency.
1505

1506 (Source: Amended at 14 Ill. Reg. 9173, effective May 23, 1990)
1507

1508 **Section 215.209 Exemption from General Rule on Use of Organic Material**
1509

1510 No coating line subject to the limitations of Section 215.204 is required to meet Sections 215.301
1511 or 215.302 after the date by which the coating line is required to meet Section 215.204.
1512

1513 (Source: Amended at 3 Ill. Reg. 30, p. 124, effective July 28, 1979)
1514

1515 **Section 215.210 Alternative Compliance Schedule**
1516

1517 ~~The owner or operator of coating lines subject to Section 215.204(d)(2) may in lieu of~~
1518 ~~compliance with Section 215.211 demonstrate compliance through the use of a low solvent~~
1519 ~~coating technology by taking the following actions:~~
1520

1521 a) ~~Submit to the Agency a compliance plan, including a project completion~~
1522 ~~schedule, that meets the requirements of Section 201.241 on or before August 19,~~
1523 ~~1983; and~~

1524
1525 b) ~~Meet the following increments of progress:~~

1526
1527 1) ~~Submit to the Agency by July 1, 1984 and every six months thereafter a~~
1528 ~~report describing in detail the progress made in the development,~~
1529 ~~application testing, product quality, customer acceptance and United~~
1530 ~~States Food and Drug Administration or government agency approval of~~
1531 ~~the low solvent coating technology;~~

1532
1533 2) ~~Initiate process modifications to allow the use of low solvent coatings as~~
1534 ~~soon as coatings meeting Board requirements become commercially~~
1535 ~~available for production use; and~~

1536
1537 3) ~~Achieve final compliance as expeditiously as possible but no later than~~
1538 ~~December 31, 1986.~~

1539
1540 (Source: Amended at 7 Ill. Reg. 1244, effective January 21, 1983)

1541

1542 **Section 215.211 Compliance Dates and Geographical Areas**

1543

1544 a) Except as otherwise stated in subsection (b), every owner or operator of an
1545 emission unit subject to Section 215.204(j), (k), (l), or (m) shall comply with
1546 those subsections in accordance with the following dates:

1547

1548 1) For Section 215.204(j) and (k)(2) Extreme performance prime coat and
1549 Final repair coat - air dried, by December 31, 1983.

1550

1551 2) For Section 215.204(k)(l) and (m), by December 31, 1987.

1552

1553 3) ~~For Section 215.204(k)(2) Extreme performance top coat - air dried, in~~
1554 ~~accordance with Section 215.210.~~

1555

1556 4) ~~For Section 215.204(l), by December 31, 1985.~~

1557

1558 b) If an emission unit is not located in one of the nonattainment counties or counties
1559 contiguous to nonattainment counties listed below, the owner or operator of the
1560 emission unit shall comply with the requirements of Section 215.204(j), (k) or (l)
1561 no later than December 31, 1987:

1562

Bond	Madison
Clinton	McHenry
Cook	Monroe
DeKalb	Montgomery

DuPage	Morgan
Franklin	Pope
Greene	Randolph
Jackson	Saline
Jersey	Sangamon
Johnson	St. Clair
Kane	Union
Kendall	Washington
Lake	Will
Macoupin	Williamson

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(BOARD NOTE: Counties are designated as attainment or nonattainment for ozone by the United States Environmental Protection Agency (USEPA). The USEPA noted in its redesignation rulemaking, that it will publish a rulemaking notice on Williamson County's attainment status. (45 Fed. Reg. 21949, May 16, 1983.) Should Williamson County be redesignated as attainment prior to October 31, 1985, it and the counties contiguous to it will be considered deleted from the above list.)

- c) Notwithstanding subsection (b), if any county is designated as nonattainment by the USEPA at any time subsequent to the effective date of this rule, the owner or operator of an emission source located in that county or any county contiguous to that county who would otherwise be subject to the compliance date in subsection (b) shall comply with the requirements of Section 215.204(j), (k) or (l) within one year from the date of redesignation but in no case later than December 31, 1987.

(Source: Amended at 22 Ill. Reg. 11427, effective June 19, 1998)

Section 215.212 Compliance Plan

- ~~a) The owner or operator of an emission unit subject to Section 215.211(a)(1) or (3) shall submit to the Agency a compliance plan on or before August 19, 1983.~~
- ~~b) The owner or operator of an emission unit subject to Section 215.211(a)(4) shall submit to the Agency a compliance plan on or before October 31, 1985.~~
- ~~c) The owner or operator of an emission unit subject to Section 215.211(b) shall submit to the Agency a compliance plan, no later than December 31, 1986.~~
- ~~d) The owner or operator of an emission unit subject to Section 215.211(c) shall submit a compliance plan within 90 days after the date of redesignation, but in no case later than December 31, 1986.~~
- ~~e) The owner or operator of an emission unit subject to Section 215.211(c) shall not be required to submit a compliance plan if redesignation occurs after December 31, 1986.~~

1599 ~~f) — The plan and schedule shall meet the requirements of 35 Ill. Adm. Code 201.~~

1600
1601 (Source: Amended at 22 Ill. Reg. 11427, effective June 19, 1998)

1602
1603 **Section 215.213 Special Requirements for Compliance Plan**

1604
1605 ~~For sources subject to Sections 215.204 through 215.209, an approvable compliance plan shall~~
1606 ~~include:~~

1607
1608 ~~a) — A complete description of each coating line which is subject to an emission~~
1609 ~~limitation in Sections 215.204 through 215.209;~~

1610
1611 ~~b) — Quantification of the allowable emissions from the coating plant determined~~
1612 ~~under Section 215.207 where applicable; and,~~

1613
1614 ~~c) — A description of the procedures and methods used to determine the emissions of~~
1615 ~~volatile organic material including a method of inventory, record keeping and~~
1616 ~~emission calculation or measurement which will be used to demonstrate~~
1617 ~~compliance with the allowable plantwide emission limitation.~~

1618
1619 (Source: Adopted at 3 Ill. Reg. 30, p. 124, effective July 28, 1979)

1620
1621 **Section 215.214 Roadmaster Emissions Limitations (Repealed)**

1622
1623 (Source: Repealed at 22 Ill. Reg. 11427, effective June 19, 1998)

1624
1625 **Section 215.215 DMI Emissions Limitations**

1626
1627 ~~Notwithstanding the limitation of Section 215.204(j)(3), the DMI, Inc., Goodfield, Illinois plant~~
1628 ~~shall not cause or permit the emission of volatile organic material from its existing dip tank and~~
1629 ~~bake oven as part of the paint deck operations, to exceed a daily average of 4.2 lb/gal in the dip~~
1630 ~~top coat application tank, and a 30-day rolling average of 61 lb/day for the dip tank make-up~~
1631 ~~solvent addition; DMI, Inc. shall fulfill all of the following conditions:~~

1632
1633 ~~(a) — DMI, Inc. shall contact at least three (3) paint vendors each year in a continuing~~
1634 ~~search for a compliant coating that it can successfully use in its existing paint~~
1635 ~~deck operations, including any paint vendors suggested by the Agency in a~~
1636 ~~writing delivered to DMI, Inc. by certified mail;~~

1637
1638 ~~(b) — If any vendor provides DMI, Inc. with laboratory test results which demonstrate~~
1639 ~~that DMI, Inc. may be able to use the vendor's paint in its existing paint deck~~
1640 ~~operations as a substitute for the existing paint, DMI, Inc. will conduct production~~
1641 ~~tests of that paint;~~

1642
1643 ~~(c) — DMI, Inc. will submit a report to the Agency by March 1 of each year that~~
1644 ~~includes a summary of its efforts during the preceding calendar year, as those~~

1645 ~~efforts relate to DMI, Inc.'s compliance with the foregoing conditions contained in~~
1646 ~~subsections (a) and (b), above;~~

1647
1648 ~~(d) — If DMI, Inc. locates a compliant paint that it can successfully use in its existing~~
1649 ~~paint deck operations, and the net annual expense of using the compliant paint is~~
1650 ~~not more than ten percent (10%) greater than the then current net annual expense~~
1651 ~~incurred in the existing painting process, DMI, Inc. shall convert its present paint~~
1652 ~~deck operations to the use of that paint within 180 days after the final successful~~
1653 ~~testing of such a paint; and~~

1654
1655 ~~(e) — This Section shall expire within 180 days after final successful testing of a~~
1656 ~~compliant paint in accordance with subsection (d) above, or on January 1, 2000,~~
1657 ~~whichever is earlier, at which time DMI, Inc. shall comply with the provisions~~
1658 ~~that generally apply to VOM emissions.~~

1659
1660 (Source: Added at 16 Ill. Reg. 3132, effective February 18, 1992)

1661
1662 **SUBPART H: SPECIAL LIMITATIONS FOR SOURCES IN MAJOR URBANIZED AREAS**
1663 **WHICH**
1664 **ARE NONATTAINMENT FOR OZONE**

1665
1666 **Section 215.240 Applicability**

1667
1668 Notwithstanding any other limitations or exceptions in this Part 215, the special requirements of
1669 this Subpart shall apply to the affected sources in the following counties; Cook, DuPage, Kane,
1670 Lake, Macoupin, Madison, McHenry, Monroe, St. Clair, and Will.

1671
1672 (Source: Added in R85-21(A) at 11 Ill. Reg. 11770, effective June 29, 1987)

1673
1674 **Section 215.241 External Floating Roofs**

1675
1676 The requirements of subsection 215.124(a) shall not apply to any stationary storage tank
1677 equipped with an external floating roof:

- 1678
1679 a) Exempted under Section 215.123(a)(2) through (a)(6);
1680
1681 b) Of welded construction equipped with a metallic-type shoe seal having a
1682 secondary seal from the top of the shoe seal to the tank wall (shoe-mounted
1683 secondary seal);
1684
1685 c) Of welded construction equipped with a metallic type shoe seal, a liquid-mounted
1686 foam seal, a liquid-mounted liquid-filled-type seal, or other closure device of
1687 equivalent control efficiency approved by the Agency in which a petroleum liquid
1688 with a true vapor pressure less than 27.6 kPa (4.0 psia) at 294.3° K (70° F) is
1689 stored; or
1690

1691 d) Used to store crude oil with a pour point of 50° F or higher as determined by
1692 ASTM Standard D97-66 incorporated by reference in Section 215.105.

1693

1694 (Source: Amended at 14 Ill. Reg. 9173, effective May 23, 1990)

1695

1696 **Section 215.245 Flexographic and Rotogravure Printing**

1697

1698 a) The limitations of Subpart P shall apply unless the facility's aggregate
1699 uncontrolled rotogravure and/or flexographic printing press emissions of volatile
1700 organic material are limited by operating permit conditions to 90.7 Mg (100 tons)
1701 per year or less in the absence of air pollution control equipment or whose actual
1702 emissions in the absence of air pollution control equipment would be less than or
1703 equal to 90.7 Mg (100 tons) per year when averaged over the preceding three
1704 calendar years.

1705

1706 b) If an owner or operator of a packaging rotogravure printing press proposes to
1707 comply with the limitations of Section 215.401 pursuant to subsection (d) of that
1708 Section, then the combined capture and control system must provide an overall
1709 reduction in volatile organic material emissions of at least 65 percent.

1710

1711 (Source: Added at 11 Ill. Reg. 19117, effective November 9, 1987)

1712

1713 **Section 215.249 Compliance Dates**

1714

1715 Source subject to this Subpart H shall comply with the applicable limitations within one year of
1716 the effective date of the subpart or by December 31, 1987, whichever is sooner.

1717

1718 (Source: Added in R85-21(A) at 11 Ill. Reg. 11770, effective June 29, 1987)

1719

1720 **SUBPART I: ADJUSTED REACT EMISSIONS LIMITATIONS**

1721

1722 **Section 215.260 Applicability**

1723

1724 ~~Owners and operators of emission sources subject to Subparts PP, QQ, or RR may petition the~~
1725 ~~Illinois Pollution Control Board for an Adjusted Reasonably Available Control Technology~~
1726 ~~(RACT) Emissions Limitation for such emission sources. Owners and operators of emissions~~
1727 ~~sources which are in existence on the effective date of this Subpart shall submit to the Illinois~~
1728 ~~Pollution Control Board a Notice of Intent to Petition for an Adjusted RACT Emissions~~
1729 ~~Limitation within 60 days after the effective date of this Subpart. Petitions for an Adjusted~~
1730 ~~RACT Emissions Limitation shall be filed within 120 days after the effective date of this Subpart~~
1731 ~~or at the time a construction permit is applied for from the Agency for the emission source, or 60~~
1732 ~~days after the time an emission source meets the applicability criteria set forth in such Subparts.~~
1733 ~~For the purposes of this Subpart, uncontrolled volatile organic material emissions are the~~
1734 ~~emissions of volatile organic material which would result if no air pollution control equipment~~
1735 ~~were used.~~

1736

(Source: Added at 12 Ill. Reg. 7311, effective April 8, 1988)

Section 215.261 Petition

~~A petition for an Adjusted RACT Emission Limitation shall contain:~~

- ~~a) — A specific proposal of, and support for, an Adjusted RACT Emissions Limitation which would apply to the emission source that is the subject of the petition as well as a showing at a hearing held pursuant to Section 28.1 of the Illinois Environmental Protection Act (Act) that the application of the applicable limits of Section 215.926(a)(1) and (2), 215.946(a)(1) or 215.966(a)(1) would be technically infeasible or economically unreasonable for that emission source.~~
- ~~b) — Information on the technical feasibility of reducing emissions of volatile organic material from the emission source including, but not limited to:
 - ~~1) — A complete description of the operations of the emission source.~~
 - ~~2) — A discussion of all available compliance strategies for achieving the emissions reduction prescribed by the applicable section and the technical feasibility of each compliance strategy.~~
 - ~~3) — Comparisons of the nature and quantity of uncontrolled emissions to:
 - ~~A) — Emissions reductions which would be achieved pursuant to the applicable Section for each compliance strategy listed in Section 215.261(b)(2); and~~
 - ~~B) — Emissions reduction which would be achieved pursuant to the proposed Adjusted RACT Emissions Limitation.~~~~
 - ~~4) — The basis for determining that the proposed method of emissions reduction is RACT for the that emission source and all information supporting that determination.~~~~
- ~~e) — Information on the economic reasonableness of reducing emissions of volatile organic material from the emission source including, but not limited to:
 - ~~1) — A comparison of the relative costs of achieving the emissions reduction pursuant to Section 215.926(a)(9) and (2), 215.946(a)(1) or 215.966(a)(1) and pursuant to the proposed Adjusted RACT Emissions Limitation including for each compliance strategy:
 - ~~A) — Capital costs;~~
 - ~~B) — Operating costs;~~~~~~

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- ~~C) — Any economic benefits, such as material recovery; and~~
- ~~D) — Other costs and benefits.~~
- ~~2) — An evaluation of the cost effectiveness in terms of annualized net cost per ton of volatile organic material reduction for each compliance strategy. Volatile organic material reduction is the amount of uncontrolled volatile organic material emissions less the amount of volatile organic material emissions after controls.~~
- ~~3) — An evaluation of the effects of the cost of achieving emissions reduction in relation to:
 - ~~A) — The annualized capital and operating budgets of the emission source over the most recent five-year period; and~~
 - ~~B) — Such other costs and economic information as the petitioner believes may assist the Board in reaching a decision.~~~~
- ~~4) — A discussion of other factors the petitioner may consider relevant such as:
 - ~~A) — Age of facility;~~
 - ~~B) — Quantity of emissions;~~
 - ~~C) — Nature of emissions;~~
 - ~~D) — Severity of existing air quality problems;~~
 - ~~E) — Extent of controls present;~~
 - ~~F) — Comparability to standard industry practice in related industries;~~
 - ~~G) — Cross media impacts; or~~
 - ~~H) — Potential for operational modifications~~~~
- ~~5) — The basis for determining that the proposed method of emissions reduction is RACT for the emission source and all information supporting that determination.~~

(Source: Added at 12 Ill. Reg. 7311, effective April 8, 1988)

Section 215.263 Public Hearing

1829 ~~In a public hearing before the Board noticed and held pursuant to the requirements of Section~~
1830 ~~28.1 of th Act, the petitioner for an Adjusted RACT Emissions Limitation shall prove:~~

1831
1832 a) ~~That the emissions limitation prescribed pursuant to Section 215.926(a)(1) and~~
1833 ~~(2), 215.946(a)(1) or 215.966(a)(1) does not constitute RACT for the specific~~
1834 ~~emission source; and~~

1835
1836 b) ~~That compliance with the proposed Adjusted RACT Emissions Limitation:~~

1837
1838 1) ~~Is RACT for that emission source based on the information provided in the~~
1839 ~~petition and at the hearing addressing subject described in Sections~~
1840 ~~215.261 and~~

1841
1842 2) ~~Will not cause or contribute to an increase in emissions so as to prevent or~~
1843 ~~interfere with the State's attainment of the air quality standards set forth in~~
1844 ~~35 Ill. Adm. Code 243.123 and 243.125.~~

1845
1846 (Source: Added at 12 Ill. Reg. 7311, effective April 8, 1988)

1847
1848 **Section 215.264 Board Action**

1849
1850 ~~The Board shall issue and maintain opinions and orders pursuant to the requirements of Section~~
1851 ~~28.1 of the Act. In addition, the Board shall publish a list of its determinations in accordance~~
1852 ~~with Section 28.1 of the Act. If an owner or operator of an emission source meets the~~
1853 ~~requirements of Sections 215.261 and 215.263 the Board may establish an Adjusted RACT~~
1854 ~~Emissions Limitation. Such Adjusted RACT Emissions imitation:~~

1855
1856 a) ~~shall substitute for that limitation otherwise prescribed by Section 215.926(a)(1)~~
1857 ~~and (2), 215.946(a)(1) or 215.966(a)(1) and~~

1858
1859 b) ~~Shall require compliance by a date certain as established by the Board for an~~
1860 ~~existing source or prior to the operation of a new emission source.~~

1861
1862 (Source: Added at 12 Ill. Reg. 7311, effective April 8, 1987)

1863
1864 **Section 215.267 Agency Petition**

1865
1866 ~~The Agency may petition the Board for an Adjusted RACT Emission Limitation for an emission~~
1867 ~~source subject to this Subpart at any time after the effective date of this Subpart. The provisions~~
1868 ~~of Sections 215.261, 215.263, and 215.264 shall apply to such petitions.~~

1869
1870 (Source: Added at 12 Ill. Reg. 7311, effective April 8, 1987)

1871
1872 **SUBPART K: USE OF ORGANIC MATERIAL**

1873
1874 **Section 215.301 Use of Organic Material**

1875

1876 No person shall cause or allow the discharge of more than 3.6 kg/hr (8 lbs/hr) of organic material
1877 into the atmosphere from any emission source, except as provided in Sections 215.302, 215.303,
1878 215.304 and the following exception: If no odor nuisance exists the limitation of this Subpart
1879 shall apply only to photochemically reactive material.

1880

1881 (Source: Amended at 3 Ill. Reg. 30, p. 124, effective July 28, 1979)

1882

1883 **Section 215.302 Alternative Standard**

1884

1885 Emissions of organic material in excess of those permitted by Section 215.301 are allowable if
1886 such emissions are controlled by one of the following methods:

1887

1888 a) Flame, thermal or catalytic incineration so as either to reduce such emissions to
1889 10 ppm equivalent methane (molecular weight 16) or less, or to convert 85
1890 percent of the hydrocarbons to carbon dioxide and water; or,

1891

1892 b) A vapor recovery system which adsorbs and/or condenses at least 85 percent of
1893 the total uncontrolled organic material that would otherwise be emitted to the
1894 atmosphere; or,

1895

1896 c) Any other air pollution control equipment approved by the Agency capable of
1897 reducing by 85 percent or more the uncontrolled organic material that would be
1898 otherwise emitted to the atmosphere.

1899

1900 (Source: Amended at 3 Ill. Reg. 30, p. 124, effective July 28, 1979)

1901

1902 **Section 215.303 Fuel Combustion Emission Sources**

1903

1904 The provisions of Sections 215.301 and 215.302 shall not apply to fuel combustion emission
1905 sources.

1906

1907 (Source: Amended at 3 Ill. Reg. 30, p. 124, effective July 28, 1979)

1908

1909 **Section 215.304 Operations with Compliance Program**

1910

1911 The provisions of Section 215.301 and 215.302 shall not apply to any owner, operator, user or
1912 manufacturer of paint, varnish, lacquer, coatings or printing ink whose compliance program and
1913 project completion schedule, as required by 35 Ill. Adm. Code 201, provides for the reduction of
1914 organic material used in such process to 20 percent or less of total volume by May 30, 1975.

