

From: [McGill, Richard](#)
To: [Brown, Don](#)
Subject: PC for R18-21 (Part 215)
Date: Monday, April 2, 2018 9:40:35 AM
Attachments: [35-215.docx](#)
[35-215ProposedChanges.docx](#)

Good morning, Mr. Clerk:

Please add this email and two attachments to the R18-21 record as a PC from Jonathan Eastvold of JCAR staff. He indicates that these two attachments **replace** the corresponding documents in what you docketed as PC 4.

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: Tuesday, March 27, 2018 10:36 AM
To: McGill, Richard <Richard.McGill@illinois.gov>
Subject: [External] 35 IAC 215 v2

Here's the revision for Part 215. The list of changes should correctly correspond to yours, though some of the changes necessary for our database are still marked in the text I'm sending. If a correction isn't applicable to your hard copy, please ignore it.

Thanks!

Jonathan

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

Electronic Filing: Received, Clerk's Office 4/2/2018 PC#8

Unauthorized use, disclosure or copying of this communication or any part thereof is strictly prohibited and may be unlawful. If you have received this communication in error, please notify the sender immediately by return e-mail and destroy this communication and all copies thereof, including all attachments. Receipt by an unintended recipient does not waive attorney-client privilege, attorney work product privilege, or any other exemption from disclosure.

Electronic Filing: Received, Clerk's Office 4/2/2018 PC#8

<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. 694	215.121	Add Subpart B header
7. 700	215.121	"70 F" to "70 °F"
8. 714	215.121(b)(1)	"70 F" to "70 °F"
9. 757	215.122(c)	"294.3° K" to "294.3 K"
10. 761	215.123	Delete Subpart B header
11. 884	215.124(b)(3)	"294.3° K" to "294.3 K"
12. 978	215.141	Add subpart C header
13. 1173	215.183(a)(10)	"U.S.C." to "USC"
14. 1218	215.184(a)(1)	"U.S.C." to "USC"
15. 1435	215.206(c)(6)	"exceedence" to "exceedance"
16. 1436	215.206(c)(6)	"exceedence" to "exceedance"
17. 1445	215.206(e)	"flocoating" to "flowcoating"
18. 1699	215.245	Delete Subpart H header
19. 2089	215.403	"Roto- gravure" to "Rotogravure"
20. 2580	215.435(b)	"preformed" to "performed"
21. 2817	215.445(b)	"C.F.R." to "CFR"
22. 3200	215.480(h)(1)(A)	"(A)" to "A)"
23. 3203	215.480(h)(1)(B)	"(B)" to "B)"
24. 3644	215.521, "Flow"	"20 C" to "20 °C"

Electronic Filing: Received, Clerk's Office 4/2/2018 PC#8

- 25. 3727 215.526(a) "Clear Air Act" to "Clean Air Act"
- 26. 3950 215.583 Delete Subpart Y header.
- 27. 4109 215.586(a) "tst" to "test"
- 28. 4109 215.586(a) "the the" to "the"
- 29. 4110 215.586(a) "ot" to "to"
- 30. 4150 215.607 Delete Subpart Z header.
- 31. 4435 215.875 Add Subpart BB header.
- 32. 4692 215.960(d)(1) "Sectin" to "Section"
- 33. 4740 215.Appendix A "**APPENDIX A**" to "**Section 215.APPENDIX A**"
- 34. 4745 215.Appendix B "**APPENDIX B**" to "**Section 215.APPENDIX B**"
- 35. 4749 215.Appendix C "**APPENDIX C**" to "**Section 215.APPENDIX C**"
- 36. 4809 App C, Rule 104(h) "operator on" to "operator of"
- 37. 4810 App C, Rule 104(h) "compoiance" to "compliance"
- 38. 4818 App C, Rule 104(h) "complinance" to "compliance"
- 39. 4847 App C, Rule 205(j),(3) "subsequ3nt" to "subsequent"
- 40. 4848 App C, Rule 205(j),(3) "emissin" to "emission"
- 41. 4876 App C, Rule 205(m), (1)(B) "encrements" to "increments"
- 42. 4892 App C, Rule 205(m), (1)(C) "emissin" to "emission"
- 43. 4896 App C, Rule 205(m), (1)(C)(i) "wquipment" to "equipment"
- 44. 4899 App C, Rule 205(m), (1)(C)(ii) "installagion" to "installation"
- 45. 4911 App C, Rule 205(m), (2)(A) "Complaice" to "Compliance"
- 46. 4934 App C, Rule 205(m), (3)(B) "owenr" to "owner"
- 47. 4936 App C, Rule 205(m), (3)(C) "complinance" to "compliance"
- 48. 4940 App C, Rule 205(m), (3)(D) "owenr" to "owner"
- 49. 4960 App C, Rule 205(m), (5)(A) "Poan" to "Plan"