1915

1916 (Source: Amended at 3 Ill. Reg. 30, p. 124, effective July 28, 1979)

1917

1918 **Section 215.305 Viscose Exemption (Repealed)**

1919

1920 (Source: Repealed at 9 Ill. Reg. 13960, effective August 28, 1985)

SUBPART N: VEGETABLE OIL PROCESSING

Section 215.340 Hexane Extraction Soybean Crushing

~~The owner or operator of a hexane extraction soybean crushing source, which would emit volatile organic material in excess of 100 tons per year in the absence of pollution control equipment or enforceable operating permit limitation, shall not cause or allow emissions to exceed:~~

- ~~a) 0.0026 lbs of volatile organic material per pound of conventional soybean crush, and~~
- ~~b) 0.0052 lbs of volatile organic material per pound of specialty soybean crush.~~

(Source: Added at 8 Ill. Reg. 13254, effective July 12, 1984)

Section 215.342 Hexane Extraction Corn Oil Processing

~~The owner or operator of a hexane extraction corn oil source, which would emit volatile organic material in excess of 100 tons per year in the absence of control equipment or enforceable operating permit limitation, shall not cause or allow emissions to exceed more than 2.2 gals of volatile organic material per ton of raw corn germ processed.~~

(Source: Added at 8 Ill. Reg. 13254, effective July 12, 1984)

Section 215.344 Recordkeeping For Vegetable Oil Processes

- ~~a) The owner or operator of sources subject to Section 215.340 and 215.342 shall maintain daily records of solvent storage inventory, and conventional and specialty soybean crush or raw corn germ. Each day the total decrease in solvent storage inventory, and total conventional and specialty soybean crush or raw corn germ for the previous 180 days shall be calculated.~~
- ~~b) The Agency shall have access to records required under this Section upon reasonable notice.~~

(Source: Added at 8 Ill. Reg. 13254, effective July 12, 1984)

Section 215.345 Compliance Determination

- ~~a) Each day, the owner or operator of sources subject to Section 215.340 shall calculate the sum of:
 - ~~1) total conventional soybean crush for the previous 180 days, in pounds, multiplied by 0.0026, plus~~~~

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~~2) total specialty soybean crush for the previous 180 days, in pounds, multiplied by 0.0052.~~

~~b) Each day, the owner or operator of sources subject to Section 215.342 shall calculate the sum of the total raw corn germ processed for the previous 180 days, in tons multiplied by 2.2.~~

~~c) If such sum is less than the total decrease in solvent storage inventory over the previous 180 days, then the provisions of Section 215.340 or 215.342, whichever is applicable, shall be deemed to have been exceeded.~~

(Source: Added at 8 Ill. Reg. 13254, effective July 12, 1984)

Section 215.346 Compliance Dates and Geographical Areas

~~a) Except as otherwise stated in subsection (b), every owner or operator of an emission source subject to Sections 215.340 through 215.345 shall comply with the standards and limitations of those Sections by December 31, 1985.~~

~~b) If an emission source is not located in one of the counties listed below, the owner or operator of the emission source shall comply with the requirements of Sections 215.340 through 215.345 no later than December 31, 1987:~~

- | | |
|----------|------------|
| Bond | Madison |
| Clinton | McHenry |
| Cook | Monroe |
| DeKalb | Montgomery |
| DuPage | Morgan |
| Franklin | Pope |
| Greene | Randolph |
| Jackson | Saline |
| Jersey | Sangamon |
| Johnson | St. Clair |
| Kane | Union |
| Kendall | Washington |
| Lake | Will |
| Macoupin | Williamson |

~~(BOARD NOTE: The USEPA noted in its redesignation rulemaking, that it will publish a rulemaking notice on Williamson County's attainment status. (45 Fed. Reg. 21949, May 16, 1983) Should Williamson County be re-designated as attainment prior to December 31, 1984, it and the counties contiguous to it will be considered deleted from the above list.)~~

~~e) Notwithstanding subsection (b), if any county is redesignated as nonattainment by~~

1999 ~~the USEPA at any time subsequent to the effective date of this Section, the owner~~
2000 ~~or operator of an emission source located in that county or any county contiguous~~
2001 ~~to that county who would otherwise be subject to the compliance date in~~
2002 ~~subsection (b) shall comply with the requirements of Sections 215.340 through~~
2003 ~~215.345 within one year from the date of redesignation but in no case later than~~
2004 ~~December 31, 1987.~~

2005
2006 (Source: Added at 8 Ill. Reg. 13254, effective July 12, 1984)

2007
2008 **Section 215.347 Compliance Plan**

2009
2010 ~~a) The owner or operator of an emission source subject to Section 215.346(a) or (b)~~
2011 ~~shall submit to the Agency a compliance plan, no later than December 31, 1984.~~

2012
2013 ~~b) The owner or operator of an emission source subject to Section 215.346(c) shall~~
2014 ~~submit a compliance plan within 90 days after the date of redesignation, but in no~~
2015 ~~case later than December 31, 1986.~~

2016
2017 ~~c) The owner or operator of an emission source subject to Section 215.346(c) shall~~
2018 ~~not be required to submit a compliance plan if redesignation occurs after~~
2019 ~~December 31, 1986.~~

2020
2021 ~~d) The plan and schedule shall meet the requirements of 35 Ill. Adm. Code 201,~~
2022 ~~Subpart H.~~

2023
2024 (Source: Added at 8 Ill. Reg. 13254, effective July 12, 1984)

2025
2026 **SUBPART P: PRINTING AND PUBLISHING**

2027
2028 **Section 215.401 Flexographic and Rotogravure Printing**

2029
2030 No owner or operator of a packaging rotogravure, publication rotogravure or flexographic
2031 printing press subject to this rule and employing solvent-containing ink may cause or allow the
2032 operation of such press unless:

2033
2034 a) The volatile fraction of ink as it is applied to the substrate contains 25 percent or
2035 less by volume of organic solvent and 75 percent or more by volume of water; or

2036
2037 b) The volatile fraction of an ink as it is applied to the substrate, less water, is 40
2038 percent or less by volume; or

2039
2040 c) The owner or operator installs and operates:

2041
2042 1) A carbon adsorption system which reduces the volatile organic emissions
2043 from the capture system by at least 90 percent by weight; or
2044

- 2045 2) An afterburning system which oxidizes at least 90 percent of the captured
2046 nonmethane volatile organic materials (measured as total combustible
2047 carbon) to carbon dioxide and water; or
2048
2049 3) An alternative volatile organic material emission reduction system
2050 demonstrated to have at least a 90 percent overall reduction efficiency and
2051 approved by the Agency; and
2052
2053 d) A capture system is used in conjunction with any of the emission control systems
2054 in subsection (c). The design and operation of the capture system must be
2055 consistent with good engineering practice and shall provide, in combination with
2056 the control equipment, an overall reduction in volatile organic material emissions
2057 of at least:
2058
2059 1) 75 percent where a publication rotogravure process is employed; or
2060
2061 2) 65 percent or the maximum reduction achievable using good engineering
2062 design where a packaging rotogravure process is employed; or
2063
2064 3) 60 percent where a flexographic printing process is employed.
2065

2066 (Source: Added at 7 Ill. Reg. 1244, effective January 21, 1983)
2067

2068 **Section 215.402 Exemptions** 2069

2070 The limitations of this Subpart shall not apply to any facility whose aggregate uncontrolled
2071 rotogravure and/or flexographic printing press emissions of volatile organic material are limited
2072 by operating permit conditions to 907 Mg (1000 tons) per year or less in the absence of air
2073 pollution control equipment or whose actual emissions in the absence of air pollution control
2074 equipment would be less than or equal to 907 Mg (1000 tons) per year when averaged over the
2075 preceding three calendar years.
2076

2077 (Source: Added at 7 Ill. Reg. 1244, effective January 21, 1983)
2078

2079 **Section 215.403 Applicability of Subpart K** 2080

2081 Upon achieving compliance with this Subpart, the emission source is not required to meet
2082 Subpart K. Emission sources exempted from this Subpart are subject to Subpart K.
2083 ~~Rotogravure~~~~Roto-gravure~~ or flexographic equipment used for both roll printing and paper
2084 coating are subject to this Subpart.
2085

2086 (Source: Added at 7 Ill. Reg. 1244, effective January 21, 1983)
2087

2088 **Section 215.404 Testing and Monitoring (Repealed)** 2089

2090 (Source: Repealed at 14 Ill. Reg. 9173, effective May 23, 1990)

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Section 215.405 Compliance Dates and Geographical Areas

- a) Except as otherwise stated in subsection (b), every owner or operator of an emission source subject to:
 - 1) Section 215.401 shall comply with its standards and limitations by December 31, 1983; and
 - 2) Section 215.408 shall comply with its standards and limitations by December 31, 1987.

- b) If an emission source subject to Section 215.401 is not located in one of the counties listed below and is also not located in any county contiguous thereto, the owner or operator of the emission source shall comply with the requirements of this Subpart no later than December 31, 1987:

Cook	Macoupin
DuPage	Madison
Kane	Monroe
Lake	Saint Clair

- c) Notwithstanding subsection (b), if any county is designated as nonattainment by the USEPA at any time subsequent to the effective date of this Subpart, the owner or operator of an emission source located in that county or any county contiguous to that county who would otherwise be subject to the compliance date in subsection (b) comply with the requirements of this Subpart within one year from the date of redesignation but in no case later than December 31, 1987.

(Source: Amended at 11 Ill. Reg. 16706, effective September 30, 1987)

Section 215.406 Alternative Compliance Plan

~~The owner or operator of an emission source subject to this Subpart may in lieu of compliance with Sections 215.405 and 215.407 demonstrate compliance through the use of a low solvent ink program by taking the following actions:~~

- a) ~~Submit to the Agency a compliance plan, including a compliance completion schedule, by December 31, 1983 which demonstrates:~~
 - 1) ~~Substantial emission reductions early in the compliance schedule;~~
 - 2) ~~Greater reductions in emissions than would have occurred without a low solvent ink program; and~~
 - 3) ~~Final compliance as expeditiously as possible but no later than December~~

2133 31, 1987; and

2134
2135 ~~b) — Certify to the Agency that:~~

2136
2137 ~~1) — A low solvent ink compliance strategy is not technically available which~~
2138 ~~would enable the emission source to achieve compliance by the date~~
2139 ~~specified in Section 215.405; and~~

2140
2141 ~~2) — An unreasonable economic burden would be incurred if the owner or~~
2142 ~~operator were required to demonstrate compliance by the date specified in~~
2143 ~~Section 215.405; and~~

2144
2145 ~~e) — Agree to install one of the control alternatives specified in Section 215.401(c) by~~
2146 ~~June 31, 1986 if the specified low solvent ink strategy fails to achieve scheduled~~
2147 ~~reductions by December 31, 1985.~~

2148
2149 (Source: Added at 7 Ill. Reg. 1244, effective January 21, 1983)

2150
2151 **Section 215.407 Compliance Plan**

2152
2153 a) ~~The owner or operator of an emission source subject to Section 215.405(a)(1)~~
2154 ~~shall submit to the Agency a compliance plan, pursuant to 35 Ill. Adm. Code 201,~~
2155 ~~Subpart H, including a project completion schedule where applicable, no later~~
2156 ~~than April 21, 1983.~~

2157
2158 ~~b) — The owner or operator of an emission source subject to Section 215.405(b) shall~~
2159 ~~submit to the Agency a compliance plan, including a project completion schedule~~
2160 ~~where applicable, no later than December 31, 1986.~~

2161
2162 ~~e) — The owner or operator of an emission source subject to Section 215.405(c) shall~~
2163 ~~submit a compliance plan, including a project completion schedule within 90 days~~
2164 ~~after the date of redesignation, but in no case later than December 31, 1986.~~

2165
2166 ~~d) — Unless the submitted compliance plan or schedule is disapproved by the Agency,~~
2167 ~~the owner or operator of a facility or emission source subject to the rules specified~~
2168 ~~in subsections (a), (b) or (c) may operate the emission source according to the~~
2169 ~~plan and schedule as submitted.~~

2170
2171 ~~e) — The plan and schedule shall meet the requirements of 35 Ill. Adm. Code 201,~~
2172 ~~Subpart H, including specific interim dates as required in 35 Ill. Adm. Code~~
2173 ~~201.242.~~

2174
2175 (Source: Amended at 11 Ill. Reg. 16706, effective September 30, 1987)

2176
2177 **Section 215.408 Heatset Web Offset Lithographic Printing**

2178

2179 a) No owner or operator of a heatset web offset lithographic printing facility, located
2180 in Cook, DuPage, Kane, Lake, Macoupin, Madison, McHenry, Monroe, St. Clair
2181 or Will County, emitting over 100 tons/year of organic material, in the absence of
2182 pollution control equipment, may cause or allow the operation of a heatset web
2183 offset press unless:

2184
2185 1) An incinerator system is installed and operated that oxidizes at least 90
2186 percent of the organic materials (measured as total combustible carbon) in
2187 the dryer exhaust airstream to carbon dioxide and water; or

2188
2189 2) The fountain solution contains no more than eight (8) percent, by weight,
2190 of volatile organic material and a condensation recovery system is
2191 installed and operated that removes at least 75 percent of the non-
2192 isopropyl alcohol organic materials from the dryer exhaust airstream.

2193
2194 b) No owner or operator of a heatset web offset lithographic printing facility, located
2195 in a county other than Cook, DuPage, Kane, Lake, Macoupin, Madison,
2196 McHenry, Monroe, St. Clair or Will County, emitting over 100 tons/year of
2197 organic material, in the absence of pollution control equipment, may cause or
2198 allow the operation of a heatset web offset press unless the fountain solution
2199 contains no more than eight (8) percent, by weight, of volatile organic material.

2200
2201 (Source: Added at 11 Ill. Reg. 16706, effective September 30, 1987)
2202

2203 **Section 215.409 Testing Methods for Volatile Organic Material Content**

2204
2205 The volatile organic material content of fountain solution and all coatings shall be determined by
2206 Method 24, 40 CFR 60, Appendix A, incorporated by reference in Section 215.105. The volatile
2207 organic material content of printing inks shall be determined by Method 24A, 40 CFR Part 60,
2208 Appendix A, incorporated by reference in Section 215.105. Any alternate test method must be
2209 approved by the Agency, which shall consider data comparing the performance of the proposed
2210 alternative to the performance of the approved test method(s). If the Agency determines that such
2211 data demonstrates that the proposed alternative will achieve results equivalent to the approved
2212 test method(s), the Agency shall approve the proposed alternative.

2213
2214 (Source: Added at 14 Ill. Reg. 9173, effective May 23, 1990)
2215

2216 **Section 215.410 Emissions Testing**

2217
2218 a) Any tests of volatile organic material emissions, including tests conducted to
2219 determine control equipment efficiency or control device destruction efficiency,
2220 shall be conducted in accordance with the methods and procedures specified in
2221 Section 215.102.

2222
2223 b) Upon a reasonable request by the Agency, the owner or operator of a volatile
2224 organic material emission source required to comply with the limits of this

2225 Subpart shall conduct emissions testing, at his own expense, to demonstrate
2226 compliance.

2227
2228 c) A person planning to conduct a volatile organic material emissions test to
2229 demonstrate compliance with this Subpart shall notify the Agency of that intent
2230 not less than 30 days before the planned initiation of the tests so the Agency may
2231 observe the test.

2232
2233 (Source: Added at 14 Ill. Reg. 9173, effective May 23, 1990)

2234
2235 **SUBPART Q: LEAKS FROM SYNTHETIC ORGANIC CHEMICAL**
2236 **AND POLYMER MANUFACTURING EQUIPMENT**

2237
2238 **Section 215.420 Applicability**

2239
2240 The provisions of Sections 215.421 through ~~215.428~~215.429 of this subpart shall apply to all
2241 plants in the State of Illinois which manufacture synthetic organic chemicals and polymers,
2242 except those located in any of the following counties: Will, McHenry, Cook, DuPage, Lake,
2243 Kane, Madison, St. Clair, Macoupin, and Monroe. The provisions of Section 215.430 through
2244 215.439 shall apply to the counties specifically enumerated above. In addition, if any county is
2245 redesignated as non-attainment by the USEPA subsequent to December 31, 1987, the owner or
2246 operator of a plant located in that county shall comply with the requirements of Sections 215.430
2247 through 215.439 upon the effective date of the redesignation.

2248
2249 (Source: Amended at 13 Ill. Reg. 10893, effective June 27, 1989)

2250
2251 **Section 215.421 General Requirements**

2252
2253 a) The owner or operator of a plant which has more than 1,500 components in gas or
2254 light liquid service, which components are used to manufacture the synthetic
2255 organic chemicals or polymers listed in Appendix D, shall conduct leak inspection
2256 and repair programs in accordance with this Subpart for that component
2257 containing more than 10 percent volatile organic material as determined by
2258 ASTM method E-260, E-168, and E-169, incorporated by reference in Section
2259 215.105. The provisions of this Subpart are not applicable if the products listed in
2260 Appendix D are made from natural fatty acids for the production of hexadecyl
2261 alcohol.

2262
2263 b) A component shall be considered to be leaking if the volatile organic material
2264 concentration exceeds 10,000 parts per million ppm when measured at a distance
2265 of 0 centimeters cm from the component as determined by Method 21, 40 CFR
2266 Part 60, Appendix A, incorporated by reference in Section 215.105.

2267
2268 (Source: Amended at 14 Ill. Reg. 9173, effective May 23, 1990)

2269
2270 **Section 215.422 Inspection Program Plan for Leaks**

2271
2272 The owner or operator of a synthetic organic chemical or polymer manufacturing plant subject to
2273 Section 215.421 shall prepare an inspection program plan which contains, at a minimum:

- 2274
2275 a) An identification of all components and the period in which each will be
2276 monitored pursuant to Section 215.423;
2277
2278 b) The format for the monitoring log required by Section 215.424;
2279
2280 c) A description of the monitoring equipment to be used pursuant to Section
2281 215.423; and
2282
2283 d) A description of the methods to be used to identify all pipeline valves, pressure
2284 relief valves in gaseous service, all leaking components, and the ball and plug
2285 valves and pumps exempted under Section 215.423(h) such that they are obvious
2286 and can be located by both plant personnel performing monitoring and Agency
2287 personnel performing inspections.
2288

2289 (Source: Former Section 215.422 recodified to Section 215.423, new Section 215.422
2290 recodified from Section 215.421 at 11 Ill. Reg. 13541, effective August 4, 1987)

2291
2292 **Section 215.423 Inspection Program for Leaks**
2293

2294 The owner or operator of a synthetic organic chemical or polymer manufacturing plant subject to
2295 Section 215.420 shall, for the purposes of detecting leaks, conduct a component inspection
2296 program consistent with the following provisions.
2297

- 2298 a) Test annually those components operated near extreme temperature or pressure
2299 such that they would be unsafe to routinely monitor, and those components
2300 located more than two meters above or away from permanent worker access
2301 structures or surfaces;
2302
2303 b) Test all other pressure relief valves in gaseous service, pump seals, pipelines
2304 valves, process drains and compressor seals not earlier than March 1 or later than
2305 June 1 of each year;
2306
2307 c) If more than 2 percent of the components tested pursuant to subsection (b) are
2308 found to leak, again test all pressure relief valves in gaseous service, pipeline
2309 valves in gaseous service and compressor seals by methods and procedures
2310 approved by the Agency not earlier than June 1 or later than September 1 of each
2311 year;
2312
2313 d) Observe visually all pump seals weekly;
2314
2315 e) Test immediately any pump seal from which liquids are observed dripping;
2316

- 2317 f) Test any relief valve within 24 hours after it has vented to the atmosphere; and
2318
2319 g) Test immediately after repair any component that was found leaking.
2320
2321 h) Ball and plug valves, inaccessible valves, storage tank valves, pumps equipped
2322 with mechanical seals, pressure relief devices connected to an operating flare
2323 header or vapor recovery device are exempt from the monitoring requirements in
2324 this Section.

2325

2326 (Source: Former Section 215.423 recodified to Section 215.424, new Section 215.423
2327 recodified from Section 215.422 at 11 Ill. Reg. 13541, effective August 4, 1987)

2328

2329 **Section 215.424 Repairing Leaks**

2330

2331 All leaking components must be repaired and retested as soon as practicable but no later than 21
2332 days after the leak is found unless the leaking component cannot be repaired until the process
2333 unit is shutdown or the repair part is received. Records of repairing and retesting must be
2334 maintained in accordance with Sections 215.424 and 215.425.

2335

2336 (Source: Former Section 215.424 recodified to Section 215.425, new Section 215.424
2337 recodified from Section 215.423 at 11 Ill. Reg. 13541, effective August 4, 1987)

2338

2339 **Section 215.425 Recordkeeping for Leaks**

2340

2341 a) The owner or operator of a synthetic organic chemical or polymer manufacturing
2342 plant shall maintain a leaking components monitoring log which shall contain, at
2343 a minimum, the following information:

2344

2345 1) The name of the process unit where the component is located;

2346

2347 2) The type of component (e.g., valve, seal);

2348

2349 3) The identification number of the component;

2350

2351 4) The date on which a leaking component is discovered;

2352

2353 5) The date on which a leaking component is repaired;

2354

2355 6) The date and instrument reading of the recheck procedure after a leaking
2356 component is repaired;

2357

2358 7) A record of the calibration of the monitoring instrument;

2359

2360 8) The identification number of leaking components which cannot be
2361 repaired until process unit shutdown; and

2362

- 2363 9) The total number of components inspected and the total number of
2364 components found leaking during that monitoring period.
2365
- 2366 b) Copies of the monitoring log shall be retained by the owner or operator for a
2367 minimum of two years after the date on which the record was made or the report
2368 prepared.
2369
- 2370 c) Copies of the monitoring log shall be made available to the Agency, upon verbal
2371 or written request, at any reasonable time.
2372

2373 (Source: Former Section 215.425 recodified to Section 215.426, new Section 215.425
2374 recodified from Section 215.424 at 11 Ill. Reg. 13541, effective August 4, 1987)
2375

2376 **Section 215.426 Report for Leaks**

2377
2378 The owner or operator of a synthetic organic chemical or polymer manufacturing plant subject to
2379 Section 215.420 shall:
2380

- 2381 a) Submit a report to the Agency prior to the 1st day of July and October listing all
2382 leaking components identified pursuant to Section 215.423 but not repaired within
2383 21 days, all leaking components awaiting process unit shutdown, the total number
2384 of components inspected and the total number of components found leaking;
2385
- 2386 b) Submit a signed statement with the report attesting that all monitoring and repairs
2387 were performed as required under Sections 215.421 through 215.427.
2388

2389 (Source: Former Section 215.426 recodified to Section 215.427, new Section 215.426 at
2390 11 Ill. Reg. 13541, effective August 4, 1987)
2391

2392 **Section 215.427 Alternative Program for Leaks**

2393
2394 The Agency shall approve an alternative program of monitoring, recordkeeping, and/or reporting
2395 to that prescribed in Sections 215.421 through 215.426, upon a demonstration by the owner or
2396 operator of such plant that the alternative program will provide plant personnel and Agency
2397 personnel with an equivalent ability to identify and repair leaking components. The owner or
2398 operator-operator utilizing an alternative monitoring program shall submit to the Agency an
2399 alternative monitoring program plan consistent with the provisions of Section 215.422.
2400

2401 (Source: Former Section 215.427 recodified to Section 215.428, new Section 215.427
2402 recodified from Section 215.426 at 11 Ill. Reg. 13541, effective August 4, 1987)
2403

2404 **Section 215.428 Compliance Dates**

2405
2406 Every owner or operator of a synthetic organic chemical or polymer manufacturing plant subject
2407 to Sections 215.421 through 215.427 shall comply with the standards and limitations of those
2408 Sections beginning December 31, 1987.

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(Source: Amended at 11 Ill. Reg. 20829, effective December 14, 1987)

Section 215.429 Compliance Plan

- ~~a) The owner or operator of a synthetic organic chemical or polymer manufacturing plant subject to Section 215.428 shall submit to the Agency a compliance plan, no later than December 31, 1987.~~
- ~~b) The plan and schedule shall meet the requirements of 35 Ill. Adm. Code 201.~~

(Source: Amended at 11 Ill. Reg. 20829, effective December 14, 1987)

Section 215.430 General Requirements

The owner or operator of a plant which processes more than 3660 Mg/yr (4033 tons/year) gaseous and light liquid volatile organic material, and whose components are used to manufacture the synthetic organic chemicals or polymers listed in Appendix D, shall comply with Sections 215.430 to 215.439. The provisions of Sections 215.430 to 215.439 are applicable to components containing 10 percent or more by weight volatile organic material as determined by ASTM method E-168, E-169 and E-260, incorporated by reference in Section 215.105. Those components that are not process unit components are exempt from Sections 215.430 to 215.439. A component shall be considered to be leaking if the volatile organic material is equal to, or is greater than 10,000 ppmv as methane or hexane as determined by USEPA Reference Method 21, as specified at 40 CFR 60, Appendix A, incorporated by reference in Section 215.105, indication of liquids dripping, or indication by a sensor that a seal or barrier fluid system has failed. The provisions of this Subpart are not applicable if the equipment components are used to produce heavy liquid chemicals only from heavy liquid feed or raw materials.

(Source: Amended at 13 Ill. Reg. 10893, effective June 27, 1989)

Section 215.431 Inspection Program Plan for Leaks

The owner or operator of a synthetic organic chemical or polymer manufacturing plant subject to Section 215.430 shall prepare an inspection program plan which contains, at a minimum:

- a) An identification of all components and the period in which each will be monitored pursuant to Section 215.432.
- b) The format for the monitoring log required by Section 215.434.
- c) A description of the monitoring equipment to be used when complying with Section 215.432, and
- d) A description of the methods to be used to identify all pipeline valves, pressure relief valves in gaseous service, all leaking components, and components

2455 exempted under Section 215.432(i) such that they are obvious and can be located
2456 by both plant personnel performing monitoring and Agency personnel performing
2457 inspections.
2458

2459 (Source: Added at 11 Ill. Reg. 20829, effective December 14, 1987)
2460

2461 **Section 215.432 Inspection Program for Leaks**
2462

2463 The owner or operator of a synthetic organic chemical or polymer manufacturing plant subject to
2464 Section 215.430 through 215.439, shall for the purpose of detecting leaks, conduct a component
2465 inspection program utilizing the test methods specified in USEPA Reference Method 21, 40 CFR
2466 60, Appendix A (1986), incorporated by reference in Section 215.105, consistent with the
2467 following provisions:
2468

- 2469 a) Test annually those components operated near extreme temperature or pressure
2470 such that they would be unsafe to routinely monitor, and those components
2471 located more than two meters above permanent worker access structures or
2472 surfaces;
2473
- 2474 b) Test quarterly all other pressure relief valves in gas service, pumps in light liquid
2475 service, valves in light liquid service and in gas service, and compressors.
2476
- 2477 c) If less than or equal to 2 percent of the valves in light liquid service and in gas
2478 service tested pursuant to subsection (b) are found not to leak for 5 consecutive
2479 quarters, no leak tests shall be required for three consecutive quarters. Thereafter,
2480 leak tests shall resume for the next quarter. If that test shows less than or equal to
2481 2 percent of the valves in light liquid service and in gas service are leaking, then
2482 no tests are required for ~~the next~~the next 3 quarters. If more than 2 percent are
2483 leaking, then tests are required for the next 5 quarters.
2484
- 2485 d) Observe visually all pump seals weekly.
2486
- 2487 e) Test immediately any pump seal in light liquid service from which liquids are
2488 observed dripping.
2489
- 2490 f) Test any relief valve within 24 hours after it has vented to the atmosphere.
2491
- 2492 g) Routine instrument monitoring of valves which are not externally regulated,
2493 flanges, and components in heavy liquid service, is not required. However, any
2494 valve which is not externally regulated, flange, or component in heavy liquid
2495 service that is found to be leaking on the basis of sight, smell or sound shall be
2496 repaired as soon as practicable but no later than 30 days after the leak is found.
2497
- 2498 h) Test immediately after repair any component that was found leaking.
2499
- 2500 i) Within 1 hour of its detection, a weatherproof, readily visible tag, in bright colors

2501 such as red or yellow, bearing an identification number and the date on which the
2502 leak was detected must be affixed on the leaking component and remain in place
2503 until the leaking component is repaired.

2504
2505 j) Any component that is in vacuum service or any pressure relief devices connected
2506 to an operating flare header or to a vapor recovery devices is exempt from the
2507 monitoring requirements in this Section.
2508

2509 (Source: Amended at 13 Ill. Reg. 10893, effective June 27, 1989)
2510

2511 **Section 215.433 Repairing Leaks**

2512
2513 All leaking components must be repaired and retested as soon as practicable but no later than 15
2514 days after the leak is found unless the leaking component cannot be repaired until the process
2515 unit is shut down. Records of repairing and retesting must be maintained in accordance with
2516 Section 215.434 and 215.435.

2517
2518 (Source: Added at 11 Ill. Reg. 20829, effective December 14, 1987)
2519

2520 **Section 215.434 Recordkeeping for Leaks**

2521
2522 a) The owner or operator of a synthetic organic chemical or polymer manufacturing
2523 plant shall maintain a leaking components monitoring log which shall contain, at
2524 a minimum, the following information:

- 2525
- 2526 1) The name of the process unit where the component is located;
 - 2527 2) The type of component (e.g., valve, seal);
 - 2528 3) The identification number of the component;
 - 2529 4) The date on which a leaking component is discovered;
 - 2530 5) The date on which a leaking component is repaired;
 - 2531 6) The date and instrument reading of the recheck procedure after a leaking
2532 component is repaired;
 - 2533 7) A record of the calibration of the monitoring instrument;
 - 2534 8) The identification number of leaking components which cannot be
2535 repaired until process unit shutdown; and
 - 2536 9) The total number of valves in light liquid service and in gas service
2537 inspected; the total number and the percentage of these valves found
2538 leaking during the monitoring period.
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- b) Copies of the monitoring log shall be retained by the owner or operator for a minimum of two years after the date on which the record was made or the report was prepared.
- c) Copies of the monitoring log shall be made available to the Agency upon verbal or written request prior to or at the time of inspection pursuant to Section 4(d) of the Environmental Protection Act (Act) (Ill. Rev. Stat. 1985, ch. 111½, pars. 1001 et seq., at any reasonable time.

(Source: Added at 11 Ill. Reg. 20829, effective December 14, 1987)

Section 215.435 Report for Leaks

The owner or operator of a synthetic organic chemical or polymer manufacturing plant subject to Section 215.430 through 215.439 shall:

- a) Submit quarterly reports to the Agency on or before March 31, June 30, September 30, and December 31 of each year, listing all leaking components identified pursuant to Section 215.432 but not repaired within 15 days, all leaking components awaiting process unit shutdown, the total number of components inspected, the type of components inspected, and the total number of components found leaking, the total number of valves in light liquid service and in gas service inspected and the number and percentage of valves in light liquid service and in gas service found leaking.
- b) Submit a signed statement with the report attesting that all monitoring and repairs were ~~performed~~performed as required under Section 215.430 through 215.436.

(Source: Amended at 13 Ill. Reg. 10893, effective June 27, 1989)

Section 215.436 Alternative Program for Leaks

The Agency shall approve an alternative program of monitoring, recordkeeping, or reporting to that prescribed in Sections 215.430 through 215.438, upon a demonstration by the owner or operator of such plant that the alternative program will provide plant personnel and Agency personnel with an ability equivalent to the monitoring, recordkeeping or reporting requirements of this Part to identify and repair leaking components. The owner or operator utilizing an alternative monitoring program shall submit to the Agency an alternative monitoring program plan consistent with the provisions of Section 215.431.

(Source: Added at 11 Ill. Reg. 20829, effective December 14, 1987)

Section 215.437 Open-Ended Valves

- a) Each open-ended valve shall be equipped with a cap, blind flange, plug, or a

- 2593 second valve, except during operations requiring fluid flow through the open-
2594 ended valve.
2595
- 2596 b) Each open-ended valve equipped with a second valve shall be operated in a
2597 manner such that the valve on the process fluid end is closed before the second
2598 valve is closed.
2599
- 2600 c) Components which are open-ended valves and which serve as a sampling
2601 connection shall be controlled such that:
2602
- 2603 1) A closed purge system or closed vent system shall return purged process
2604 fluid to the process line with no detectable volatile organic material
2605 emissions to the atmosphere, or
2606
- 2607 2) A closed purge system or closed vent system shall collect and recycle
2608 purged process fluid to the process line with no detectable volatile organic
2609 material emissions to the atmosphere, or
2610
- 2611 3) Purged process fluid shall be transported to a control device that complies
2612 with the requirements of Section 215.438.
2613
- 2614 d) In-situ sampling systems are exempt from subsection (c).
2615

2616 (Source: Amended at 13 Ill. Reg. 10893, effective June 27, 1989)
2617

2618 **Section 215.438 Standards for Control Devices**
2619

2620 Control devices used to comply with Section 215.437(c) shall comply with following:
2621

- 2622 a) If the control device is a vapor recovery system (for example, condensers and
2623 adsorbers) it shall be designed and operated to recover the volatile organic
2624 material emissions vented to it with an efficiency of 95 percent or greater.
2625
- 2626 b) If the control device is an enclosed combustion device, it shall be designed and
2627 operated to reduce the volatile organic material emissions vented to it with an
2628 efficiency of 95 percent or greater, or to provide a minimum residence time of
2629 0.75 seconds at a minimum temperature of 816° C.
2630
- 2631 c) If the control device is a flare, it shall:
2632
- 2633 1) Be designed for and operated with no visible emissions as determined by
2634 USEPA Reference Method 22, 40 CFR 60, Appendix A, 1986,
2635 incorporated by reference in Section 215.105, except for periods not to
2636 exceed a total of 5 minutes during any 2 consecutive hours.
2637
- 2638 2) Be operated with a pilot flame present at all times and shall be monitored

2639 with a thermocouple or any other equivalent device to detect the presence
2640 of the pilot flame.

- 2641
- 2642 3) Be steam-assisted, air assisted, or nonassisted.
- 2643
- 2644 4) Be used only with the net heating value of the gas being combusted being
2645 11.2 MJ/scm (300 Btu/scf) or greater if the flare is steam-assisted or air-
2646 assisted; or with the net heating value of the gas being combusted being
2647 7.45 MJ/scm or greater if the flare is nonassisted. The net heating value of
2648 the gas being combusted shall be calculated using the following equation:
2649

$$H_r = K \sum_{i=1}^n C_i H_i$$

2650

Where:

H_r = Net heating value of the sample in MJ/scm; where the net enthalpy per mole of offgas is based on combustion at 25° C and 760 mm Hg, but the standard temperature for determining the value corresponding to one mole is 20° C.

2651

K = Constant,

2652

$$1.740 \times 10^{-7} (1/\text{ppm}) (\text{gmole}/\text{scm}) (\text{MJ}/\text{Kcal})$$

2653

where

standard temperature for (gmole/scm) is 20° C.

C_i = Concentration of sample component i , in ppm, as measured by USEPA Reference Method 18, 40 CFR 60, Appendix A (1986), and ASTM D 2504-83, both incorporated by reference in Section 215.105.

H_i = Net heat of combustion of sample component i , kcal/gmole. The heats of combustion may be determined using ASTM D 2382-83, incorporated by reference in Section 215.105, if published values are not available or cannot be calculated.

2654

- 2655 5) Steam-assisted and nonassisted flares shall be designed and operated with
2656 an exit velocity, as determined by dividing the volumetric flowrate (in
2657 units of standard temperature and pressure), as determined by USEPA
2658 Reference Method 2 or 2A, 40 CFR 60, Appendix A (1986) incorporated
2659 by reference in Section 215.105, as appropriate; by the unobstructed (free)

2660 cross sectional area of the flare tip, less than 18 m/sec (60 ft/sec.).

2661
2662 6) Air-assisted flares shall be designed and operated with an exit velocity less
2663 than the maximum permitted velocity, V_{\max} , as determined by the
2664 following equation:
2665

$$\begin{aligned} V_{\max} &= \text{Maximum permitted velocity, m/sec.} \\ 8.706 &= \text{Constant.} \\ 0.7084 &= \text{Constant.} \\ H_r &= \text{The net heating value as determined in subsection (c)(4)} \\ &\text{of this section.} \end{aligned}$$

2666
2667 d) If the control device is a closed container, it shall be designed and operated to
2668 reduce the volatile organic material emissions, vented from purged process fluid
2669 after transfer, to no detectable volatile organic material emissions as determined
2670 by USEPA Reference Method 21 as specified at 40 CFR 60, Appendix A (1986),
2671 incorporated by reference in Section 215.105. For purposes of this Section, the
2672 phrase "after transfer" shall refer to the time at which the entire amount of purged
2673 process fluid resulting from a flushing or cleaning of the sample line enters the
2674 closed container or containers including the final container(s) prior to disposal.

2675
2676 e) The owner or operator of a control device shall monitor the control device to
2677 ensure that it is operated and maintained in conformance with the manufacturer's
2678 specifications, modified to the particular process design.

2679
2680 f) The control device shall be operated at all times when emissions may be vented to
2681 it.

2682
2683 (Source: Former Section 215.438 renumbered to Section 215.439, new Section 215.438
2684 adopted at 13 Ill. Reg. 10893, effective June 27, 1989)

2685
2686 **Section 215.439 Compliance Date**

2687
2688 The owner or operator of a synthetic organic chemical or polymer manufacturing plant subject to
2689 Sections 215.430 through 215.439 shall comply with the standards and limitations of those
2690 Sections no later than December 31, 1987.

2691
2692 (Source: Former Section 215.439 renumbered from Section 215.438 and amended at 13
2693 Ill. Reg. 10893, effective June 27, 1989)

2694
2695 **SUBPART R: PETROLEUM REFINING AND RELATED**
2696 **INDUSTRIES; ASPHALT MATERIALS**

2697
2698 **Section 215.441 Petroleum Refinery Waste Gas Disposal**

2699
2700 a) Except as provided in subsections (b) or (c), no person shall cause or allow the

2701 discharge of organic materials in excess of 100 ppm equivalent methane
2702 (molecular weight 16.0) into the atmosphere from:

- 2703
- 2704 1) Any catalyst regenerator of a petroleum cracking system; or
 - 2705
 - 2706 2) Any petroleum fluid coker; or
 - 2707
 - 2708 3) Any other waste gas stream from any petroleum or petrochemical
 - 2709 manufacturing process.

2710

b) Exception. Existing sources subject to subsection (a)(3) may, alternatively, at
2711 their election, comply with the organic material emission limitations imposed by
2712 Section 215.301 or 215.302; provided, however, that there shall be no increase in
2713 emissions from such sources above the level of emissions in existence on May 3,
2714 1979.

2715

c) New Sources. Sources subject to subsection (a)(3), construction of which
2716 commenced on or after January 1, 1977, may, at their election, comply with the
2717 following emission limitations:

- 2718 1) A maximum of eight pounds per hour of organic material; or
- 2719
- 2720 2) Emission of organic material in excess of the limitation of subsection
- 2721 (c)(1) is allowable if such emissions are controlled by air pollution control
- 2722 methods or equipment approved by the Agency capable of reducing by 85
- 2723 percent or more the uncontrolled organic material that would otherwise be
- 2724 emitted to the atmosphere.
- 2725
- 2726
- 2727
- 2728

2729 (Source: Amended 3 Ill. Reg. 30, p. 124, effective July 29, 1979)

2730

2731 **Section 215.442 Vacuum Producing Systems**

2732

2733 No owner or operator of a petroleum refinery shall cause or allow the operation of any vacuum
2734 producing system unless the condensers, hot wells and accumulators of any such system are
2735 equipped with vapor loss control equipment including, but not limited to, piping, valves, flame
2736 arrestors and hot well covers to vent any volatile organic material with a vapor pressure of 10.34
2737 kPa (1.5 psia) or greater at 294.3 K (70 F) to a heater, fire box, flare, refinery fuel gas system or
2738 other equipment or system of equal emission control as approved by the Agency. This Section
2739 shall not apply to vacuum producing systems on lube units.

2740

2741 (Source: Amended at 12 Ill. Reg. 815, effective December 24, 1987)

2742

2743 **Section 215.443 Wastewater (Oil/Water) Separator**

2744

2745 No owner or operator of a petroleum refinery shall operate any wastewater (oil/water) separator
2746 at a petroleum refinery unless the separator is equipped with air pollution control equipment

2747 capable of reducing by 85 percent or more the uncontrolled organic material emitted to the
2748 atmosphere. If no odor nuisance exists, the limitation of this Section shall not apply if the vapor
2749 pressure of the organic material is below 10.34 kPa (1.5 psia) at 204.3 K (70 F) at all times.

2750

2751 (Source: Amended at 12 Ill. Reg. 815, effective December 24, 1987)

2752

2753 **Section 215.444 Process Unit Turnarounds**

2754

2755 a) No owner or operator of a petroleum refinery shall cause or allow a refinery
2756 process unit turnaround except in compliance with an operating procedure as
2757 approved by the Agency.

2758

2759 b) Unless a procedure is already on file with the Agency as part of an approved
2760 operating permit no later than November 1, 1979, the owner or operator of a
2761 petroleum refinery shall submit to the Agency for approval a detailed procedure
2762 for reducing emissions of volatile organic material during refinery process unit
2763 turnarounds from organic material with a vapor pressure of 10.34 kPa (1.5 psia)
2764 or greater at 294.3 K (70 F). The Agency shall not approve the procedure unless
2765 it provides for:

2766

2767 1) Depressurization of the refinery process unit or vessel to a flare, refinery
2768 fuel gas system or other equipment or system of equal emission control, as
2769 approved by the Agency, until the internal pressure from the vessel or unit
2770 is less than 5.0 psig before allowing the vessel to be vented to the
2771 atmosphere;

2772

2773 2) Recordkeeping of the following items:

2774

2775 A) Each date that a refinery unit or vessel is shut down; and

2776

2777 B) The total estimated quantity of volatile organic material emitted to
2778 the atmosphere and the duration of the emission in hours.

2779

2780 (Source: Amended at 12 Ill. Reg. 815, effective December 24, 1987)

2781

2782 **Section 215.445 Leaks: General Requirements**

2783

2784 a) The owner or operator of a petroleum refinery shall:

2785

2786 1) Develop a monitoring program plan consistent with the provisions of
2787 Section 215.446;

2788

2789 2) Conduct a monitoring program consistent with the provisions of Section
2790 215.447;

2791

2792 3) Conduct all tests for leaks in accordance with Method 21, 40 CFR 60,

- 2793 Appendix A, incorporated by reference in Section 215.105.
2794
2795 4) Record all leaking components which have a volatile organic material
2796 concentration exceeding 10,000 ppm consistent with the provisions of
2797 Section 215.448;
2798
2799 5) Identify each component consistent with the monitoring program plan
2800 submitted pursuant to Section 215.446;
2801
2802 6) Repair and retest the leaking components as soon as possible within 22
2803 days after the leak is found, but no later than June 1 for the purposes of
2804 Section 215.447(a)(1), unless the leaking components cannot be repaired
2805 until the unit is shut down for turnaround; and
2806
2807 7) Report to the Agency consistent with the provisions of Section 215.449.
2808
2809 b) A component shall be considered to be leaking if the volatile organic material
2810 concentration exceeds 10,000 ppm when measured at a distance of 0 cm from the
2811 component as determined by Method 21, 40 ~~CFRC.F.R.~~ 60, Appendix A,
2812 incorporated by reference in Section 215.105.
2813

2814 (Source: Amended at 14 Ill. Reg. 9173, effective May 23, 1990)
2815

2816 **Section 215.446 Monitoring Program Plan for Leaks**

2817
2818 The owner or operator of a petroleum refinery shall prepare a monitoring program plan which
2819 contains, at a minimum:

- 2820
2821 a) An identification of all refinery components and the period in which each will be
2822 monitored pursuant to Section 215.447;
2823
2824 b) The format for the monitoring log required by Section 215.448;
2825
2826 c) A description of the monitoring equipment to be used pursuant to Section
2827 215.447; and
2828
2829 d) A description of the methods to be used to identify all pipeline valves, pressure
2830 relief valves in gaseous service and all leaking components such that they are
2831 obvious to both refinery personnel performing monitoring and Agency personnel
2832 performing inspections.
2833

2834 (Source: Amended at 7 Ill. Reg. 1244, effective January 21, 1983)
2835

2836 **Section 215.447 Monitoring Program for Leaks**

- 2837
2838 a) The owner or operator of a petroleum refinery subject to Section 215.445 shall,

2839 for the purpose of detecting leaks, conduct a component monitoring program
2840 consistent with the following provisions:

- 2841
- 2842 1) Test all pressure relief valves in gaseous service, pump seals, pipeline
2843 valves, process drains and compressor seals by methods and procedures
2844 approved by the Agency not earlier than March 1 or later than June 1 of
2845 each year;
 - 2846
 - 2847 2) Again test all pressure relief valves in gaseous service, pipeline valves in
2848 gaseous service and compressor seals by methods and procedures
2849 approved by the Agency not earlier than June 1 or later than August 1 of
2850 each year;
 - 2851
 - 2852 3) Observe visually all pump seals weekly;
 - 2853
 - 2854 4) Test immediately any pump seal from which liquids are observed
2855 dripping;
 - 2856
 - 2857 5) Test any relief valve within 24 hours after it has vented to the atmosphere;
2858 and
 - 2859
 - 2860 6) Test immediately after repair any component that was found leaking.
 - 2861
 - 2862 b) Inaccessible valves, storage tank valves and pressure relief devices connected to
2863 an operating flare header or vapor recovery device are exempt from the
2864 monitoring requirements in Subsection (a).
 - 2865
 - 2866 c) The Agency may require more frequent monitoring than would otherwise be
2867 required by Subsection (a) for components which are demonstrated to have a
2868 history of leaking.
 - 2869

2870 (Source: Amended at 7 Ill. Reg. 1244, effective January 21, 1983)

2871

2872 **Section 215.448 Recordkeeping for Leaks**

2873

- 2874 a) The owner or operator of a petroleum refinery shall maintain a leaking
2875 components monitoring log which shall contain, at a minimum, the following
2876 information:
- 2877
 - 2878 1) The name of the process unit where the component is located;
 - 2879
 - 2880 2) The type of component (e.g., valve, seal);
 - 2881
 - 2882 3) The identification number of the component;
 - 2883
 - 2884 4) The date on which a leaking component is discovered;

- 2885
2886 5) The date on which a leaking component is repaired;
2887
2888 6) The date and instrument reading of the recheck procedure after a leaking
2889 component is repaired;
2890
2891 7) A record of the calibration of the monitoring instrument;
2892
2893 8) The identification number of leaking components which cannot be
2894 repaired until turn-around; and
2895
2896 9) The total number of components inspected and the total number of
2897 components found leaking during that monitoring period.
2898
2899 b) Copies of the monitoring log shall be retained by the owner or operator for a
2900 minimum of two years after the date on which the record was made or the report
2901 prepared.
2902
2903 c) Copies of the monitoring log shall be made available to the Agency, upon verbal
2904 or written request, at any reasonable time.
2905

2906 (Source: Amended at 7 Ill. Reg. 1244, effective January 21,1983)
2907

2908 **Section 215.449 Reporting for Leaks**

2909 The owner or operator of a petroleum refinery shall:
2910

- 2911
2912 a) Submit a report to the Agency prior to the 1st day of both July and September
2913 listing all leaking components identified pursuant to Section 215.447 but not
2914 repaired within 22 days, all leaking components awaiting unit turnaround, the
2915 total number of components inspected and the total number of components found
2916 leaking;
2917
2918 b) Submit a signed statement with the report attesting that all monitoring and repairs
2919 were performed as required under Sections 215.445 through 215.448.
2920

2921 (Source: Amended at 7 Ill. Reg. 1244, effective January 21, 1983)
2922

2923 **Section 215.450 Alternative Program for Leaks**

2924
2925 The Agency may approve an alternative program of monitoring, recordkeeping, and/or reporting
2926 to that prescribed in Sections 215.446 through 215.449, upon a demonstration by the owner or
2927 operator of a petroleum refinery that the alternative program will provide refinery and Agency
2928 personnel with an equivalent ability to identify and repair leaking components. The owner or
2929 operator utilizing an alternative monitoring program shall submit to the Agency an alternative
2930 monitoring program plan consistent with the provisions of Section 215.446.

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(Source: Amended at 7 Ill. Reg. 1244, effective January 21, 1983)

Section 215.451 Sealing Device Requirements

Except for safety pressure relief valves, no owner or operator of a petroleum refinery shall install or operate a valve at the end of a pipe or line containing volatile organic materials unless the pipe or line is sealed with a second valve, blind flange, plug, cap or other sealing device. The sealing device may be removed only when a sample is being taken or during maintenance operations.

(Source: Amended at 7 Ill. Reg. 1244, effective January 21, 1983)

Section 215.452 Compliance Schedule for Leaks

The owner or operator of a petroleum refinery shall adhere to the increments of progress contained in the following schedule:

- a) Submit to the Agency a monitoring program plan consistent with Section 215.446 prior to June 1, 1983.
- b) Submit the first monitoring report pursuant to Section 215.449 to the Agency prior to July 1, 1983.

(Source: Amended at 7 Ill. Reg. 1244, effective January 21, 1983)

Section 215.453 Compliance Dates and Geographical Areas

- a) Except as otherwise stated in subsection (b), every owner or operator of an emission source subject to Sections 215.445 through 215.451 shall comply with those standards and limitations in accordance with Section 215.452.
- b) If an emission source is not located in one of the counties listed below and is also not located in any county contiguous thereto, the owner or operator of the emission source shall comply with the requirements of Sections 215.445 through 215.451 no later than December 31, 1987:

Cook	Macoupin
DuPage	Madison
Kane	Monroe
Lake	Saint Clair

(BOARD NOTE: These counties are proposed to be designated as nonattainment by the USEPA, at 47 Fed. Reg. 31588, July 21, 1982)

- c) Notwithstanding subsection (b), if any county is designated as nonattainment by the USEPA at any time subsequent to the effective date of this Section, the owner

2973 or operator of an emission source located in that county or any county contiguous
2974 to that county who would otherwise be subject to the compliance date in
2975 subsection (b) shall comply with the requirements of Sections 215.445 through
2976 215.451 within one year from the date of redesignation but in no case later than
2977 December 31, 1987.

2978

2979 (Source: Amended at 7 Ill. Reg. 1244, effective January 21, 1983)

2980

2981 **SUBPART S: RUBBER AND MISCELLANEOUS**
2982 **PLASTIC PRODUCTS**

2983

2984 **Section 215.461 Manufacture of Pneumatic Rubber Tires**

2985

2986 The owner or operator of an undertread cementing, treadend cementing or bead dipping
2987 operation at a pneumatic rubber tire manufacturing facility shall install and operate:

2988

2989 a) A capture system, with minimum capture efficiency of 65 percent by weight of
2990 volatile organic material for treadend cementing or bead dipping operations and a
2991 capture system with a minimum capture efficiency of 55.5 percent by weight of
2992 volatile organic material for undertread cementing; and

2993

2994 b) A control device that meets the requirements of one of the following:

2995

2996 1) A carbon adsorption system designed and operated in a manner such that
2997 there is at least a 90 percent removal of volatile organic material by weight
2998 from the gases ducted to the control device;

2999

3000 2) An afterburning system that oxidizes at least 90 percent of the captured
3001 nonmethane volatile organic materials (VOM measured as total
3002 combustible carbon) to carbon dioxide and water; and

3003

3004 3) An alternative volatile organic material emission reduction system
3005 demonstrated to have at least a 90 percent overall reduction efficiency and
3006 approved by the Agency.

3007

3008 (Source: Added at 7 Ill. Reg. 1244, effective January 21, 1983)

3009

3010 **Section 215.462 Green Tire Spraying Operations**

3011

3012 The owner or operator of a green tire spraying operation at a pneumatic rubber tire
3013 manufacturing facility shall:

3014

3015 a) Install and operate:

3016

3017 1) A capture system with a minimum capture efficiency of 90 percent by
3018 weight of volatile organic material; and

- 3019
3020 2) A control device that meets the requirements of one of the following:
3021
3022 A) A carbon adsorption system designed and operated in a manner
3023 such that there is at least 90 percent removal of volatile organic
3024 material by weight from the bases ducted to the control device;
3025
3026 B) An afterburning system that oxidizes at least 90 percent of the
3027 captured non-methane volatile organic material (measured as total
3028 combustible carbon) to carbon dioxide and water; or
3029
3030 C) An alternative volatile organic material emission reduction system
3031 demonstrated to have at least a 90 percent overall reduction
3032 efficiency and approved by the Agency.
3033
3034 b) Substitute for the normal solvent-based mold release compound water-based
3035 sprays containing:
3036
3037 1) No more than five percent by volume of volatile organic material as
3038 applied for the inside of tires;
3039
3040 2) No more than ten percent by volume of volatile organic material as
3041 applied for the outside of tires.
3042

3043 (Source: Added at 7 Ill. Reg. 1244, effective January 21, 1983)
3044

3045 **Section 215.463 Alternative Emission Reduction Systems** 3046

3047 In lieu of complying with Section 215.461 or 215.462, the owner or operator of an emission
3048 source may utilize an alternative volatile organic emission reduction system, including an
3049 alternative production process, which is ~~demonstrated~~demonstrated to be equivalent to Section
3050 215.461 or 215.462 on the basis of emissions of volatile organic matter. A treadend cementing
3051 operation shall be considered equivalent to Section 215.461 or 215.462 for the purposes of this
3052 Section if the total volatile organic emission from such operation is 10 grams or less per tire.
3053

3054 (Source: Added at 7 Ill. Reg. 1244, effective January 21, 1983)
3055

3056 **Section 215.464 Emissions Testing and Monitoring** 3057

- 3058 a) Any tests of volatile organic material emissions, including tests conducted to
3059 determine control equipment efficiency or control device destruction efficiency,
3060 shall be conducted in accordance with the methods and procedures specified in
3061 Section 215.102.
3062
3063 b) Upon a reasonable request by the Agency, the owner or operator of a volatile
3064 organic material emission source required to comply with a limit of Sections

3065 215.461 through 215.464 shall conduct emissions testing, at such person's own
3066 expense, to demonstrate compliance.

3067
3068 c) A person planning to conduct a volatile organic material emission test to
3069 demonstrate compliance shall notify the Agency of that intent not less than 30
3070 days before the planned initiation of the tests so the Agency may observe the test.

3071
3072 (Source: Amended at 14 Ill. Reg. 9173, effective May 23, 1990)

3073
3074 **Section 215.465 Compliance Dates and Geographical Areas**

3075
3076 a) Except as otherwise stated in subsection (b), every owner or operator of an
3077 emission source subject to Sections 215.461 through 215.464 shall comply with
3078 the standards and limitations of this Part by December 31, 1983.

3079
3080 b) If an emission source is not located in one of the counties listed below and is also
3081 not located in any county contiguous thereto, the owner or operator of the
3082 emission source shall comply with the requirements of Sections 215.461 through
3083 215.464 no later than December 31, 1987:

Cook	Macoupin
DuPage	Madison
Kane	Monroe
Lake	Saint Clair

3084
3085
3086 (BOARD NOTE: These counties are proposed to be designated as nonattainment
3087 by the USEPA at 47 Fed. Reg. 31588, July 21, 1982)

3088
3089 c) Notwithstanding subsection (b), if any county is designated as nonattainment by
3090 the USEPA at any time subsequent to the effective date of this Section, the owner
3091 or operator of an emission source located in that county or any county contiguous
3092 to that county who would otherwise be subject to the compliance date in
3093 subsection (b) shall comply with the requirements of Sections 215.461 through
3094 215.464 within one year from the date of redesignation but in no case later than
3095 December 31, 1987.

3096
3097 (Source: Added at 7 Ill. Reg. 1244, effective January 21, 1983)

3098
3099 **Section 215.466 Compliance Plan**

3100
3101 ~~a) The owner or operator of an emission source subject to Section 215.465(a) shall~~
3102 ~~submit to the Agency a compliance plan, pursuant to 35 Ill. Adm. Code 201,~~
3103 ~~Subpart H, including a project completion schedule where applicable, no later~~
3104 ~~than April 21, 1983.~~

3105
3106 ~~b) The owner or operator of an emission source subject to Section 215.465(b) shall~~

3107 ~~submit to the Agency a compliance plan, including a project completion schedule~~
3108 ~~where applicable, no later than December 31, 1986.~~

3109
3110 ~~e) The owner or operator of an emission source subject to Section 215.465(c) shall~~
3111 ~~submit a compliance plan, including a project completion schedule within 90 days~~
3112 ~~after the date of redesignation, but in no case later than December 31, 1986.~~

3113
3114 ~~d) Unless the submitted compliance plan or schedule is disapproved by the Agency,~~
3115 ~~the owner or operator of a facility or emission source subject to the rules specified~~
3116 ~~in subsections (a), (b) or (c) may operate the emission source according to the~~
3117 ~~plan and schedule as submitted.~~

3118
3119 ~~e) The plan and schedule shall meet the requirements of 35 Ill. Adm. Code 201,~~
3120 ~~Subpart H, including specific interim dates as required in 35 Ill. Adm. Code~~
3121 ~~201.242.~~

3122
3123 (Source: Added at 7 Ill. Reg. 1244, effective January 21, 1983)

3124 3125 **Section 215.467 Testing Methods for Volatile Organic Material Content**

3126
3127 The volatile organic material content for all VOM emitting materials except printing inks shall
3128 be determined by Method 24, 40 CFR 60, Appendix A, incorporated by reference in Section
3129 215.105. Any alternate test method must be approved by the Agency, which shall consider data
3130 comparing the performance of the proposed alternative to the performance of the approved test
3131 method(s). If the Agency determines that such data demonstrates that the proposed alternative
3132 will achieve results equivalent to the approved test method(s), the Agency shall approved the
3133 proposed alternative.

3134
3135 (Source: Added at 14 Ill. Reg. 9173, effective May 23, 1990)

3136 3137 **SUBPART T: PHARMACEUTICAL MANUFACTURING**

3138 3139 **Section 215.480 Applicability of Subpart T**

3140
3141 a) The rules of this Subpart, except for Sections 215.483 through 215.485, apply to
3142 all emission sources of volatile organic material, including but not limited to
3143 reactors, distillation units, dryers, storage tanks for volatile organic liquids,
3144 equipment for the transfer of volatile organic liquids, filters, crystallizers,
3145 washers, laboratory hoods, pharmaceutical coating operations, mixing operations
3146 and centrifuges used in manufacturing, including packaging, of pharmaceuticals,
3147 and emitting more than 6.8 kg/day (15 lbs/day) of volatile organic material and
3148 more than 2268 kg/year (2.5 tons/year) of volatile organic material. If an emission
3149 source emits less than 2,268 kg/year (2.5 tons/year) of volatile organic material,
3150 the requirements of this Subpart, except for Sections 215.483 through 215.485,
3151 still apply to the emission source if volatile organic material emissions from the
3152 emission source exceed 45.4 kg/day (100 lbs/day).

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- b) Notwithstanding subsection (a), the air suspension coater/dryer, fluid bed dryers, tunnel dryers and Accelacotas located in Libertyville Township, Lake County, Illinois shall be exempt from the rules of this Subpart, except for Sections 215.483 through 215.485, if emissions of volatile organic material not vented to air pollution control equipment do not exceed the following levels: for the air suspension coater/dryer: 2268 kg/year (2.5 tons per year); for each fluid bed dryer: 4535 kg per year (5.0 tons per year); and for each tunnel driver: 6803 kg per year (7.5 tons per year); and for each Accelacota: 6803 kg per year (7.5 tons per year).
- c) Sections 215.483 through 215.485 apply to a plant having one or more emission sources that:
 - 1) are used to manufacture pharmaceuticals; and
 - 2) emit more than 6.8 kg/day (15 lbs/day) of volatile organic material and more than 2268 kg/year (2.5 tons/year) of volatile organic material, or, if less than 2.5 tons/year, these sections still apply if emissions from one or more emission sources exceed 45.4 kg/day (100 lbs/day).
- d) No person shall violate any condition in a permit when the condition results in exclusion of an emission source from this Subpart.
- e) Emissions subject to this Subpart shall be controlled at all times, consistent with the requirements set forth in this Subpart.
- f) Control devices required pursuant to Section 215.483 shall be operated at all times.
- g) If a pharmaceutical manufacturing emission source becomes subject to the provisions of Section 215.481, 215.482 or 215.486 on or after the compliance date specified in Section 215.490(a), the requirements of such section shall continue to apply to the emission source even if there is a reduction in emissions as to be below the applicability criteria of this Section.
- h) Determinations of daily and/or annual emissions
 - 1) Determinations of daily and/or annual emissions for purposes of this Section shall be made using:
 - (A) data on the hourly emission rate or the emission per unit of throughput, and
 - (B) appropriate daily and annual data from records of emission source operation or material throughput, or material consumption.

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- 2) In the absence of representative test data pursuant to Section 215.487 for the hourly emission rate or emission rate per unit of throughput, such items shall be determined using engineering calculations, including the methods described in Appendix B of "Control of Volatile Organic Emissions from Manufacture of Synthesized Pharmaceutical Products", incorporated by reference at Section 215.105.
- 3) This subsection shall not affect the Agency's authority to require emissions tests to be performed pursuant to Section 215.487.

(Source: Amended at 15 Ill. Reg. 8018, effective May 14, 1991)

Section 215.481 Control of Reactors, Distillation Units, Crystallizers, Centrifuges and Vacuum Dryers

- a) The owner or operator shall control all reactors, distillation units, crystallizers, centrifuges and vacuum dryers that are used to manufacture pharmaceuticals with surface condensers or other air pollution control equipment listed in subsection (a)(2).
 - 1) If a surface condenser is used, it shall be operated such that the condenser outlet gas temperature does not exceed:
 - A) 248.2 K (-13 F) when condensing volatile organic material of vapor pressure greater than 40.0 kPa (5.8 psi) at 294.3 K (70 F); or
 - B) 258.2 K (5 F) when condensing volatile organic material of vapor pressure greater than 20.0 kPa (2.9 psi) at 294.3 K (70 F); or
 - C) 273.2 K (32 F) when condensing volatile organic material of vapor pressure greater than 10.0 kPa (1.5 psi) at 294.3 K (70 F); or
 - D) 283.2 K (50 F) when condensing volatile organic material of vapor pressure greater than 7.0 kPa (1.0 psi) at 294.3 K (70 F); or
 - E) 298.2 K (77 F) when condensing volatile organic material of vapor pressure greater than 3.45 kPa (0.5 psi) at 294.3 K (70 F).
 - 2) If a scrubber, carbon adsorber, thermal incinerator, catalytic incinerator or other air pollution control equipment other than a surface condenser is used, such equipment shall provide a reduction in the emissions of volatile organic material of 90 percent or more.
- b) The owner or operator shall enclose all centrifuges used to manufacture pharmaceuticals and that have an exposed volatile organic liquid surface, where

3245 the volatile organic material in the volatile organic liquid has a vapor pressure of
3246 3.45 kPa (0.5 psi) or more at 294.3 K (70 F), except as production, sampling,
3247 maintenance or inspection procedures require operator access.
3248

3249 (Source: Amended at 15 Ill. Reg. 8018, effective May 14, 1991)
3250

3251 **Section 215.482 Control of Air Dryers, Production Equipment Exhaust Systems and**
3252 **Filters**

3253
3254 a) The owner or operator of an air dryer or production equipment exhaust system
3255 used to manufacture pharmaceuticals shall control the emissions of volatile
3256 organic material from such emission sources by air pollution control equipment
3257 which reduces by 90 percent or more the volatile organic material that would
3258 otherwise be emitted into the atmosphere.
3259

3260 b) The owner or operator shall enclose all rotary vacuum filters and other filters used
3261 to manufacture pharmaceuticals and that have an exposed volatile organic liquid
3262 surface, where the volatile organic material in the volatile organic liquid has a
3263 vapor pressure of 3.45 kPa (0.5 psi) or more at 294.3 K (70 F), except as
3264 production, sampling, maintenance or inspection procedures require operator
3265 access.
3266

3267 (Source: Amended at 15 Ill. Reg. 8018, effective May 14, 1991)
3268

3269 **Section 215.483 Material Storage and Transfer**

3270
3271 The owner or operator of a pharmaceutical manufacturing plant shall:
3272

3273 a) Provide a vapor balance system that is at least 90.0 percent effective in reducing
3274 volatile organic material emissions from truck or railcar deliveries to storage
3275 tanks with capacities equal to or greater than 7.57m (2,000 gallons) that store
3276 volatile organic liquids with vapor pressures greater than 28.0 kPa (4.1 psi) at
3277 294.3 K (70 F); and
3278

3279 b) Install, operate and maintain pressure/vacuum conservation vents set at 0.2 kPa
3280 (0.03 psi) or greater on all storage tanks that store volatile organic liquids with
3281 vapor pressures greater than 10 kPa (1.5 psi) at 294.3 K (70 F).
3282

3283 (Source: Amended at 15 Ill. Reg. 8018, effective May 14, 1991)
3284

3285 **Section 215.484 In-Process Tanks**

3286
3287 The owner or operator shall install covers on all in-process tanks used to manufacture
3288 pharmaceuticals and containing a volatile organic liquid at any time. These covers must remain
3289 closed, except as production, sampling, maintenance, or inspection procedures require operator
3290 access.

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(Source: Amended at 15 Ill. Reg. 8018, effective May 14, 1991)

Section 215.485 Leaks

The owner or operator of a pharmaceutical manufacturing plant shall repair any component from which a leak of volatile organic liquid can be observed. The repair shall be completed as soon as practicable but no later than 15 days after the leak is found. If the leaking component cannot be repaired until the process unit is shut down, the leaking component must then be repaired before the unit is restarted.

(Source: Added at 12 Ill. Reg. 7650, effective April 11, 1988)

Section 215.486 Other Emission Sources

The owner or operator of a washer, laboratory hood, tablet coating operation, mixing operation, or any other process emission source not subject to Section 215.481 through 215.485 of this Subpart, and used to manufacture pharmaceuticals shall control the emissions of volatile organic material from such emission sources by:

- a) Air pollution control equipment which reduces by 81 percent or more the volatile organic material that would otherwise be emitted to the atmosphere, or
- b) A surface condenser which captures all the volatile organic material which would otherwise be emitted to the atmosphere and which meets the requirements of Section 215.481(a) of this Subpart.

(Source: Amended at 15 Ill. Reg. 8018, effective May 14, 1991)

Section 215.487 Testing

- a) Upon reasonable request by the Agency, the owner or operator of any volatile organic material emission source subject to this Subpart or exempted from this Subpart by provisions of Section 215.480(a), (b) or (c) shall, at his own expense, demonstrate compliance to the Agency by methods or procedures listed in Section 215.487(c); and
- b) A person planning to conduct a volatile organic material emissions test to demonstrate compliance with or determine applicability of provisions of this Subpart shall notify the Agency of that intent to test not less than 30 calendar days prior to the planned initiation of the test.
- c) Test procedures to determine compliance with and applicability of this Subpart are in 40 CFR Part 60, Appendix A, incorporated by reference at Section 215.105, and shall be used as delineated below:

- 3337 1) 40 CFR 60, Appendix A, Methods 18, 25 or 25A, as appropriate to the
3338 conditions at the site, shall be used to determine VOM concentration.
3339 Method selection shall be based on consideration of the diversity of
3340 organic species present and their total concentration and on consideration
3341 of the potential presence of interfering gases. Except as indicated in
3342 subsections (c)(1)(A) and (c)(1)(B), the test shall consist of three separate
3343 runs, each lasting a minimum of 60 minutes, unless the Agency
3344 determines that process variables dictate shorter sampling times.
3345
3346 A) When the method is to be used to determine the efficiency of a
3347 fixed-bed carbon adsorption system with a common exhaust stack
3348 for all the individual adsorber vessels, the test shall consist of three
3349 separate runs, each coinciding with one or more complete
3350 sequences through the adsorption cycles of all the individual
3351 adsorber vessels.
3352
3353 B) When the method is to be used to determine the efficiency of a
3354 fixed-bed carbon adsorption system with individual exhaust stacks
3355 for each adsorber vessel, each adsorber vessel shall be tested
3356 individually. The test for each adsorber vessel shall consist of three
3357 separate runs. Each run shall coincide with one or more complete
3358 adsorption cycles.
3359
3360 2) 40 CFR Part 60, Appendix A, Method 1 or 1A shall be used for sample
3361 and velocity traverses.
3362
3363 3) 40 CFR Part 60, Appendix A, Method 2, 2A, 2C or 2D shall be used for
3364 velocity and volumetric flow rates.
3365
3366 4) 40 CFR Part 60, Appendix A, Method 3 shall be used for gas analysis.
3367
3368 5) 40 CFR Part 60, Appendix A, Method 4 shall be used for stack gas
3369 moisture.
3370
3371 6) 40 CFR Part 60, Appendix A, Methods 2, 2A, 2C, 2D, 3 and 4 shall be
3372 performed, as applicable, at least twice during each test run.
3373
3374 d) This section shall not affect the authority of the U.S. Environmental Protection
3375 Agency under Section 114 of the Clean Air Act.
3376

3377 (Source: Amended at 15 Ill. Reg. 8018, effective May 14, 1991)
3378

3379 **Section 215.488 Monitors for Air Pollution Control Equipment**
3380

- 3381 a) At a minimum, continuous monitors for the following parameters shall be
3382 installed on air pollution control equipment subject to this Subpart:

- 3383
3384 1) Destruction device combustion temperature;
3385
3386 2) Temperature rise across a catalytic afterburner bed;
3387
3388 3) Breakthrough of volatile organic material on a carbon adsorption unit;
3389
3390 4) Outlet gas temperature of a refrigerated condenser;
3391
3392 5) Temperature of a non-refrigerated condenser coolant supply system.
3393
3394 b) Each monitor shall be equipped with a recording device.
3395
3396 c) Each monitor shall be calibrated quarterly.
3397
3398 d) Each monitor shall operate at all times while the associated control equipment is
3399 operating.

3400
3401 (Source: Amended at 15 Ill. Reg. 8018, effective May 14, 1991)
3402

3403 **Section 215.489 Recordkeeping (Renumbered)**
3404

- 3405 a) The owner or operator of a pharmaceutical manufacturing plant shall maintain the
3406 following records:
3407
3408 1) The parameters listed in Section 215.488 shall be recorded.
3409
3410 2) For sources subject to Section 215.482, the vapor pressure of the volatile
3411 organic material being controlled shall be recorded for every process.
3412
3413 b) For any leak subject to Section 215.485 which cannot be readily repaired within
3414 one hour after detection, the following records shall be kept:
3415
3416 1) The name of the leaking equipment.
3417
3418 2) The date and time the leak is detected.
3419
3420 3) The action taken to repair the leak.
3421
3422 4) The date and time the leak is repaired.
3423
3424 c) The following records shall be kept for emission sources subject to Section
3425 215.484 which contain volatile organic liquid:
3426
3427 1) For maintenance and inspection:
3428

- 3429 A) The date and time each cover is opened.
3430
3431 B) The length of time the cover remains open.
3432
3433 C) The reason why the cover is opened.
3434
3435 2) For production and sampling, written procedures or manufacturing
3436 directions specifying the circumstances under which covers may be
3437 opened and the procedures for opening covers.
3438
3439 d) For each emission source used in manufacture of pharmaceuticals for which the
3440 owner or operator of a pharmaceutical manufacturing plant claims emission
3441 standards are not applicable because the emissions are below the applicability
3442 cutoff in Section 215.480(a) or (b), the owner or operator shall:
3443
3444 1) Maintain a demonstration, including detailed engineering calculations, of
3445 the maximum daily and annual emissions for each such emission source
3446 showing that the emissions are below the applicability cutoffs in Section
3447 215.480(a) or (b), as appropriate, for the current and prior calendar years;
3448
3449 2) Maintain operating records for each emission source to identify whether
3450 the cutoffs in Section 215.480(a) or (b), as appropriate, are ever exceeded;
3451 and
3452
3453 3) Provide written notification to the Agency within 30 days of a
3454 determination that such an emissions source has exceeded the applicability
3455 cutoff of Section 215.480(a) or (b), as appropriate.
3456
3457 e) Records required under this section shall be maintained by the owner or operator
3458 for a minimum of two years after the date on which they are made.
3459
3460 f) Copies of the records shall be made available to the Agency upon verbal or
3461 written request.
3462

3463 (Source: Renumbered to Section 215.490, and added at 15 Ill. Reg. 8018, effective May
3464 14, 1991)
3465

3466 **Section 215.490 Compliance Schedule (Renumbered)**
3467

- 3468 a) The owner or operator of an emission source subject to this Subpart, the
3469 construction or modification of which has commenced prior to (the effective date
3470 of these amendments), must complete on-site construction, modification or
3471 installation of the emission control and/or process equipment or complete any
3472 necessary production process changes so as to operate in compliance with this
3473 Subpart by April 30, 1991.
3474

3475 b) The owner and operator of any emission source subject to this Subpart, the
3476 construction or modification of which has not commenced prior to (the effective
3477 date of these amendments), shall construct such source so that it will operate in
3478 compliance with this Subpart.
3479

3480 (Source: Renumbered from Section 215.489 and amended at 15 Ill. Reg. 8018, effective
3481 May 14, 1991)
3482

3483 SUBPART U: COKE MANUFACTURE AND
3484 BY-PRODUCT RECOVERY
3485

3486 **Section 215.500 Exceptions**
3487

3488 The provisions of Subpart K shall not apply to coke by-product recovery plant.
3489

3490 (Source: Added at 9 Ill. Reg. 13960, effective August 28, 1985)
3491

3492 **Section 215.510 Coke By-Product Recovery Plants**
3493

3494 The owner or operator of a coke by-product recovery plant shall reduce the uncontrolled
3495 emissions of volatile organic materials by at least 85 percent from the following sources, as
3496 defined:
3497

- 3498 a) Tar decanter, which is a rectangular vessel used to separate tar and flushing liquor
3499 by means of gravity;
3500
- 3501 b) Light oil sump, which receives wastewater from process equipment from the light
3502 oil recovery portion of a coke by-product recovery plant;
3503
- 3504 c) Light oil condensor/separator, which is a device used to condense or separate light
3505 oil from which the non-condensable constituents are vented; and
3506
- 3507 d) Tar condensate sump, which receives water condensate streams from the tar
3508 recovery process equipment.
3509

3510 (Source: Added at 9 Ill. Reg. 13960, effective August 28, 1985)
3511

3512 **Section 215.512 Coke By-Product Recovery Plant Leaks**
3513

- 3514 a) The owner or operator of a coke by-product recovery plant shall conduct a visual
3515 inspection program designed to detect, identify, and facilitate repair of leaks from
3516 components in light oil liquid service. Components servicing coke oven gas lines,
3517 operating flare headers or vapor recovery devices (including pressure relief
3518 devices) are exempt from the inspection program.
3519

- 3520 b) In conducting such a program, the owner or operator of a coke by-product

3521 recovery plant shall:

- 3522
- 3523 1) Develop and conduct a weekly inspection program consistent with the
 - 3524 provisions of Section 215.513.
 - 3525
 - 3526 2) Record all visible leaking components in light oil liquid service and
 - 3527 identify each component observed leaking consistent with the provisions
 - 3528 of Section 215.513.
 - 3529
 - 3530 3) Repair the leaking components as soon as practicable, but no later than 21
 - 3531 days after the leak is discovered unless the leaking component cannot be
 - 3532 required until the unit is shut down or until parts needed to correct the leak
 - 3533 are available.
 - 3534

3535 (Source: Added at 9 Ill. Reg. 13960, effective August 28, 1985)

3536

3537 **Section 215.513 Inspection Program**

3538

3539 The owner or operator shall prepare and conduct an inspection program which, at a minimum,

3540 shall require the owner or operator to:

- 3541
- 3542 a) Observe visually for leaks from all components subject to Section 215.512 on a
 - 3543 weekly basis;
 - 3544
 - 3545 b) Identify all leaking components so that they are obvious and can be located by
 - 3546 plant personnel performing visual inspections and Agency personnel performing
 - 3547 inspections; and
 - 3548
 - 3549 c) Record in the monitoring log, the information for each leaking component as
 - 3550 required by the provisions of Sections 215.514
 - 3551

3552 (Source: Added at 9 Ill. Reg. 13960, effective August 28, 1985)

3553

3554 **Section 215.514 Recordkeeping Requirements**

3555

- 3556 a) The owner or operator of a coke by-product recovery plant shall maintain a
- 3557 monitoring log that shall contain, at a minimum, the following information for
- 3558 each component found leaking:
- 3559
- 3560 1) The name of the process unit where the observed leaking component is
 - 3561 located;
 - 3562
 - 3563 2) Identification of the type of component (e.g., valve, seal);
 - 3564
 - 3565 3) The date on which the leaking component is first observed;
 - 3566

- 3567 4) The date on which a leaking component is repaired;
3568
3569 5) Identification of the type of leaking components which cannot be repaired
3570 until unit shutdown; and
3571
3572 6) Identification of component leaks which are not repaired within 21 days
3573 after discovery because of the unavailability of replacement parts,
3574 including the date the repair part was ordered and the date the repair part
3575 was received.
3576
3577 b) The monitoring log shall be retained by the owner or operator for a minimum of
3578 two years after the date on which the record was made.
3579
3580 c) Copies of the monitoring log shall be made available to the Agency upon verbal
3581 or written request at a reasonable time.
3582

3583 (Source: Added at 9 Ill. Reg. 13960, effective August 28, 1985)
3584

3585 **Section 215.515 Reporting Requirements** 3586

3587 The owner or operator of a coke by-product recovery plant shall submit to the Agency, prior to
3588 the first day of May and August of each year, a signed statement attesting that all monitoring and
3589 repairs were performed as required under Section 215.512.
3590

3591 (Source: Added at 9 Ill. Reg. 13960, effective August 28, 1985)
3592

3593 **Section 215.516 Compliance Dates** 3594

3595 The owner or operator of an emission source subject to:
3596

- 3597 a) Section 215.510 shall comply with the Section by December 31, 1986;
3598
3599 b) Sections 215.512 through 215.514 shall comply with those Sections by December
3600 31, 1985.
3601

3602 (Source: Added at 9 Ill. Reg. 13960, effective August 28, 1985)
3603

3604 **Section 215.517 Compliance Plan** 3605

3606 ~~The owner or operator of a facility or emission source subject to this Subpart shall submit to the~~
3607 ~~Agency, a compliance plan and project completion schedule for:~~
3608

- 3609 ~~a) Section 215.510 by August 31, 1986;~~
3610
3611 ~~b) Section 215.514 by October 31, 1985.~~
3612

3613 (Source: Added at 9 Ill. Reg. 13960, effective August 28, 1985)

3614

3615 SUBPART V: AIR OXIDATION PROCESSES

3616

3617 **Section 215.520 Applicability**

3618

3619 This Subpart applies to plants using air oxidation processes which are located in any of the
3620 following counties: Will, McHenry, Cook, DuPage, Lake, Kane, Madison, St. Clair, Macoupin
3621 and Monroe.

3622

3623 (Source: added at 11 Ill. Reg. 20829, effective December 14, 1987)

3624

3625 **Section 215.521 Definitions**

3626

3627 In addition to the definitions of 35 Ill. Adm. Code 211, the following definitions apply to this
3628 Subpart:

3629

3630 "Air Oxidation Process": any unit process including amoxidation and
3631 oxychlorination which uses air or a combination of air and oxygen as an oxidant
3632 in combination with one or more organic reactants to produce one or more
3633 organic compounds.

3634

3635 "Cost Effectiveness": the annual expense for cost of control of a given process
3636 stream divided by the reduction in emissions of organic material of ~~that stream that~~
3637 stream.

3638

3639 "Flow (F)": Vent stream flowrate (scm/min) at a standard temperature of 20°C.

3640

3641 "Full Operating Flowrate": Maximum operating capacity of the facility.

3642

3643 "Hourly Emissions (E)": Hourly emissions reported in kg/hr measured at full
3644 operating flowrate.

3645

3646 "Net Heating Value (H)": Vent stream net heating value (MJ/scm), where the net
3647 enthalpy per mole of offgas is based on combustion at 25° C and 760 mm Hg, but
3648 the standard temperature for determining the volume corresponding to one mole is
3649 20° C, as in the definition of "Flow."

3650

3651 "Process ~~Vent~~ Stream": an emission stream resulting from an air oxidation
3652 process.

3653

3654 "Total Resource Effectiveness Index (TRE)": Cost effectiveness in dollars per
3655 megagram of controlling any gaseous stream vented to the atmosphere from an air
3656 oxidation process divided by \$1600/Mg, using the criteria and methods set forth
3657 in this Subpart and Appendices E and F.

3658

3659 (Source: Added at 11 Ill. Reg. 20829, effective December 14, 1987)

3660

3661 **Section 215.525 Emission Limitations for Air Oxidation Processes**

3662

3663 a) No person shall cause or allow the emission of volatile organic material (VOM)
3664 from any process vent stream unless the process vent stream is vented to a
3665 combustion device which is designed and operated either:

3666

3667 1) To reduce the volatile organic emissions vented to it with an efficiency of
3668 at least ninety eight percent (98%) by weight; or

3669

3670 2) To emit volatile organic material at a concentration less than twenty parts
3671 per million by volume, dry basis.

3672

3673 b) Air oxidation facilities for which an existing combustion device is employed to
3674 control process VOM emissions are not required to meet the 98 percent emissions
3675 limit until the combustion device is replaced for other reasons, which shall be
3676 considered to include, but not be limited to, normal maintenance, malfunction,
3677 accident, and obsolescence. The combustion device is considered to be replaced
3678 when:

3679

3680 1) All of the device is replaced; or

3681

3682 2) When the cost of the repair of the device or the cost of replacement of part
3683 of the device exceeds 50% of the cost of replacing the entire device with a
3684 device which complies.

3685

3686 c) The limitations of subsection (a) do not apply to any process vent stream or
3687 combination of process vent streams which has a Total Resource Effectiveness
3688 Index (TRE) greater than 1.0, as determined by the following methods:

3689

3690 1) If an air oxidation process has more than one process vent stream, TRE
3691 shall be based upon a combination of the process vent stream.

3692

3693 2) TRE of a process vent stream shall be determined according to the
3694 following equation:

3695

$$\text{TRE} = E^{-1} [a + bF^n + cF + dFH + e(FH)^n + fF^{0.5}]$$

where:

3696

n = 0.88

TRE = Total resource effectiveness index.

F = Vent stream flowrate (scm/min), at a standard temperature of 20 C.

E = Hourly measured emissions in kg/hr.

H = Net heating value of the vent stream (MJ/scm), where the net enthalpy per mole of offgas is based on combustion at 25 C and 760 mm Hg, but the standard temperature for determining the volume corresponding to one mole is 20 C, as in the definition of "Flow".

a,b,c,d,
e and f = Coefficients obtained by use of Appendix F.

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- 3) For nonchlorinated process vent streams, if the net heating value, H, is greater than 3.6 MJ/scm, F shall be replaced by F' for purposes of calculating TRE. F' is computed as follows:

$$F' = FH / 3.6$$

3702
3703
3704

where f and H are as defined in subsection (c)(2).

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3706
3707

- 4) The actual numerical values used in the equation described in subsection (c)(2) shall be determined as follows:

3708
3709
3710
3711

A) All reference methods and procedures for determining the flow, (F), hourly emissions, (E), and net heating, (H), value shall be in accordance with Appendix E.

3712
3713
3714

B) All coefficients described in subsection (c)(2) shall be in accordance with Appendix F.

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3716

(Source: Added at 11 Ill. Reg. 20829, effective December 14, 1987)

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3718

Section 215.526 Testing and Monitoring

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3724

- a) Upon request by the Agency during the permitting process under Section 39 of the Act, the owner or operator of an air oxidation process shall demonstrate compliance with this Subpart by use of the methods specified in Appendix E. This Section does not limit the USEPA's authority, under the Clean~~Clear~~ Air Act, to require demonstrations of compliance.

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3729

- b) A person planning to conduct a volatile organic material emissions test to demonstrate compliance with this Subpart shall notify the Agency of that intent not less than 30 days before the planned initiation of the tests so that the Agency may observe the test.

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3731

(Source: Added at 11 Ill. Reg. 20829, effective December 14, 1987)

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Section 215.527 Compliance Date

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Each owner or operator of an emission source subject to this Subpart shall comply with the standards and limitations of this Subpart by December 31, 1987.

(Source: Added at 11 Ill. Reg. 20829, effective December 14, 1987)

SUBPART W: AGRICULTURE

Section 215.541 Pesticide Exception

The provisions of Sections 215.301 and 215.302 shall not apply to the spraying or use of insecticides, herbicides or other pesticides.

(Source: Added at 3 Ill. Reg. 30, p. 124, effective July 28, 1979)

SUBPART X: CONSTRUCTION

Section 215.561 Architectural Coatings

No person shall cause or allow the sale or use in the Chicago or St. Louis (Illinois) major metropolitan areas of any architectural coating containing more than 20 percent by volume of photochemically reactive material in containers having a capacity of more than one gallon.

(Source: Amended at 3 Ill. Reg. 30, p. 124, effective July 28, 1979)

Section 215.562 Paving Operations

The provisions of Sections 215.301 and 215.302 shall not apply to the application of paving asphalt and pavement marking paint from sunrise to sunset.

(Source: Amended at 3 Ill. Reg. 30, p. 124, effective July 28, 1979)

Section 215.563 Cutback Asphalt

- a) No person shall cause or allow the use or application of cutback asphalt for paving, resurfacing, reconditioning, repairing or otherwise maintaining a roadway unless:
 - 1) The use or application of the cutback asphalt commences on or after October 1 of any year and such use or application is completed by April 30 of the following year; or
 - 2) The cutback asphalt is a long-life stockpile material which remains in stock after April 30 of each year and as such it may be used until depleted for patching potholes and for other similar repair work; or

3779 3) The cutback asphalt is to be used solely as an asphalt prime coat.

3780

3781 b) Sources subject to this section are not required to submit or obtain an Agency
3782 approved compliance plan or project completion schedule under 35 Ill. Adm.
3783 Code 201, Subpart H.

3784

3785 (Source: Amended at 3 Ill. Reg. 30, p. 124, effective July 28, 1979)

3786

3787 SUBPART Y: GASOLINE DISTRIBUTION

3788

3789 **Section 215.581 Bulk Gasoline Plants**

3790

3791 a) Subject to subsection (e), no person may cause or allow the transfer of gasoline
3792 from a delivery vessel into a stationary storage tank located at a bulk gasoline
3793 plant unless:

3794

3795 1) The delivery vessel and the stationary storage tank are each equipped with
3796 a vapor collection system that meets the requirements of subsection (d)(4);

3797

3798 2) Each vapor collection system is operating;

3799

3800 3) The delivery vessel displays the appropriate sticker pursuant to the
3801 requirements of Section 215.584(b) or (d);

3802

3803 4) The pressure relief valve(s) on the stationary storage tank and the delivery
3804 vessel are set to release at no less than 0.7 psi or the highest pressure
3805 allowed by state or local fire codes or the guidelines of the National Fire
3806 Prevention Association; and

3807

3808 5) The stationary storage tank is equipped with a submerged loading pipe.

3809

3810 b) Subject to subsection (f), no person may cause or allow the transfer of gasoline
3811 from a stationary storage tank located at a bulk gasoline plant into a delivery
3812 vessel unless:

3813

3814 1) The requirements set forth in subsections (a)(1) through (a)(4) are met;
3815 and

3816

3817 2) Equipment is available at the bulk gasoline plant to provide for the
3818 submerged filling of the delivery vessel or the delivery vessel is equipped
3819 for bottom loading.

3820

3821 c) Subject to subsection (e), each owner of a stationary storage tank located at a bulk
3822 gasoline plant shall:

3823

3824 1) Equip each stationary storage tank with a vapor control system that meets

- 3825 the requirements of subsection (a) or (b), whichever is applicable;
3826
3827 2) Provide instructions to the operator of the bulk gasoline plant describing
3828 necessary maintenance operations and procedures for prompt notification
3829 of the owner in case of any malfunction of a vapor control system; and
3830
3831 3) Repair, replace or modify any worn out or malfunctioning component or
3832 element of design.
3833
3834 d) Subject to subsection (e), each operator of a bulk gasoline plant shall:
3835
3836 1) Maintain and operate each vapor control system in accordance with the
3837 owner's instructions;
3838
3839 2) Promptly notify the owner of any scheduled maintenance or malfunction
3840 requiring replacement or repair of a major component of a vapor control
3841 system; and
3842
3843 3) Maintain gauges, meters or other specified testing devices in proper
3844 working order;
3845
3846 4) Operate the bulk plant vapor collection system and gasoline loading
3847 equipment in a manner that prevents:
3848
3849 A) Gauge pressure from exceeding 18 inches of water and vacuum
3850 from exceeding 6 inches of water, as measured as close as possible
3851 to the vapor hose connection; and
3852
3853 B) A reading equal to or greater than 100 percent of the lower
3854 explosive limit (LEL measured as propane) when tested in
3855 accordance with the procedure described in EPA 450/2-78-051
3856 Appendix B; and
3857
3858 C) Avoidable leaks of liquid during loading or unloading operations.
3859
3860 5) Provide a pressure tap or equivalent on the bulk plant vapor collection
3861 system in order to allow the determination of compliance with
3862 215.581(d)(4)(A); and
3863
3864 6) Within 15 business days after discovery of the leak by the owner, operator,
3865 or the Agency, repair and retest a vapor collection system which exceeds
3866 the limits of subsection (d)(4)(A) or (B).
3867
3868 e) The requirements of subsection (a), (c) and (d) shall not apply to:
3869
3870 1) Any stationary storage tank with a capacity of less than 575 gallons; or

- 3871
3872 2) Any bulk gasoline plant whose annual gasoline throughput is less than
3873 350,000 gallons as averaged over the preceding three calendar years.
3874
3875 f) The requirements of subsection (b) shall only apply to bulk gasoline plants:
3876
3877 1) That have an annual gasoline throughput greater than or equal to
3878 1,000,000 gallons, as averaged over the preceding three calendar years;
3879 and
3880
3881 2) That either distribute gasoline to gasoline dispensing facilities subject to
3882 the requirements of Section 215.583(a)(2), 35 Ill. Adm. Code
3883 218.583(b)(2) or 35 Ill. Adm. Code 219.583(a)(2) or that are located in the
3884 following counties: Boone, Peoria, Rock Island, Tazewell or Winnebago.
3885
3886 g) Bulk gasoline plants were required to take certain actions to achieve compliance
3887 which are summarized in Appendix C.
3888

3889 (Source: Amended at 15 Ill. Reg. 12217, effective August 19, 1991)
3890

3891 **Section 215.582 Bulk Gasoline Terminals**
3892

- 3893 a) No person shall cause or allow the transfer of gasoline into any delivery vessel
3894 from any bulk gasoline terminal unless:
3895
3896 1) The bulk gasoline terminal is equipped with a vapor control system that
3897 limits emission of volatile organic material to 80 mg/1 (0.00067 lbs/gal) of
3898 gasoline loaded;
3899
3900 2) The vapor control system is operating and all vapors displaced in the
3901 loading of gasoline to the delivery vessel are vented only to the vapor
3902 control system;
3903
3904 3) There is no liquid drainage from the loading device when it is not in use;
3905
3906 4) All loading and vapor return lines are equipped with fittings which are
3907 vapor tight; and
3908
3909 5) The delivery vessel displays the appropriate sticker pursuant to the
3910 requirements of Section 215.584(b) or (d); or, if the terminal is driver-
3911 loaded, the terminal owner or operator shall be deemed to be in
3912 compliance with this section when terminal access authorization is limited
3913 to those owners and/or operators of delivery vessels who have provided a
3914 current certification as required by Section 215.584(c)(3).
3915
3916 b) Bulk gasoline terminals were required to take certain actions to achieve

3917 compliance which are summarized in Appendix C.

3918

3919 c) The operator of a bulk gasoline terminal shall:

3920

3921 1) Operate the terminal vapor collection system and gasoline loading
3922 equipment in a manner that prevents:

3923

3924 A) Gauge pressure from exceeding 18 inches of water and vacuum
3925 from exceeding 6 inches of water as measured as close as possible
3926 to the vapor hose connection; and

3927

3928 B) A reading equal to or greater than 100 percent of the lower
3929 explosive limit (LEL measured as propane) when tested in
3930 accordance with the procedure described in EPA 450/2-78-051
3931 Appendix B; and

3932

3933 C) Avoidable leaks of liquid during loading or unloading operations.

3934

3935 2) Provide a pressure tap or equivalent on the terminal vapor collection
3936 system in order to allow the determination of compliance with
3937 215.582(d)(1)(A); and

3938

3939 3) Within 15 business days after discovery of the leak by the owner, operator,
3940 or the Agency repair and retest a vapor collection system which exceeds
3941 the limits of subsection (d)(1)(A) or (B).

3942

3943 (Source: Amended at 14 Ill. Reg. 9173, effective May 23, 1990)

3944

3945 **Section 215.583 Gasoline Dispensing Facilities - Storage Tank Filling Operations**

3946

3947 a) Subject to subsection (b) below, no person shall cause or allow the transfer of
3948 gasoline from any delivery vessel into any stationary storage tank at a gasoline
3949 dispensing facility unless:

3950

3951 1) The tank is equipped with a submerged loading pipe; and

3952

3953 2) The vapors displaced from the storage tank during filling are processed by
3954 a vapor control system that includes one or more of the following:

3955

3956 A) A vapor collection system that meets the requirements of
3957 subsection (d)(4) below; or

3958

3959 B) A refrigeration-condensation system or any other system approved
3960 by the Agency that recovers at least 90 percent by weight of all
3961 vaporized organic material from the equipment being controlled;
3962 and

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- C) The delivery vessel displays the appropriate sticker pursuant to the requirements of Section 215.584(b) or (d) of this Part.

- b) The requirements of subsection (a)(2) above shall not apply to transfers of gasoline to a stationary storage tank at a gasoline dispensing facility if:
 - 1) The tank is equipped with a floating roof or other system of equal or better emission control as approved by the Agency;
 - 2) The tank has a capacity of less than 2000 gallons and is in place and operating before January 1, 1979;
 - 3) The tank has a capacity of less than 575 gallons; or
 - 4) The tank is not located in any of the following counties: Boone, Cook, DuPage, Kane, Lake, Madison, McHenry, Peoria, Rock Island, St. Clair, Tazewell, Will or Winnebago.

- c) Subject to subsection (b) above, each owner of a gasoline dispensing facility shall:
 - 1) Install all control systems and make all process modifications required by subsection (a) above;
 - 2) Provide instructions to the operator of the gasoline dispensing facility describing necessary maintenance operations and procedures for prompt notification of the owner in the case of any malfunction of a vapor control system; and
 - 3) Repair, replace or modify any worn out or malfunctioning component or element of design.

- d) Subject to subsection (b) above, each operator of a gasoline dispensing facility and each delivery vessel operator shall:
 - 1) Maintain and operate each vapor control system in accordance with the owner's instructions;
 - 2) Promptly notify the owner of any scheduled maintenance or malfunction requiring replacement or repair of a major component of a vapor control system;
 - 3) Maintain gauges, meters or other specified testing devices in proper working order;

- 4009 4) Operate the vapor collection system and delivery vessel unloading points
4010 in a manner that prevents:
4011
4012 A) A reading equal to or greater than 100 percent of the lower
4013 explosive limit (LEL measured as propane) when tested in
4014 accordance with the procedure described in EPA 450/2-78-051
4015 Appendix B, and
4016
4017 B) Avoidable leaks of liquid during the filling of storage tanks; and
4018
4019 5) Within 15 business days after discovery of the leak by the owner, operator,
4020 or the Agency, repair and retest a vapor collection system which exceeds
4021 the limits of subsection (d)(4)(A) above.
4022
4023 e) Gasoline dispensing facilities were required to take certain actions to achieve
4024 compliance which are summarized in Appendix C of this Part.
4025

4026 (Source: Amended at 16 Ill. Reg. 13849, effective August 24, 1992)
4027

4028 **Section 215.584 Gasoline Delivery Vessels**
4029

- 4030 a) Any delivery vessel equipped for vapor control by use of vapor collection
4031 equipment:
4032
4033 1) Shall have a vapor space connection that is equipped with fittings which
4034 are vapor tight;
4035
4036 2) Shall have its hatches closed at all times during loading or unloading
4037 operations, unless a top loading vapor recovery system is used;
4038
4039 3) Shall not internally exceed a gauge pressure of 18 inches of water or a
4040 vacuum of 6 inches of water;
4041
4042 4) Shall be designed and maintained to be vapor tight at all times during
4043 normal operations;
4044
4045 5) Shall not be refilled in Illinois at other than:
4046
4047 A) A bulk gasoline terminal that complies with the requirements of
4048 Section 215.582 or
4049
4050 B) A bulk gasoline plant that complies with the requirements of
4051 Section 215.581(b)(1) and (2).
4052
4053 6) Shall be tested annually in accordance with Method 27, 40 CFR 60,
4054 Appendix A, incorporated by reference in Section 215.105. Each vessel

4055 must be repaired and retested with 15 business days after discovery of the
4056 leak by the owner, operator, or the Agency, when it fails to sustain:

4057
4058 A) A pressure drop of no more than three inches of water in five
4059 minutes; and

4060
4061 B) A vacuum drop of no more than three inches of water in five
4062 minutes.

4063
4064 b) Any delivery vessel meeting the requirements of subsection (a) shall have a
4065 sticker affixed to the tank adjacent to the tank manufacturer's data plate which
4066 contains the tester's name, the tank identification number and the date of the test.
4067 The sticker shall be in a form prescribed by the Agency, and shall be displayed no
4068 later than December 31, 1987.

4069
4070 c) The owner or operator of a delivery vessel shall:

4071
4072 1) Maintain copies of any test required under subsection (a)(6) for a period of
4073 3 years;

4074
4075 2) Provide copies of these tests to the Agency upon request; and

4076
4077 3) Provide annual test result certification to bulk gasoline plants and
4078 terminals where the delivery vessel is loaded.

4079
4080 d) Any delivery vessel which has undergone and passed a test in another state which
4081 has a USEPA-approved leak testing and certification program will satisfy the
4082 requirements of subsection (a). Delivery vessels must display a sticker, decal or
4083 stencil approved by the state where tested or comply with the requirements of
4084 subsection (b). All such stickers, decals or stencils shall be displayed no later
4085 than December 31, 1987.

4086
4087 (Source: Amended at 14 Ill. Reg. 9173, effective May 23, 1990)

4088
4089 **Section 215.585 Gasoline Volatility Standards (Repealed)**

4090
4091 (Source: Repealed at 37 Ill. Reg. 1683, effective January 28, 2013)

4092
4093 **Section 215.586 Emissions Testing**

4094
4095 a) Any tests of organic material emissions from bulk gasoline terminals, including
4096 tests conducted to determine control equipment efficiency or control device
4097 destruction efficiency, shall be conducted in accordance with the Test Methods
4098 and Procedures for the Standards of Performance for Bulk Gasoline Terminals, 40
4099 CFR 60.503, incorporated by reference in Section 215.105. Any alternate test
4100 method must be approved by the Agency, which shall consider data comparing

4101 the performance of the proposed alternative to the performance of the approved
4102 ~~test~~ method(s). If the Agency determines that such data demonstrates the ~~the~~
4103 proposed alternative will achieve results equivalent ~~to~~ the approved test
4104 method(s), the Agency shall approve the proposed alternative.

4105
4106 b) Upon a reasonable request by the Agency, the owner or operator of a volatile
4107 organic material emission source subject to this Subpart shall conduct emissions
4108 testing, at such person's own expense, to demonstrate compliance.

4109
4110 c) A person planning to conduct an organic material emissions test to demonstrate
4111 compliance with this Subpart shall notify the Agency of that intent not less than
4112 30 days before the planned initiation of the tests so the Agency may observe the
4113 test.

4114
4115 (Source: Added at 14 Ill. Reg. 9173, effective May 23, 1990)

4116
4117 SUBPART Z: DRY CLEANERS

4118
4119 **Section 215.601 Perchloroethylene Dry Cleaners (Repealed)**

4120
4121 (Source: Repealed at 22 Ill. Reg. 11427, effective June 19, 1998)

4122
4123 **Section 215.602 Exemptions (Repealed)**

4124
4125 (Source: Repealed at 22 Ill. Reg. 11427, effective June 19, 1998)

4126
4127 **Section 215.603 Leaks (Repealed)**

4128
4129 (Source: Repealed at 22 Ill. Reg. 11427, effective June 19, 1998)

4130
4131 **Section 215.604 Compliance Dates and Geographical areas (Repealed)**

4132
4133 (Source: Repealed at 22 Ill. Reg. 11427, effective June 19, 1998)

4134
4135 **Section 215.605 Compliance Plan (Repealed)**

4136
4137 (Source: Repealed at 22 Ill. Reg. 11427, effective June 19, 1998)

4138
4139 **Section 215.606 Exception to Compliance Plan (Repealed)**

4140
4141 (Source: Repealed at 22 Ill. Reg. 11427, effective June 19, 1998)

4142
4143 **Section 215.607 Standards for Petroleum Solvent Dry Cleaners**

4144
4145 a) The owner or operator of a petroleum solvent dry cleaning dryer shall either:

4146

- 4147 1) Limit emissions of volatile organic material to the atmosphere to an
4148 average of 3.5 kilograms of volatile organic material per 100 kilograms
4149 dry weight of articles dry cleaned, or
4150
4151 2) Install and operate a solvent recovery dryer in a manner such that the dryer
4152 remains closed and the recovery phase continues until a final solvent flow
4153 rate of 50 milliliters per minute is attained.
4154
4155 b) The owner or operator of a petroleum solvent filtration system shall either:
4156
4157 1) Reduce the volatile organic material content in all filtration wastes to 1.0
4158 kilogram or less per 100 kilograms dry weight of articles dry cleaned,
4159 before disposal, and exposure to the atmosphere, or
4160
4161 2) Install and operate a cartridge filtration system, and drain the filter
4162 cartridges in their sealed housings for 8 hours or more before their
4163 removal.
4164

4165 (Source: Added at 11 Ill. Reg. 7296, effective April 3, 1987)
4166

4167 **Section 215.608 Operating Practices for Petroleum Solvent Dry Cleaners**
4168

4169 In order to minimize fugitive solvent emissions, the owner or operator of a petroleum solvent dry
4170 cleaning facility shall employ good housekeeping practices including the following:
4171

- 4172 a) General Housekeeping Requirements
4173
4174 1) Equipment containing solvent (washers, dryers, extractors and filters) shall
4175 remain closed at all times except during load transfer and maintenance.
4176 Lint filter and button trap covers shall remain closed except when solvent-
4177 laden material is being removed.
4178
4179 2) Cans, buckets, barrels and other containers of solvent or of solvent-laden
4180 material shall be covered except when in use.
4181
4182 3) Solvent-laden material shall be exposed to the atmosphere only for the
4183 minimum time necessary for load transfer.
4184
4185 b) Installation and operation of equipment
4186
4187 1) All cartridge filters shall be installed and operated in accordance with the
4188 procedures and specifications recommended by the manufacturer for the
4189 cartridge filter. After installation, the cartridges shall be inspected,
4190 monitored and maintained in accordance with the manufacturer's
4191 recommendations; and
4192

- 4193 2) Vents on containers for new solvent and for solvent-containing waste shall
4194 be constructed and maintained so as to minimize solvent vapor emissions.
4195 Criteria for the minimization of solvent vapor emissions include the
4196 elimination of solvent buckets and barrels standing open to the
4197 atmosphere, and the repair of gaskets and seals that expose solvent-rich
4198 environments to the atmosphere, to be determined through visual
4199 inspection.
4200

4201 (Source: Added at 11 Ill. Reg. 7296, effective April 3, 1987)
4202

4203 **Section 215.609 Program for Inspection and Repair of Leaks**
4204

- 4205 a) The owner or operator of a petroleum solvent dry cleaning facility shall conduct
4206 the following visual inspections on a weekly basis:
4207
- 4208 1) Washers, dryers, solvent filters, settling tanks, vacuum stills and
4209 containers and conveyors of petroleum solvent shall be inspected for
4210 visible leaks of solvent liquid.
 - 4211
 - 4212 2) Pipes, hoses and fittings shall be inspected for active dripping or
4213 dampness.
 - 4214
 - 4215 3) Pumps and filters shall be inspected for leaks around seals and access
4216 covers.
 - 4217
 - 4218 4) Gaskets and seals shall be inspected for wear and defects.
 - 4219
- 4220 b) Leaks of petroleum solvent liquid and vapors shall be repaired within three
4221 working days of detection, unless necessary replacement parts are not on site.
4222
- 4223 1) If necessary, repair parts shall be ordered within three working days of
4224 detection of the leak.
 - 4225
 - 4226 2) The leak shall be repaired within three days of delivery of necessary parts.
 - 4227

4228 (Source: Added at 11 Ill. Reg. 7296, effective April 3, 1987)
4229

4230 **Section 215.610 Testing and Monitoring**
4231

- 4232 a) Compliance with Sections 215.607(b)(2), 215.608 and 215.609 shall be
4233 determined by visual inspection; and
4234
- 4235 b) Compliance with Sections 215.607(a)(2) and (b)(1) shall be determined by
4236 methods described in EPA-450/3-82-009 (1982) and does not include any later
4237 amendments or editions.
4238

4239 c) If a control device is used to comply with Section 215.607(a)(1), then compliance
4240 shall be determined using 40 CFR 60 Appendix A, Method 25 (1984) and does
4241 not include any later amendments or editions.

4242
4243 (Source: Added at 11 Ill. Reg. 7296, effective April 3, 1987)

4244
4245 **Section 215.611 Exemption for Petroleum Solvent Dry Cleaners**

4246
4247 The provisions of Sections 215.607 through 215.610 shall not apply to petroleum solvent dry
4248 cleaning facilities whose emissions of volatile organic material do not exceed 91 megagrams
4249 (100 tons) per year in the absence of pollution control equipment or whose emissions of volatile
4250 organic material, as limited by the operating permit, will not exceed 91 megagrams (100 tons)
4251 per year in the absence of pollution control equipment.

4252
4253 (Source: Added at 11 Ill. Reg. 7296, effective April 3, 1987)

4254
4255 **Section 215.612 Compliance Dates and Geographical Areas**

4256
4257 Owners and operators of emission sources located in the counties listed below shall comply with
4258 the requirements of Sections 215.607 through 215.609 as expeditiously as practicable but no
4259 later than December 31, 1987:

4260

Cook	Madison
DuPage	McHenry
Kane	Monroe
Lake	St. Clair
Macoupin	Will

4261
4262 (Source: Added at 11 Ill. Reg. 7296, effective April 3, 1987)

4263
4264 **Section 215.613 Compliance Plan**

4265
4266 ~~a) The owner or operator of an emission source subject to Section 215.610(a) shall~~
4267 ~~submit to the Agency a compliance plan, including a project completion schedule~~
4268 ~~where applicable, no later than May 31, 1987.~~

4269
4270 ~~b) The plan and schedule shall meet the requirements of 35 Ill. Adm. Code 201.~~

4271
4272 (Source: Added at 11 Ill. Reg. 7296, effective April 3, 1987)

4273
4274 **Section 215.614 Testing Method for Volatile Organic Material Content of Wastes**

4275
4276 The volatile organic material content of wastes shall be determined by Method 24, 40 CFR 60,
4277 Appendix A incorporated by reference in Section 215.105. Any alternate test method must be
4278 approved by the Agency, which shall consider data comparing the performance of the proposed
4279 alternative to the performance of the approved test method(s). If the Agency determines that such

4280 data demonstrates that the proposed alternative will achieve results equivalent to the approved
4281 test method(s), the Agency shall approve the proposed alternative.

4282

4283 (Source: Added at 14 Ill. Reg. 9173, effective May 23, 1990)

4284

4285 **Section 215.615 Emissions Testing**

4286

4287 a) Any tests of volatile organic material emissions, including tests conducted to
4288 determine control equipment efficiency or control device destruction efficiency,
4289 shall be conducted in accordance with the methods and procedures specified in
4290 Section 215.102.

4291

4292 b) Upon a reasonable request by the Agency, the owner or operator of a volatile
4293 organic material emissions source subject to this Subpart shall conduct emissions
4294 testing, at such person's own expense, to demonstrate compliance.

4295

4296 c) A person planning to conduct a volatile organic material emissions test to
4297 demonstrate compliance with this Subpart shall notify the Agency of that intent
4298 not less than 30 days before the planned initiation of the tests so the Agency may
4299 observe the test.

4300

4301 (Source: Added at 14 Ill. Reg. 9173, effective May 23, 1990)

4302

4303 **SUBPART AA: PAINT AND INK MANUFACTURING**

4304

4305 **Section 215.620 Applicability**

4306

4307 a) This Subpart shall apply to the following counties: Cook, DuPage, Kane, Lake,
4308 Macoupin, Madison, McHenry, Monroe, St. Clair and Will.

4309

4310 b) This Subpart shall apply to all paint and ink manufacturing plants which:

4311

4312 1) include process emission sources not subject to Subparts B, E, F, N, P, Q,
4313 R, S, U, V, X, Y or Z of this Part, and which process emission sources as a
4314 group would emit 100 tons or more per year of volatile organic material if
4315 no air pollution control equipment were used, or

4316

4317 2) produce more than 2,000,000 gallons per year of paints or ink
4318 formulations, which contain less than 10 percent, by weight, water, and
4319 ink formulations not containing as the primary solvents water, Magic oil,
4320 or glycol.

4321

4322 c) For the purposes of this Subpart, uncontrolled volatile organic material emissions
4323 are the emissions of volatile organic material which would result if no air
4324 pollution control equipment were used.

4325

4326 (Source: Added at 12 Ill. Reg. 7311, effective April 8, 1988)

4327

4328 **Section 215.621 Exemption for Waterbase Material and Heatset Offset Ink**

4329

4330 The requirements of Sections 215.624, 215.625 and 215.628(a) shall not apply to equipment
4331 while it is being used to produce paint or ink formulations which contain 10 percent or more, by
4332 weight, water, or inks containing Magie oil and glycol as the primary solvent.

4333

4334 (Source: Added at 12 Ill. Reg. 7311, effective April 8, 1988)

4335

4336 **Section 215.623 Permit Conditions**

4337

4338 No person shall violate any condition in a permit when the condition results in exclusion of the
4339 plant or an emission source from this Subpart.

4340

4341 (Source: Added at 12 Ill. Reg. 7311, effective April 8, 1988)

4342

4343 **Section 215.624 Open-top Mills, Tanks, Vats or Vessels**

4344

4345 No person shall operate an open-top mill, tank, vat or vessel, with a volume of more than 12
4346 gallons for the production of paint or ink unless:

4347

4348 a) The mill, tank, vat or vessel is equipped with a cover which completely covers the
4349 mill, tank, vat or vessel opening, except for an opening no larger than necessary to
4350 allow for safe clearance for a mixer shaft. Such cover shall extend at least ½ inch
4351 beyond the outer rim of the opening or be attached to the rim.

4352

4353 b) The cover remains closed, except when production, sampling, maintenance, or
4354 inspection procedures require access.

4355

4356 c) The cover is maintained in good condition, such that when in place, it maintains
4357 contact with the rim of the opening for at least 90% of the circumference of the
4358 rim.

4359

4360 (Source: Added at 12 Ill. Reg. 7311, effective April 8, 1988)

4361

4362 **Section 215.625 Grinding Mills**

4363

4364 a) No person shall operate a grinding mill for the production of paint or ink which is
4365 not maintained in accordance with the manufacturer's specifications.

4366

4367 b) No person shall operate a grinding mill fabricated or modified after the effective
4368 date of this Subpart which is not equipped with fully enclosed screens.

4369

4370 c) The manufacturer's specifications shall be kept on file at the plant by the owner or
4371 operator of the grinding mill and be made available to any person upon verbal or

4372 written request during business hours.

4373

4374 (Source: Added at 12 Ill. Reg. 7311, effective April 8, 1988)

4375

4376 **Section 215.628 Leaks**

4377

4378 The owner or operator of a paint or ink manufacturing plant shall, for the purpose of detecting
4379 leaks, conduct an equipment monitoring program consistent with the following:

4380

4381 a) Each pump shall be checked by visual inspection each calendar week for
4382 indications of leaks, that is, liquids dripping from the pump seal. If there are
4383 indications of liquids dripping from the pump seal, the pump shall be repaired as
4384 soon as practicable, but no later than 15 calendar days after the leak is detected.

4385

4386 b) Any pump, valve, pressure relief valve, sampling connection, open-ended valve,
4387 and flange or connector containing a fluid which is at least 10 percent by weight
4388 volatile organic material which appears to be leaking on the basis of sight, smell,
4389 or sound shall be repaired as soon as practicable, but no later than 15 calendar
4390 days after the leak is detected.

4391

4392 c) A weather proof, readily visible tag, in bright colors such as red or yellow,
4393 bearing an identification number and the date on which the leak was detected
4394 shall be attached to leaking equipment. The tag may be removed upon repair, that
4395 is, when the equipment is adjusted or otherwise altered to allow operation without
4396 leaking.

4397

4398 d) When a leak is detected, the owner or operator shall record the date of detection
4399 and repair and the record shall be retained at the plant for at least 2 years from the
4400 date of each detection or each repair attempt. The record shall be made available
4401 to any person upon verbal or written request during business hours.

4402

4403 (Source: Added at 12 Ill. Reg. 7311, effective April 8, 1988)

4404

4405 **Section 215.630 Clean Up**

4406

4407 a) No person shall clean paint or ink manufacturing equipment with organic solvent
4408 unless the equipment being cleaned is completely covered or enclosed except for
4409 an opening no larger than necessary to allow safe clearance for proper operation
4410 of the cleaning equipment, considering the method and materials being used.

4411

4412 b) No person shall store organic wash solvent in other than closed containers, unless
4413 closed containers are demonstrated to be a safety hazard, or dispose of organic
4414 wash solvent in a manner such that more than 20 percent by weight is allowed to
4415 evaporate into the atmosphere.

4416

4417 (Source: Added at 12 Ill. Reg. 7311, effective April 8, 1988)

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Section 215.636 Compliance Date

Owners and operators of emission sources subject to this Subpart shall comply with its requirements by April 1, 1989.

(Source: Added at 12 Ill. Reg. 7311, effective April 8, 1988)

SUBPART BB: POLYSTYRENE PLANTS

Section 215.875 Applicability of Subpart BB

The provisions of this Subpart shall apply to polystyrene plants:

- a) Which are located in any of the following counties: Will, McHenry, Cook, DuPage, Lake, Kane, Madison, St. Claire, Monroe and Macoupin;
- b) Which use continuous processes to manufacture polystyrene – polybutadiene copolymer; and
- c) Which fall within Standard Industrial Classification Group No. 282, Industry No. 2821, except that the manufacture of polystyrene resins need not be the primary manufacturing process at the plant.

(Source: Added at 11 Ill. Reg. 16706, effective September 30, 1987)

Section 215.877 Emissions Limitation at Polystyrene Plants

No person shall cause or allow the emissions of volatile organic material from the material recovery section to exceed 0.12 kg of Volatile Organic Material per 1000 kg of polystyrene resin produced.

(Source: Added at 11 Ill. Reg. 16706, effective September 30, 1987)

Section 215.879 Compliance Date

Every owner and operator of an emission source subject to this Subpart shall comply with its standards and limitations by December 31, 1987.

(Source: Added at 11 Ill. Reg. 16706, effective September 30, 1987)

Section 215.881 Compliance Plan

- ~~a) The owner or operator of an emission source subject to the requirements of this Subpart shall submit to the Agency a compliance plan in accordance with 35 Ill. Adm. Code 201. Subpart H, including a project completion schedule on or before~~

4464 ~~December 1, 1987.~~

4465
4466 ~~b) Unless the submitted compliance plan or schedule is disapproved by the Agency,~~
4467 ~~the owner or operator of a facility or emission source subject to this Subpart may~~
4468 ~~operate the emission source according to the plan and schedule as submitted.~~

4469
4470 ~~e) The plan and schedule shall meet the requirements of 35 Ill. Adm. Code 201-~~
4471 ~~Subpart H and Section 215.883.~~

4472
4473 (Source: Added at 11 Ill. Reg. 16706, effective September 30, 1987)

4474
4475 **Section 215.883 Special Requirements for Compliance Plan**

4476
4477 ~~For sources subject to this Subpart, an approvable compliance plan shall include:~~

4478
4479 ~~a) A description of each process which is subject to an emissions limitation;~~

4480
4481 ~~b) Quantification of the emissions from each process;~~

4482
4483 ~~c) A description of the procedures and methods used to determine the emissions of~~
4484 ~~volatile organic material;~~

4485
4486 ~~d) A description of the methods which will be used to demonstrate compliance with~~
4487 ~~the allowable plantwide emission limitation (Section 215.877), including a~~
4488 ~~method of inventory, recordkeeping and emission calculation or measurement.~~

4489
4490 (Source: Added at 11 Ill. Reg. 16706, effective September 30, 1987)

4491
4492 **Section 215.886 Emission Testing**

4493
4494 a) Any tests of volatile organic material emissions, including tests conducted to
4495 determine control equipment efficiency or control device destruction efficiency,
4496 shall be conducted in accordance with the methods and procedures specified in
4497 Section 215.102.

4498
4499 b) Upon a reasonable request by the Agency, the owner or operator of a polystyrene
4500 plant subject to this Subpart shall conduct emissions testing, at his own expense,
4501 to demonstrate compliance.

4502
4503 c) A person planning to conduct a volatile organic material emissions test to
4504 demonstrate compliance with this Subpart shall notify the Agency of that intent
4505 not less than 30 days before the planned initiation of the tests so the Agency may
4506 observe the test.

4507
4508 (Source: Amended at 14 Ill. Reg. 9173, effective May 23, 1990)

4509

4510 SUBPART PP: MISCELLANEOUS FABRICATED PRODUCT MANUFACTURING
4511 PROCESSES
4512

4513 **Section 215.920 Applicability**
4514

- 4515 a) The requirements of this Subpart shall apply to the following counties: Cook,
4516 DuPage, Kane, Lake, Macoupin, Madison, McHenry, Monroe, St. Clair and Will.
4517
- 4518 b) The requirements of this Subpart shall apply to a plant's miscellaneous fabricated
4519 product manufacturing process emission sources which are not regulated by
4520 Subparts B, E, F, N, P, Q, R, S, U, V, X, Y, or Z if the plant is subject to this
4521 Subpart. A plant is subject to this Subpart if it contains process emission sources,
4522 not regulated by Subparts B, E, F, N, P, Q, R, S, U, V, X, Y, or Z, which as a
4523 group would emit 100 tons or more per year of volatile organic material if no air
4524 pollution control equipment were used.
4525
- 4526 c) If a plant ceases to fulfill the criteria of subsection (b), the requirements of this
4527 Subpart shall continue to apply to a miscellaneous fabricated products
4528 manufacturing process emission source which was subject to and met the control
4529 requirements of Section 215.926.
4530
- 4531 d) No limits under this Subpart shall apply to:
4532
- 4533 1) Emission sources with emissions of volatile organic material to the
4534 atmosphere less than or equal to 1.0 tons per year if the total emissions
4535 from such sources not complying with Section 215.926 does not exceed
4536 5.0 tons per year, and
4537
- 4538 2) Emission sources whose emissions of volatile organic material are subject
4539 to limits in 35 Ill. Adm. Code 230 or 35 Ill. Adm. Code 231; or the Lowest
4540 Achievable Emission Rate, pursuant to 35 Ill. Adm. Code 203; or Best
4541 Available Control Technology, pursuant to 40 CFR 52.21 (1987) or
4542 Section 9.4 of the Act. The Board incorporates by reference 40 CFR
4543 52.21 (1987). This incorporation includes no subsequent amendments or
4544 editions.
4545
- 4546 e) For the purposes of this Subpart, an emission source shall be considered regulated
4547 by a Subpart if it is subject to the limits of that Subpart or it would be subject to
4548 the limits of that Subpart if the emission sources, emitting VOM, had sufficient
4549 size, throughput or emissions, or if the emission source did not meet a specific
4550 exemption contained in that Subpart.
4551
- 4552 f) For the purposes of this Subpart, uncontrolled volatile organic material emissions
4553 are the emissions of volatile organic material which would result if no air
4554 pollution control equipment were used.
4555

4556 (Source: Added at 12 Ill. Reg. 7311, effective April 8, 1988)

4557

4558 **Section 215.923 Permit Conditions**

4559

4560 No person shall violate any condition in a permit when the condition results in exclusion of the
4561 plant or an emission source from this Subpart.

4562

4563 (Source: Added at 12 Ill. Reg. 7311, effective April 8, 1988)

4564

4565 **Section 215.926 Control Requirements**

4566

4567 a) Every owner or operator of an emission source of volatile organic material shall
4568 operate in compliance with RACT, which for emission sources subject to this
4569 Subpart shall be:

4570

4571 1) Emission capture and control techniques which achieve an overall
4572 reduction in uncontrolled volatile organic material emissions of at least
4573 81%; or

4574

4575 2) For coating lines, volatile organic material emissions not to exceed 0.42
4576 kg/l (3.5 lb/gal) of coating materials as applied, excluding water and any
4577 compounds which are specifically exempted from the definition of volatile
4578 organic material, on a daily basis. Owners and operators complying with
4579 this subsection are not required to comply with Section 215.301; or

4580

4581 3) An adjusted RACT emissions limitation obtained pursuant to Subpart I.

4582

4583 b) Owners and operators of emission sources subject to this Subpart shall comply
4584 with its requirements by April 1, 1989.

4585

4586 (Source: Added at 12 Ill. Reg. 7311, effective April 8, 1988)

4587

4588 **SUBPART QQ: MISCELLANEOUS FORMULATION MANUFACTURING PROCESSES**

4589

4590 **Section 215.940 Applicability**

4591

4592 a) The requirements of this Subpart shall apply to the following counties: Cook,
4593 DuPage, Kane, Lake, Macoupin, Madison, McHenry, Monroe, St. Clair and Will.

4594

4595 b) The requirements of this Subpart shall apply to a plant's miscellaneous
4596 formulation manufacturing process emission sources, which are not regulated by
4597 Subparts B, E, F, N, P, Q, R, S, U, V, X, Y, or Z, if the plant is subject to this
4598 Subpart. A plant is subject to this Subpart if it contains process emission sources,
4599 not regulated by Subparts B, E, F, N, P, Q, R, S, U, V, X, Y, or Z, which as a
4600 group would emit 100 tons or more per year of volatile organic material if no air
4601 pollution control equipment were used.

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- c) If a plant ceases to fulfill the criteria of subsection (b), the requirements of this Subpart shall continue to apply to a miscellaneous formulation manufacturing process emission source which was subject to the met the control requirements of Section 215.946.
- d) No limits under this Subpart shall apply to:
 - 1) Emission sources with emissions of volatile organic material to the atmosphere less than or equal to 2.5 tons per year if the total emissions from such sources not complying with Section 215.946 does not exceed 5.0 tons per year, and
 - 2) Emission sources whose emissions of volatile organic material are subject to limits in 35 Ill. Adm. Code 230 or 35 Ill. Adm. Code 231; or the Lowest Achievable Emission Rate, pursuant to 35 Ill. Adm. 203; or Best Available Control Technology, pursuant to 40 CFR 52.21 (1987) or Section 9.4 of the Act. The Board incorporates by reference 40 CFR 52.21 (1987). This incorporation includes no subsequent amendments or editions.
- e) For the purposes of this Subpart, an emission source shall be considered regulated by a Subpart if it is subject to the limits of that Subpart or it would be subject to the limits of that Subpart if the emission sources, emitting VOM, had sufficient size, throughput or emissions, or if the emission source did not meet a specific exemption contained in that Subpart.
- f) For the purposes of this Subpart, uncontrolled volatile organic material emissions are the emissions of volatile organic material which would result if no air pollution control equipment were used.

(Source: Added at 12 Ill. Reg. 7311, effective April 8, 1988)

Section 215.943 Permit Conditions

No person shall violate any condition in a permit when the condition results in exclusion of the plant or an emission source from this Subpart.

(Source: Added at 12 Ill. Reg. 7311, effective April 8, 1988)

Section 215.946 Control Requirements

- a) Every owner or operator of an emission source of volatile organic material shall operate in compliance with RACT, which for emission sources subject to this Subpart shall be:
 - 1) Emission capture and control techniques which achieve an overall

4648 reduction in uncontrolled volatile organic material emissions of at least
4649 81%; or

4650
4651 2) An adjusted RACT emissions limitation obtained pursuant to Subpart I.

4652
4653 b) Owner and operators of emission sources subject to this Subpart shall comply
4654 with its requirements by April 1, 1989

4655
4656 (Source: Added at 12 Ill. Reg. 7311, effective April 8, 1988)

4657
4658 SUBPART RR: MISCELLANEOUS ORGANIC CHEMICAL MANUFACTURING
4659 PROCESSES

4660
4661 **Section 215.960 Applicability**

4662
4663 a) The requirements of this Subpart shall apply to the following counties: Cook,
4664 DuPage, Kane, Lake, Macoupin, Madison, McHenry, Monroe, St. Clair and Will.

4665
4666 b) The requirements of this Subpart shall apply to a plant's miscellaneous organic
4667 chemical manufacturing process emission sources which are not regulated by
4668 Subparts B, E, F, N, P, Q, R, S, U, V, X, Y, or Z if the plant is subject to this
4669 Subpart. A plant is subject to this Subpart if it contains process emission sources,
4670 not regulated by Subparts B, E, F, N, P, Q, R, S, U, V, X, Y, or Z, which as a
4671 group would emit 100 tons or more per year of volatile organic material if no air
4672 pollution control equipment were used.

4673
4674 c) If a plant ceases to fulfill the criteria of subsection (b), the requirements of this
4675 Subpart shall continue to apply to a miscellaneous organic chemical
4676 manufacturing process emission source which was subject to and met the control
4677 requirements of Section 215.966.

4678
4679 d) No limits under this Subpart shall apply to:

4680
4681 1) Emission sources with emissions of volatile organic material to the
4682 atmosphere less than or equal to 1.0 ton per year if the total emissions
4683 from such sources not complying with ~~Section~~Section 215.966 does not
4684 exceed 5.0 tons per year, and

4685
4686 2) Emission sources whose emissions of volatile organic material are subject
4687 to limits in 35 Ill. Adm. Code 230 or 35 Ill. Adm. Code 231; or the Lowest
4688 Achievable Emission Rate, pursuant to 35 Ill. Adm. Code 203; or Best
4689 Available Control Technology, pursuant to 40 CFR 52.21 (1987) or
4690 Section 9.4 of the Act. The Board incorporates by reference 40 CFR
4691 52.21 (1987). This incorporation includes no subsequent amendments or
4692 editions.

4693

4694 e) For the purposes of this Subpart, an emission source shall be considered regulated
4695 by a Subpart if it is subject to the limits of that Subpart or it would be subject to
4696 the limits of that Subpart if the emission sources, emitting VOM, had sufficient
4697 size, throughput or emissions, or if the emission source did not meet a specific
4698 exemption contained in that Subpart.

4699
4700 f) For the purposes of this Subpart, uncontrolled volatile organic material emissions
4701 are the emissions of volatile organic material which would result if no air
4702 pollution control equipment were used.

4703
4704 (Source: Added at 12 Ill. Reg. 7311, effective April 8, 1988)

4705
4706 **Section 215.963 Permit Conditions**

4707
4708 No person shall violate any condition in a permit when the condition results in exclusion of the
4709 plant or an emission source from this Subpart.

4710
4711 (Source: Added at 12 Ill. Reg. 7311, effective April 8, 1988)

4712
4713 **Section 215.966 Control Requirements**

4714
4715 a) Every owner or operator of an emission source of volatile organic material shall
4716 operate in compliance with RACT, which for emission sources subject to this
4717 Subpart shall be:

4718
4719 1) Emission capture and control techniques which achieve an overall
4720 reduction in uncontrolled volatile organic material emissions of at least
4721 81%; or

4722
4723 2) An adjusted RACT emissions limitation obtained pursuant to Subpart I.

4724
4725 b) Owners and operators of emission sources subject to this Subpart shall comply
4726 with its requirements by April 1, 1989.

4727
4728 (Source: Added at 12 Ill. Reg. 7311, effective April 8, 1988)

4729
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4731 **Section 215.APPENDIX A Rule Into Section Table**

4732

RULE	SECTION
205(a)	215.121
205(b)	215.122
205(c)	215.141
205(d)	215.142
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205(f)(1)	215.302
205(f)(2)(A)	215.541
205(f)(2)(B)	215.303
205(f)(2)(C)	215.562
205(f)(2)(D)	215.304
205(g)(1)	215.441
205(g)(2)	215.143
205(g)(3)	215.144
205(h)	215.101
205(i)	215.102
205(j)(1)	Appendix C 215.125, 215.185 215.211 215.405 215.465 215.604
205(j)(2) & (3)	215.125 215.211 215.405 215.453 215.465 215.604
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205(k)(2)(B)	215.183
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205(l)(2)	215.443
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RULE	SECTION
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205(l)(9)	215.450
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205(m)(2)	215.123(c)
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205(m)(3)	215.583
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205(n)(1)	215.204
205(n)(2)	215.205
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205(n)(4)	215.207
205(n)(5)	215.208
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205(o)(1)	215.581
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205(o)(3)(A)	215.123(a)
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205(r)	215.106
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205(t)(3)	215.463
205(t)(4)	215.464
205(u)(1)	215.601
205(u)(2)	215.602
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104(a)(1)	215.185
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RULE

SECTION

215.466 and 215.605

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4736 **Section 215.APPENDIX B Section Into Rule Table**
 4737

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215.103	--
215.104	--
215.105	--
215.106	205(r)
215.121	205(a)
215.122	205(b)
215.123(a)	205(o)(3)(A)
215.123(b)	205(o)(3)(B)
215.123(c)	205(m)(2)
215.124(a)	205(o)(3)(C)
215.124(b)	205(o)(3)(D)
215.125	205(j)(1), (2) and (3)
215.126	104(h)
215.141	205(c)
215.142	205(d)
215.143	205(g)(2)
215.144	205(g)(3)
215.181	205(k)(1)
215.182	205(k)(2)(A)
	205(k)(3)(A)
	104(a)(1) and (2)
215.183	205(k)(2)(B)
	205(k)(3)(B)
	104(a)(1)
215.184	205(k)(2)(C)
	205(k)(3)(C)
	104(a)(1)
215.185	104(a)(1), 104(a)(2), 205(j)(1)
215.201	205(f)(2)(D)
215.202	205(m) (Preamble)
	205(m)(1)
215.204	205(n)(1)
215.205	205(n)(2)
215.206	205(n)(3)
215.207	205(n)(4)
215.208	205(n)(5)
215.209	205(n)(6)
215.210	205(m)(5)
215.211	205(j)(1), (2) and (3)

SECTION	RULE
215.212	104(h)
215.213	104(b)(1)
215.301	205(f) (Preamble)
215.302	205(f)(1)
215.303	205(f)(2)(B)
215.304	205(f)(2)(D)
215.401	205(s)(1)
215.402	205(s)(2)
215.403	205(s)(3)
215.404	205(s)(4)
215.405	205(j)(1), (2) and (3)
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215.441	205(g)(1)
215.442	205(l)(1)
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215.446	205(l)(5)
215.447	205(l)(6)
215.448	205(l)(7)
215.449	205(l)(8)
215.450	205(l)(9)
215.451	205(l)(10)
215.452	205(m)(4)
215.453	205(j)(1), (2) and (3)
	104(a)(1), 104(g)(2)
215.461	205(t)(1)
215.462	205(t)(2)
215.463	205(t)(3)
215.464	205(t)(4)
215.465	205(j)(1), (2) and (3)
215.466	104(h)
215.451	205(f)(2)(A)
215.561	205(e)
215.562	205(f)(2)(C)
215.563	205(g)
	104(a)(2)
215.581	205(m) (Preamble)
	215(m)(2)
	205(o)(1)
215.582	205(m) (Preamble)
	205(m)(2)
	205(o)(2)

SECTION	RULE
215.583	205(m) (Preamble) 205(m)(3), 205(p)
215.601	205(u)(1), 104(a)(2)
215.602	205(u)(2)
215.603	205(u)(3)
215.604	205(j)(1), (2) and (3)
215.605	104(h)
215.606	104(a)(2)
Appendix A	Added in Codification
Appendix B	Added in Codification
Appendix C	104(a) 104(g) 104(h) 205(j) 205(m)

4738

4739

4740 **Section 215.APPENDIX C Past Compliance Dates**

4741

4742 Prior to codification, compliance programs, project completion schedules, compliance dates and
 4743 compliance schedules for all sources were regulated by Rules 104(a), 104(g), 109(h), 205(j) and
 4744 205(m). Past compliance date rules have been deleted from the text of the codified rules; future
 4745 compliance date rules have been grouped with the rules governing the type of source. As an aid
 4746 to the public, the old text of the compliance date rules are set out at length in this Appendix.
 4747

4747

4748

Rule 104(a)

4749

Compliance Programs and Project Completion Schedules – Applicability

4750

4751 (1) No person shall cause or allow the operation of an emission source which
 4752 is not in compliance with the requirements of Rule 205(k) unless such
 4753 person is in compliance with a compliance program as provided for in
 4754 Rule 104(g) or (h) or Rule 205(m).
 4755

4755

4756 2) Notwithstanding Rule 104(a)(1), cold cleaning degreasers, coin-operated
 4757 dry cleaning operations, dry cleaning facilities consuming less than 30
 4758 gallons per month (360 gallons per year) of perchloroethylene, and
 4759 sources subject to Rule 205(g) are not required to submit or obtain an
 4760 Agency approved compliance plan or project completion schedule.
 4761

4761

4762 3) Any compliance plan or project completion schedule, where applicable,
 4763 shall be a binding condition of the operating permit for the source.
 4764

4764

4765

Rule 104(g)

4766 Compliance Programs and Project Completion Schedules –
 4767 Submission and Approval Dates
 4768

4769 The owner or operator of an emission source subject to the following rules shall have a
 4770 Compliance Plan and a Project Completion Schedule, where applicable, approved by the Agency
 4771 by the following dates. A Compliance Plan and a Project Completion Schedule, where
 4772 applicable, shall be submitted at least 90 days before the following dates.
 4773

- 4774 1) By February 1, 1980. Gasoline dispensing facilities subject to Rule 205(p)
 4775 and degreasers subject to Rule 205(k) located in Cook, DuPage, Lake,
 4776 Kane, McHenry and Will counties.
 4777
- 4778 2) By March 1, 1980. Petroleum refineries subject to Rule 205(1), except
 4779 (1)(4)(10). Gasoline dispensing facilities subject to Rule 205(p) in Boone,
 4780 Madison, St. Clair, Peoria, Tazewell, Rock Island and Winnebago
 4781 counties.
 4782
- 4783 3) By April 1, 1980. Degreasers subject to Rule 205(k) located in counties
 4784 other than Cook, DuPage, Lake, Kane, McHenry or Will. Bulk gasoline
 4785 plants, bulk gasoline terminals and petroleum liquid storage tanks subject
 4786 to Rule 205(o), except (o)(3), located in Cook, DuPage, Lake, Kane,
 4787 McHenry and Will counties.
 4788
- 4789 4) By April 1, 1980. Coating lines subject to Rule 205(n), except (n)(1)(J),
 4790 and (K). Bulk gasoline plants, bulk gasoline terminals and petroleum
 4791 liquid storage tanks subject to Rule 205(o), except (o)(3), which are
 4792 located in counties other than Cook, Lake, DuPage, Kane, McHenry or
 4793 Will.
 4794

4795 Rule 104(h)

4796 Compliance Programs and Project Completion Schedules –
 4797 RACT II Compliance Plan Submission and Approval
 4798

- 4799
- 4800 1) The owner or operator ~~of an~~ emission source subject to Rule 205(j)(1)
 4801 shall submit to the Agency a ~~compliance~~ compliance plan, including a
 4802 project completion schedule where applicable, no later than:
 4803

Rule	Days After Promulgation
(A) Rules 205(o)(3), 205(s) and 205(t)	90
(B) Rules 205(u)(1)(A) and (B)	90
(C) Rule 205(n)(1)(J) and (K)	210

- 4804
- 4805 2) The owner or operator of an emission source subject to Rule 205(j)(2)
 4806 shall submit to the Agency a compliance plan, including a project

4807 completion schedule where applicable, no later than December 31, 1986.

4808
 4809 4) Unless the submitted ~~compliance~~ compliance plan or schedule is
 4810 disapproved by the Agency, the owner or operator of a facility or emission
 4811 source subject to the rules specified in Rule 104(h)(1), (2), or (3) may
 4812 operate the emission source according to the plan and schedule as
 4813 submitted.

4814
 4815 5) The plan and schedule shall meet the requirements of Rule 104(b)
 4816 including specific interim dates as required in Rule 104(b)(2).

4817 Rule 205(j)
 4818 Compliance Dates
 4819

4820
 4821 1) Except as otherwise stated in subsection (2), every owner or operator of an
 4822 emission source shall comply with the standards and limitations of Rule
 4823 205 in accordance with the dates shown in the following table:
 4824

<u>Rule</u>	<u>Type of Source</u>	<u>Compliance Date</u>
205(a) - (i)	New Emission Sources	April 14, 1972
205(a) - (i)	Existing Emission Sources	December 31, 1973
205(k)	All Emission Sources	July 1, 1980
205(l)(1)-(3)	All Emission Sources	July 1, 1980
205(l)(4) - (10)	All Emission Sources	See Rule (m)
205(n)	All Emission Sources	December 31, 1982*
205(n)(1)(J) and (K)	All Emission Sources	December 31, 1983
205(n)(1)(K)(ii)	All Emission Sources	See Rule 205(m)(5)
205(o)(1) and (2) (o)(3)	All Emission Sources	July 1, 1981
205(p)	All Emission Sources	See rule 205(m)
205(q)	All Emission Sources	December 31, 1980
205(s) and (t)	All Emission Sources	December 31, 1983
205(u)(1)(A)-(C)	All Emission Sources	December 31, 1983

205(u)(1)(D)-(G) All Emission Sources May 1, 1983

4825
4826 *Except for automobile and light-duty truck manufacturing plants achieving final compliance
4827 under a footnote to Rule 205(n)(1).
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4829 2) If an emission source is not located in one of the counties listed below**
4830 and is also not located in any county contiguous thereto, the owner or
4831 operator of the emission source shall comply with the requirements of rule
4832 205(1)(4)-(10), (n)(1)(J) or (K), (o)(3), (s), (t), or (u) no later than
4833 December 31, 1987:
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Cook	Macoupin
DuPage	Madison
Kane	Monroe
Lake	Saint Clair

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4836 3) Notwithstanding subsection (2) above, if any county is designated as non-
4837 attainment by the U.S. Environmental Protection Agency at any time
4838 ~~subsequent~~ subsequent to the effective date of this Rule, the owner or
4839 operator of an ~~emission~~ emission source located in that county or any county
4840 contiguous to that county who would otherwise be subject to the
4841 compliance date in subsection (2) shall comply with the requirements of
4842 Rule 205(1)(4)-(10), (n)(1)(J) or (K), (o)(3), (s), (t), or (u) within one year
4843 from the date of redesignation but in no case later than December 31,
4844 1987.
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4846 ** These counties are proposed to be designated as nonattainment by the U.S. Environmental
4847 Protection Agency in Federal Register, Volume 47, page 31588 (July 21, 1982).
4848

4849 Rule 205(m)
4850 Compliance Schedules

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4852 The requirements of this section shall not apply to any source for which a Project Completion
4853 Schedule has been submitted to and approved by the Agency under Rule 104. The owner of any
4854 emission source subject to the requirements of this section shall certify to the Agency by January
4855 15 of each year beginning January 15, 1980, whether increments of progress required to be met
4856 in the previous year have been met.

4857
4858 1) Coating Lines
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4860 The owner or operator of coating lines subject to the requirements of Rule
4861 205(n), except (n)(1)(J) and (K), shall take the following actions:
4862 (A) Submit to the Agency a Compliance Program that meets the
4863 requirements of Rule 104(b)(1) by January 1, 1980.
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- (B) For sources that, under the approved Compliance Plan, will comply with Rule 205(n) by use of low solvent coating technology the following ~~enerements~~increments of progress, shall be met:
- (i) Submit to the Agency by July 1, 1980 and every six months there after a report describing in detail the progress in the previous six months in the development, application testing, product quality, customer acceptance and FDA or other government agency approval of the low solvent coating technology.
 - ii) Initiate process modifications to allow use of low solvent coatings by April 1, 1982.
 - iii) Complete process modifications to allow use of low solvent coatings by October 1, 1982.
- C) For sources that, under the approved Compliance Plan, will comply with Rule 205(n) by installing ~~emissin~~emission control equipment, the following increments of progress shall be met:
- i) Award contracts for the emission control ~~wquipment~~equipment or issue orders for the purchase of component parts by July 1, 1980.
 - ii) Initiate on-site construction or ~~installagion~~installation of the emission control equipment by July 1, 1982.
 - iii) Complete on-site construction or installation of the emission control equipment by October 1, 1982.
- 2) Bulk Gasoline Plants, Bulk Gasoline Terminals, Petroleum Liquid Storage Tanks
- The owner of an emission source subject to the requirements of Rule 205(o), except (o)(3), shall take the following actions:
- A) Submit to the Agency a ~~Complaiee~~Compliance Program that meets the requirements of Rule 104(b)(1) by the date specified in Rule 104(g);
 - B) Award contracts for emission control systems or issue orders for the purchase of component parts by July 1, 1980.
 - C) Initiate on-site construction or installation of the emission control system by January 1, 1981.

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- D) Complete on-site construction or installation of the emission control system and achieve final compliance by July 1, 1981.
 - 3) Gasoline Dispensing Facilities
 - Owners of gasoline dispensing facilities subject to the requirements of Rule 205(p) shall take the following actions:
 - A) Submit to the Agency a Compliance Program that meets the requirements of Rule 104(b)(1) by the date specified in Rule 104(g);
 - B) Achieve final compliance for 33 percent of all gasoline dispensing facilities owned by the ~~owner~~owner by July 1, 1980.
 - C) Achieve final ~~compliance~~compliance for 66 percent of all gasoline dispensing facilities owned by the owner by July 1, 1981.
 - D) Achieve final compliance for 100 percent of all gasoline dispensing facilities owned by the ~~owner~~owner by July 1, 1982.
 - 4) Petroleum Refinery Leaks
 - The owner or operator of a petroleum refinery shall adhere to the increments of progress contained in the following schedule:
 - A) Submit to the Agency a monitoring program plan consistent with Rule 205(1)(5) prior to June 1, 1983.
 - B) Submit the first monitoring report pursuant to Rule 205(1)(6)(A)(i) to the Agency prior to July 1, 1983.
 - 5) Coating Lines Subject to Rule 205(n)(1)(K)(ii)
 - The owner or operator of coating lines subject to Rule 205(n)(1)(k)(ii) may in lieu of compliance with Rule 205(j)(1) demonstrate compliance through the use of a low solvent coating technology by taking the following actions:
 - A) Submit to the Agency a Compliance ~~Plan~~Plan, including project completion schedule, that meets the requirements of Rule 104(b)(1) within 210 days after the effective date of this rule; and
 - B) Meet the following increments of progress:

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- i) Submit to the Agency by July 1, 1984 and every six months thereafter a report describing ~~in detail~~in detail the progress made in the development, application testing, product quality, customer acceptance, and FDA or government agency approval of the low solvent coating technology;
 - ii) Initiate process modifications to allow the use of low solvent coatings as soon as coatings meeting Board requirements become commercially available for production use; and
 - iii) Achieve final compliance as expeditiously as possible but no later than December 31, 1984.
- 6) Rotogravure and Flexography Low Solvent Ink Alternative Compliance Plan
- The owner or operator of an emission source subject to Rule 205(s) may in lieu of compliance with Rules 104(h)(1)(A) and 205(j) demonstrate compliance through the use of a low solvent ink program by taking the following actions:
- A) Submit to the Agency a Compliance Plan, including a compliance schedule, by December 31, 1983 which demonstrates:
 - i) substantial emission reductions early in the compliance schedule;
 - ii) greater reductions in emissions than would have ~~occurred~~occurred ~~without~~without a low solvent ink program; and
 - iii) final compliance as expeditiously as possible but no later than December 31, 1987; and
 - B) Certify to the Agency that
 - i) a low solvent ink compliance strategy is not technically available which would not enable the emission source to achieve compliance by the date specified in Rule 205(j); and
 - ii) an unreasonable economic burden would be incurred if the owner or operator were required to demonstrate compliance by the date specified in Rule 205(j); and
 - C) Agree to install one of the control alternatives specified in Rule

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205(s)(1)(C) by June 31, 1986 if the specified low-solvent ink strategy fails to achieve scheduled reductions by December 31, 1985.

5008 **Section 215.APPENDIX D List of Chemicals Defining Synthetic Organic Chemical and**
 5009 **Polymer Manufacturing**
 5010

CAS No. ^a	Chemical
105-57-7	Acetal
75-07-0	Acetaldehyde
107-89-1	Acetaldol
60-35-5	Acetamide
103-84-4	Acetanilide
64-19-7	Acetic acid
108-24-7	Acetic anhydride
67-64-1	Acetone
75-86-5	Acetone cyanohydrin
75-05-8	Acetonitrile
98-86-2	Acetophenone
75-36-5	Acetyl chloride
74-86-2	Acetylene
107-02-8	Acrolein
79-06-1	Acrylamide
79-10-7	Acrylic acid
107-13-1	Acrylonitrile
124-04-9	Adipic acid
111-69-3	Adiponitrile
(b)	Alkyl naphthalenes
107-18-6	Allyl alcohol
107-05-1	Allyl chloride
1321-11-5	Aminobenzoic acid
111-41-1	Aminoethylethanolamine
123-30-8	p-aminophenol
628-63-7, 123-92-2	Amyl acetates
71-41-0 ^c	Amyl alcohols
110-58-7	Amyl amine
543-59-9	Amyl chloride
110-68-7 ^c	Amyl mercaptans
1322-06-1	Amyl phenol
62-53-3	Aniline
142-04-1	Aniline hydrochloride
29191-52-4	Anisidine
100-66-3	Anisole
118-92-3	Anthranilic acid
84-65-1	Anthraquinone
100-52-7	Benzaldehyde
55-21-0	Benzamide
71-43-2	Benzene
98-48-6	Benzendisulfonic acid

98-11-3	Benzenesulfonic acid
134-81-6	Benzil
76-93-7	Benzilic acid
134-81-6	Benzil
76-93-7	Benzilic acid
65-85-0	Benzoic acid
119-53-9	Benzoin
100-47-0	Benzonitrile
119-61-9	Benzophenone
98-07-7	Benzotrichloride
98-88-4	Benzoyl chloride
100-51-6	Benzyl alcohol
100-46-9	Benzylamine
120-51-4	Benzyl benzoate
100-44-7	Benzyl chloride
98-87-3	Benzyl dichloride
92-52-4	Biphenyl
80-05-7	Bisphenol A
10-86-1	Bromobenzene
27497-51-4	Bromonaphthalene
106-99-0	Butadiene
106-98-9	1-butene
123-86-4	n-butyl acetate
141-32-2	n-butyl acrylate
71-36-3	n-butyl alcohol
78-92-2	s-butyl alcohol
75-65-0	t-butyl alcohol
109-73-9	n-butylamine
13952-84-6	s-butylamine
75-64-9	t-butylamine
98-73-7	p-tert-butyl benzoic acid
107-88-0	1,3-butylene glycol
123-72-8	n-butyraldehyde
107-92-6	Butyric acid
106-31-0	Butyric anhydride
109-74-0	Butyronitrile
105-60-2	Caprolactam
75-1-50	Carbon disulfide
558-13-4	Carbon tetrabromide
55-23-5	Carbon tetrachloride
9004-35-7	Cellulose acetate
79-11-8	Chloroacetic acid
108-42-9	m-chloroaniline
95-51-2	o-chloroaniline
106-47-8	p-chloroaniline
35913-09-8	Chlorobenzaldehyde

108-90-7	Chlorobenzene
118-91-2,	Chlorobenzoic acid
535-80-8,	
74-11-3 ^c	
2136-81-4	Chlorobenzotrichloride
2136-89-2,	
5216-25-1 ^c	
1321-03-5	Chlorobenzoyl chloride
75-45-6	Chlorodifluoroethane
25497-29-4	Chlorodifluoromethane
67-66-3	Chloroform
25586-43-0	Chloronaphthalene
88-73-3	o-chloronitrobenzene
100-00-5	p-chloronitrobenzene
25167-80-0	Chlorophenols
126-99-8	Chloroprene
7790-94-5	Chlorosulfonic acid
108-41-8	m-chlorotoluene
95-49-8	o-chlorotoluene
106-43-4	p-chlorotoluene
75-72-9	Chlorotrifluoromethane
108-39-4	m-cresol
95-48-7	o-cresol
106-44-5	p-cresol
1319-77-3	Mixed cresols
1319-77-3	Cresylic acid
4170-30-0	Crotonaldehyde
3724-65-0	Crontonic acid
98-82-8	Cumene
80-15-9	Cumene hydroperoxide
372-09-8	Cyanoacetic acid
506-77-4	Cyanogen chloride
108-80-5	Cyanuric acid
108-77-0	Cyanuric chloride
110-82-7	Cyclohexane
108-93-0	Cyclohexanol
108-94-1	Cyclohexanone
110-83-8	Cyclohexene
108-91-8	Cyclohexylamine
111-78-4	Cyclooctadiene
112-30-1	Decanol
123-4-2	Diacetone alcohol
27576-04-1	Diaminobenzoic acid
95-76-1,	Dichloroaniline
95-82-9,	
554-00-7,	

608-27-5,	
608-31-1,	
626-43-7,	
27134-27-6,	
57311-92-9 ^c	
541-73-1	m-dichlorobenzene
95-50-1	o-dichlorobenzene
106-46-7	p-dichlorobenzene
75-71-8	Dichlorodifluoromethane
111-44-4	Dichloroethyl ether
107-06-2	1, 2-dichloroethane (EDC)
96-32-1	dichlorohydrin
26952-23-8	Dichloropropene
101-83-7	Dicyclohexylamine
109-89-7	Diethylamine
111-46-6	Diethylene glycol
112-36-7	Diethylene glycol diethyl ether
111-96-6	Diethylene glycol dimethyl ether
112-34-5	Diethylene glycol monobutyl ether
124-17-7	Diethylene glycol monobutyl ether acetate
111-90-0	Diethylene Diethylene glycol monoethyl ether
112-15-2	Diethylene glycol monoethyl ether acetate
111-77-3	Diethylene glycol monomethyl ether
64-67-5	Diethyl sulfate
75-37-6	Difluoroethane
25167-70-8	Diisobutylene
26761-40-0	Diisodecyl phthalate
27754-26-3	Diisooctyl phthalate
674-82-8	Diketene
124-40-3	Dimethylamine
121-69-7	N,N-dimethylaniline
115-10-6	N,N-dimethyl ether
68-12-2	N,N-dimethylformamide
57-14-7	Dimethylhydrazine
77-78-1	Dimethyl sulfate
75-18-3	Dimethyl sulfide
67-68-5	Dimethyl sulfoxide
120-61-6	Dimethyl terephthalate
99-34-3	3,5-dinitrobenzoic acid
51-28-5	Dinitrophenol
25321-14-6	Dinitrotoluene
123-9-1	Dioxane
646-06-0	Dioxilane
122-39-4	Diphenylamine

101-84-4	Diphenyl oxide
102-08-9	Diphenyl thiourea
25265-71-8	Dipropylene glycol
25378-22-7	Dodecene
28675-17-4	Dodecylaniline
27193-86-8	Dodecylphenol
106-89-8	Epichlorohydrin
64-17-5	Ethanol
141-43-5 °	Ethanolamines
141-78-6	Ethyl acetate
141-97-9	Ethyl acetoacetate
140-8-5	Ethyl acrylate
75-04-7	Ethylamine
100-41-4	Ethylbenzene
74-96-4	Ethyl bromide
9004-57-3	Ethylcellulose
75-00-3	Ethyl chloride
105-39-5	Ethyl chloroacetate
105-56-6	Ethylcyanoacetate
74-85-1	Ethylene
96-49-1	Ethylene carbonate
107-07-3	Ethylene chlorohydrin chloroydrin
107-15-3	Ethylenediamine
106-93-4	Ethylene dibromide
107-21-1	Ethylene glycol
111-55-7	Ethylene glycol diacetate
110-71-4	Ethylene glycol dimethyl ether
111-76-2	Ethylene glycol monobutyl ether
112-07-2	Ethylene glycol monobutyl ether acetate
110-80-5	Ethylene glycol monoethyl ether
111-15-9	Ethylene <u>glycol monoethylglycolmonoethyl</u> ether acetate
109-86-4	Ethylene <u>glycol monoethylglycolmonoethyl</u> ether
110-49-6	Ethylene <u>glycol</u> <u>monomethylglycolmonomethyl</u> ether acetate
122-99-6	Ethylene glycol monophenyl ether
2807-30-9	Ethylene <u>glycol</u> <u>monopropylglycolmonopropyl</u> ether
75-21-8	Ethylene oxide
60-29-7	Ethyl ether
104-76-7	2-ethylhexanol
122-51-0	Ethyl orthoformate
95-92-1	Ethyl oxalate
41892-71-1	Ethyl sodium oxaloacetate

50-00-0	Formaldehyde
75-12-7	Formamide
64-18-6	Formic acid
110-17-8	Fumaric acid
98-01-1	Furfural
56-81-5	Glycerol (Synthetic)
26545-73-7	Glycerol dichlorohydrin
25791-96-2	Glycerol triether
56-40-6	Glycine
107-22-2	Glyoxal
118-74-1	Hexachlorobenzene
67-72-1	Hexachloroethane
36653-82-4	Hexadecyl alcohol
124-09-4	Hexamethylenediamine
629-11-8	Hexamethylene glycol
100-97-0	Hexamethylenetetramine
74-90-8	Hydrogen cyanide
123-31-9	Hydroquinone
99-96-7	p-hydroxybenzoic acid
26760-64-5	Isoamylene
78-83-1	Isobutanol
110-19-0	Isobutyl acetate
155-11-7	Isobutylene
78-84-2	Isobutyraldehyde
79-31-2	Isobutyric acid
25339-17-7	Isodecanol
26952-21-6	Isooctyl alcohol
78-78-4	Isopentane
78-59-1	Isophorone
121-91-5	Isophthalic acid
78-79-5	Isoprene
67-63-0	Isopropanol
108-21-4	Isopropyl acetate
75-31-0	Isopropylamine
75-29-6	Isopropyl chloride
25168-06-3	Isopropylphenol
463-51-4	Ketene
(b)	Linear alkyl sulfonate
123-01-3	Linear alkylbenzene (Linear dodecylbenzene)
110-16-7	Maleic acid
108-31-6	Maleic anhydride
6915-15-7	Malic acid
141-79-7	Mesityl oxide
121-47-1	Metanilic acid
79-41-4	Methacrylic acid
563-47-3	Methallyl chloride

67-56-1	Methanol
79-20-9	Methyl acetate
105-45-3	Methyl acetoacetate
74-89-5	Methylamine
100-61-8	n-methylaniline
74-83-9	Methyl bromide
37365-71-2	Methyl butynol
74-87-3	Methyl chloride
108-87-2	Methyl cyclohexane
1331-22-2	Methyl cyclohexanone
75-09-2	Methylene chloride
101-77-9	Methylene dianiline
101-68-8	Methylene diphenyl diisocyanate
78-93-3	Methyl ethyl ketone
107-31-3	Methyl formate
108-11-2	Methyl isobutyl carbinol
108-10-1	Methyl isobutyl ketone
80-62-6	Methyl methacrylate
77-75-8	Methylpentynol
98-83-9	a-methylstyrene
110-91-8	Morpholine
85-47-2	a-naphthalene sulfonic acid
120-18-3	b-naphthalene sulfonic acid
90-15-3	a-naphthol
135-19-3	b-naphthol
75-98-9	Neopentanoic acid
88-74-4	o-nitroaniline
100-01-6	p-nitroaniline
91-23-6	o-nitroanisole
100-17-4	p-nitroanisole
98-95-3	Nitrobenzene
27178-83-2 °	Nitrobenzoic acid (o, m, & p)
79-24-3	Nitroethane
75-52-5	Nitromethane
88-75-5	2-Nitrophenol
25322-01-4	Nitropropane
1321-12-6	Nitrotoluene
27215-95-8	Nonene
25154-52-3	Nonylphenol
27193-28-8	Octylphenol
123-63-7	Paraldehyde
155-77-5	Pentaerythritol
109-66-0	n-pentane
109-67-1	l-pentene
127-18-4	Perchloroethylene
594-42-3	Perchloromethyl mercaptan

94-70-2	o-phenetidine
156-43-4	p-phenetidine
108-95-2	Phenol
98-67-9, 585-38-6, 609-46-1 133-39-7 ^c	Phenolsulfonic acids
91-40-7 (b)	Phenyl anthranilic acid
75-44-5	Phenylenediamine
85-44-9	Phosgene
85-41-6	Phthalic anhydride
108-99-6	Phthalimide
110-85-0	b-picoline
9003-29-6, 25036-29-7 ^c	Piperazine
25322-68-3	Polybutenes
25322-69-4	Polyethylene glycol
123-38-6	Polypropylene glycol
79-09-4	Propionaldehyde Propionaldehyde
71-23-8	Propionic acid
107-10-8	n-propyl alcohol
540-54-5	Propylamine
115-07-1	Propyl chloride
127-00-4	Propylene
78-87-5	Propylene chlorohydrin
57-55-6	Propylene dichloride
75-56-9	Propylene glycol
110-86-1	Propylene oxide
106-51-4	Pyridine
108-46-3	Quinone
27138-57-4	Resorcinol
69-72-7	Resorcylic acid
127-09-3	Salicylic acid
532-32-1	Sodium acetate
9004-32-4	Sodium benzoate
3926-62-3	Sodium carboxymethyl cellulose
141-53-7	Sodium chloroacetate
139-02-6	Sodium formate
110-44-1	Sodium phenate
100-42-5	Sorbic acid
110-15-6	Styrene
110-61-2	Succinic acid
121-57-3	Succinitrile
126-33-0	Sulfanilic acid
1401-55-4	Sulfolane
	Tannic acid

100-21-0	Terephthalic acid
79-34-5 ^c	Tetrachloroethanes
117-08-8	Tetrachlorophthalic anhydride
78-00-2	Tetraethyl lead
119-64-2	Tetrahydronaphthalene
85-43-8	Tetrahydrophthalic anhydride
75-74-1	Tetramethyl lead
110-60-1	Tetramethylenediamine
110-18-9	Tetramethylethylenediamine
108-88-3	Toluene
95-80-7	Toluene-2,4-diamine
584-84-9	Toluene-2,4-diisocyanate
26471-62-5	Toluene diisocyanates (mixture)
1333-07-9	Toluene sulfonamide
104-15-4 ^c	Toluenesulfonic acids
98-59-9	Toluene sulfonyl chloride
26915-12-8	Toluidines
87-61-6,	Trichlorobenzenes
108-70-3	
120-82-1 ^c	
71-55-6	1,1,1-trichloroethane
79-00-5	1,1,2-trichloroethane
79-01-6	Trichloroethylene
75-69-4	Trichlorofluoromethane
96-18-4	1,2,3-trichloropropane
76-13-1	1,1,2-trichloro, 1,2,2-trifluoroethane
121-44-8	Triethylamine
112-27-6	Triethylene glycol
112-49-2	Triethylene glycol dimethyl ether
7756-94-7	Triisobutylene
75-50-3	Trimethylamine
57-13-6	Urea
108-05-4	Vinyl acetate
75-01-4	Vinyl chloride
75-35-4	Vinylidene chloride
25013-15-4	Vinyl toluene
1330-20-7	Xylenes (mixed)
95-47-6	o-xylene
106-42-3	p-xylene
1300-71-6	Xylenol
1300-73-8	Xylidine
(b)	methyl tert-butyl ether
9002-88-4	Polyethylene
(b)	Polypropylene
9009-53-6	Polystyrene

5012 a) CAS numbers refer to the Chemical Abstracts Registry numbers assigned to
5013 specific chemicals, isomers or mixtures of chemicals. Some isomers or mixtures
5014 that are covered by the standards do not have CAS numbers assigned to them.
5015 The standards apply to all of the chemicals listed, whether CAS numbers have
5016 been assigned or not.

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5018 b) No CAS number(s) have been assigned to this chemical, to its isomers, or
5019 mixtures containing these chemicals.

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5021 c) CAS numbers for some of the isomers are listed: the standards apply to all of the
5022 isomers and mixtures even if CAS numbers have not been assigned.

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5024 (Source: Amended at 13 Ill. Reg. 10893, effective June 27, 1989)

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5026 **Section 215.APPENDIX E Reference Methods and Procedures**

5027

5028 Introduction

5029

5030 This Appendix presents the reference methods and procedures required for implementing
5031 Reasonably Available Control Technology (RACT). Methods and procedures are identified for
5032 two types of ACT implementation:

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5034 a) Determination of VOC destruction efficiency for evaluating compliance with the
5035 98 weight percent VOC reduction or 20 ppmv emission limit specified in Sections
5036 215.520 through 215.527; and

5037

5038 b) Determination of offgas flowrate, hourly emissions and stream net heating value
5039 for calculating TRE.

5040

5041 All reference methods identified in this Appendix refer to the reference methods specified at 40
5042 CFR 60, Appendix A, incorporated by reference in Section 215.105.

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5044 VOC DESTRUCTION EFFICIENCY DETERMINATION

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5046 The following reference methods and procedures are required for determining compliance with
5047 the percent destruction efficiency specified in Sections 215.520 through 215.527.

5048

5049 a) Reference Method 1 or 1A for selection of the sampling site. The control device
5050 inlet sampling site for determination of vent stream molar composition or total
5051 organic compound destruction efficiency shall be prior to the inlet of any control
5052 device and after all recovery devices.

5053

5054 b) Reference Methods 2, 2A, 2C or 2D for determination of the volumetric flowrate.

5055

5056 c) Reference Method 3 to measure oxygen concentration of the air dilution
5057 correction. The emission sample shall be corrected to 3 percent oxygen.

5058

5059 d) Reference Method 18 to determine the concentration of total organic compounds
5060 (minus methane and ethane) in the control device outlet and total organic
5061 compound reduction efficiency of the control device.

5062

5063 TRE DETERMINATION

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5065 The following reference methods and procedures are required for determining the offgas
5066 flowrate, hourly emissions, and the net heating value of the gas combusted to calculate the vent
5067 stream TRE.

5068

5069 a) Reference Method 1 or 1A for selection of the sampling site. The sampling site
5070 for the vent stream flowrate and molar composition determination prescribed in
5071 (b) and (c) shall be prior to the inlet of any combustion device, prior to any post-

5072 reactor dilution of the stream with air and prior to any post-reactor introduction of
5073 halogenated compounds into the vent stream. Subject to the preceding restrictions
5074 on the sampling site, it shall be after the final recovery device. If any gas stream
5075 other than the air oxidation vent stream is normally conducted through the
5076 recovery system of the affected facility, such stream shall be rerouted or turned
5077 off while the vent stream is sampled, but shall be routed normally prior to the
5078 measuring of the initial value of the monitored parameters for determining
5079 compliance with the recommended RACT. If the air oxidation vent stream is
5080 normally routed through any equipment which is not a part of the air oxidation
5081 process as defined in 35 Ill. Adm. Code 211.122, such equipment shall be
5082 bypassed by the vent stream while the vent stream is sampled, but shall not be
5083 bypassed during the measurement of the initial value of the monitored parameters
5084 for determining compliance with Subpart V.
5085

5086 b) The molar composition of the vent stream shall be determined using the following
5087 methods:
5088

- 5089 1) Reference Method 18 to measure the concentration of all organics,
5090 including those containing halogens, unless a significant portion of the
5091 compounds of interest are polymeric (high molecular weight), can
5092 polymerize before analysis or have low vapor pressures, in which case
5093 Reference Method 25(a) shall be used.
5094
- 5095 2) ASTM D1946-67 (reapproved 1977), incorporated by reference in Section
5096 215.105, to measure the concentration of carbon monoxide and hydrogen.
5097
- 5098 3) Reference Method 4 to measure the content of water vapor, if necessary.
5099

5100 c) The volumetric flowrate shall be determined using Reference Method 2, 2A, 2C
5101 or 2D, as appropriate.
5102

5103 d) The net heating value of the vent stream shall be calculated using the following
5104 equation:
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$$H = K \sum_{i=1}^n C_i H_i$$

5106
5107 Where:
5108

H = Net heating value of the sample, MJ/scm, where the net enthalpy per mole of offgas is based on combustion at 25 C and 760 mm Hg but the standard temperature for determining the volume corresponding to one mole is 20 C, as in the definition of F (vent stream flowrate) below.

K = Constant, 1.740×10^{-7} (1/ppm) (mole/scm) (MJ/kcal) where

standard temperature for mole/scm is 20 C.

C_i = Concentration of sample component i, reported on a wet basis, in ppm, as measured by Reference Method 18 or ASTM D1946-67 (reapproved 1997), incorporated by reference in Section 215.105.

H_i = Net heat of combustion of sample component i, kcal/mole based on combustion at 25 C and 760 mm Hg. If published values are not available, or cannot be calculated, the heats of combustion of vent stream components are required to be determined using ASTM D2382-76, incorporated by reference in Section 215.105.

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- e) The emission rate of total organic compounds in the process vent stream shall be calculated using the following equation:

$$E = K'F \sum_{i=1}^n C_i M_i$$

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Where:

E = Emission rate of total organic compounds (minus methane and ethane) in the sample in kg/hr.

K' = Constant, 2.494×10^{-6} (1/ppm) (mole/scm) (kj/g) (min/hr), where standard temperature for mole/scm is 20 C.

M_i = Molecular weight of sample component i (g/mole).

F = Vent stream flowrate (scm/min), at a standard temperature of 20 C.

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- f) The total vent stream concentration (by volume) of compounds containing halogens (ppmv, by compound) shall be summed from the individual concentrations of compounds containing halogens which were measured by Reference Method 18.

(Source: Added at 11 Ill. Reg. 20829, effective December 14, 1987)

5124 **Section 215.APPENDIX F Coefficients for the Total Resource Effectiveness Index (TRE)**
 5125 **Equation**

5126
 5127 This Appendix contains values for the total resource effectiveness index (TRE) equation in
 5128 Subpart V.

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 5130 If a flow rate falls exactly on the boundary between the indicated ranges, the operator shall use
 5131 the row in which the flow rate is maximum.

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COEFFICIENTS FOR TRE EQUATION
 FOR CHLORINATED PROCESS VENT STREAMS WITH
 NET HEATING VALUE LESS THAN OR EQUAL TO 3.5 MJ/scm

FLOW RATE (scm/min)		a	b	c	d	e	f
Min.	Max.						
0.0	13.5	48.73	0.	0.404	-0.1632	0.	0.
13.5	700.	42.35	0.624	0.404	-0.1632	0.	0.0245
700.	1400.	84.38	0.678	0.404	-0.1632	0.	0.0346
1400.	2100.	126.41	0.712	0.404	-0.1632	0.	0.0424
2100.	2800.	168.44	0.747	0.404	-0.1632	0.	0.0490
2800.	3500.	210.47	0.758	0.404	-0.1632	0.	0.0548

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COEFFICIENTS FOR TRE EQUATION
 FOR CHLORINATED PROCESS VENT STREAMS WITH
 NET HEATING VALUE LESS THAN 3.5 MJ/scm

FLOW RATE (scm/min)		a	b	c	d	e	f
Min.	Max.						
0.	13.5	47.76	0.	-0.292	0.	0.	0.
13.5	700.	41.58	0.605	-0.292	0.	0.	0.0245
700.	1400.	82.84	0.658	-0.292	0.	0.	0.0346
1400.	2100.	123.10	0.691	-0.292	0.	0.	0.0424
2100.	2800.	165.36	0.715	-0.292	0.	0.	0.0490
2800.	3500.	206.62	0.734	-0.292	0.	0.	0.0548

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COEFFICIENTS FOR TRE EQUATION
FOR NONCHLORINATED PROCESS VENT STREAMS WITH
NET HEATING VALUE LESS THAN OR EQUAL TO 0.48 MJ/scm

FLOW RATE (scm/min)		a	b	c	d	e	f
Min.	Max.						
0.	13.5	19.05	0.	0.113	-0.214	0.	0.
13.5	1350.	16.61	0.239	0.113	-0.214	0.	0.0245
1350.	2700.	32.91	0.260	0.113	-0.214	0.	0.0346
2700.	4050.	49.21	0.273	0.113	-0.214	0.	0.0424

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COEFFICIENTS FOR THE TRE EQUATION FOR NONCHLORINATED PROCESS
VENT STREAMS WITH NET HEATING VALUE GREATER THAN 0.48
AND LESS THAN OR EQUAL TO 1.9 MJ/scm

FLOW RATE (scm/min)		a	b	c	d	e	f
Min.	Max.						
0.	13.5	19.74	0.	0.400	-0.202	0.	0.
13.5	1350.	18.30	0.138	0.400	-0.202	0.	0.0245
1350.	2700.	36.28	0.150	0.400	-0.202	0.	0.0346
2700.	4050.	54.26	0.158	0.400	-0.202	0.	0.0424

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COEFFICIENTS FOR TRE ~~EQUATION~~EQUATION FOR NONCHLORINATED
PROCESS
VENT STREAMS WITH NET HEATING VALUE GREATER THAN 1.9
AND LESS THAN OR EQUAL TO 3.6 MJ/scm

FLOW RATE (scm/min)		a	b	c	d	e	f
Min.	Max.						
0.	13.5	15.24	0.	0.033	0.	0.	0.
13.5	1190.	13.63	0.157	0.033	0.	0.	0.0245
1190.	2380.	26.95	0.171	0.033	0.	0.	0.0346
2380.	3570.	40.27	0.179	0.033	0.	0.	0.0424

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COEFFICIENTS FOR TRE EQUATION
FOR NONCHLORINATED PROCESS VENT STREAMS WITH
NET HEATING VALUE GREATER THAN 3.6 MJ/scm

FLOW RATE (scm/min)		a	b	c	d	e	f
Min.	Max.						
0.	13.5	15.24	0.	0.	0.0090	0.	0.
13.5	1190.	13.63	0.	0.	0.0090	0.0503	0.0245
1190.	2380.	26.95	0.	0.	0.0090	0.0546	0.0346
2380.	3570.	40.27	0.	0.	0.0090	0.0573	0.0424

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(Source: Added at 11 Ill. Reg. 20829, effective December 14, 1987)