Electronic Filing: Received, Clerk's Office 4/2/2018 PC#8

50. 4967 App C, Rule 205(m), (5)(B)(i) "indetail" to "in detail"
51. 4994 App C, Rule 205(m), (6)(A)(ii) "occurre dwithout" to "occurred without"
52. 5017 215.Appendix D "**APPENDIX D**" to "**Section 215.APPENDIX D**"
53. 5019 App D, 2nd page Delete redundant entries for Benzil and Benzilic acid
54. 5019 App D, 4th page "Diethylene glycol mononbutyl ether acetate" to "Diethylene glycol monobutyl ether acetate"
55. 5019 App D, 5th page "Ethylene glycolmonoethyl ether acetate" to "Ethylene glycol monoethyl ether acetate"
56. 5019 App D, 5th page "Ethylene glycolmonoethyl_ether" to "Ethylene glycol monoethyl ether"
57. 5019 App D, 5th page "Ethylene glycolmonomethyl ether acetate" to "Ethylene glycol monomethyl ether acetate"
58. 5019 App D, 5th page "Ethylene glycolmonopropyl ether" to "Ethylene glycol monopropyl ether"
59. 5019 App D, 8th page "Propional dehyde" to " Propionaldehyde"
60. 5035 215.Appendix E "**APPENDIX E**" to "**Section 215.APPENDIX E**"
61. 5133 215.Appendix D "**APPENDIX F**" to "**Section 215.APPENDIX F**"

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

12	Section	
13	215.100	Introduction
14	215.101	Clean-up and Disposal Operations
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
23		

24 SUBPART B: ORGANIC EMISSIONS FROM STORAGE
25 AND LOADING OPERATIONS
26

27	Section	
28	215.121	Storage Containers
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
36		

37 SUBPART C: ORGANIC EMISSIONS FROM
38 MISCELLANEOUS EQUIPMENT
39

40	Section	
41	215.141	Separation Operations
42	215.142	Pumps and Compressors
43	215.143	Vapor Blowdown
44	215.144	Safety Relief Valves
45		

46 SUBPART E: SOLVENT CLEANING

47		
48	Section	
49	215.181	Solvent Cleaning in General
50	215.182	Cold Cleaning
51	215.183	Open Top Vapor Degreasing
52	215.184	Conveyorized Degreasing
53	215.185	Compliance Plan

54

55 SUBPART F: COATING OPERATIONS

56

57	Section	
58	215.202	Compliance Schedules
59	215.204	Emission Limitations for Manufacturing Plants
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 (Repealed)
66	215.211	Compliance Dates and Geographical Areas
67	215.212	Compliance Plan (Repealed)
68	215.213	Special Requirements for Compliance Plan (Repealed)
69	215.214	Roadmaster Emissions Limitations (Repealed)
70	215.215	DMI Emissions Limitations (Repealed)

71

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

74

75	Section	
76	215.240	Applicability
77	215.241	External Floating Roofs
78	215.245	Flexographic and Rotogravure Printing
79	215.249	Compliance Dates

80

81 SUBPART I: ADJUSTED RACT EMISSIONS LIMITATIONS

82

83	Section	
84	215.260	Applicability (Repealed)
85	215.261	Petition (Repealed)
86	215.263	Public Hearing (Repealed)
87	215.264	Board Action (Repealed)
88	215.267	Agency Petition (Repealed)

89

90 SUBPART K: USE OF ORGANIC MATERIAL

91

92	Section	
----	---------	--

93 215.301 Use of Organic Material
94 215.302 Alternative Standard
95 215.303 Fuel Combustion Emission Sources
96 215.304 Operations with Compliance Program
97 215.305 Viscose Exemption (Repealed)

98

99

SUBPART N: VEGETABLE OIL PROCESSING

100

101 Section

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](#))

108

109

SUBPART P: PRINTING AND PUBLISHING

110

111 Section

112 215.401 Flexographic and Rotogravure Printing
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

122

123

SUBPART Q: LEAKS FROM SYNTHETIC ORGANIC CHEMICAL AND
POLYMER MANUFACTURING EQUIPMENT

124

125

126 Section

127 215.420 Applicability
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
136 215.429 Compliance Plan ([Repealed](#))
137 215.430 General Requirements
138 215.431 Inspection Program Plan for Leaks

139 215.432 Inspection Program for Leaks
140 215.433 Repairing Leaks
141 215.434 Recordkeeping for Leaks
142 215.435 Report for Leaks
143 215.436 Alternative Program for Leaks
144 215.437 Open-Ended Valves
145 215.438 Standards for Control Devices
146 215.439 Compliance Plan

147

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
157 215.446 Monitoring Program Plan for Leaks
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
164 215.453 Compliance Dates and Geographical Areas

165

166 SUBPART S: RUBBER AND MISCELLANEOUS
167 PLASTIC PRODUCTS

168

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
174 215.465 Compliance Dates and Geographical Areas
175 215.466 Compliance Plan ([Repealed](#))
176 215.467 Testing Methods for Volatile Organic Material Content

177

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

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
- 201 215.514 Recordkeeping Requirements
- 202 215.515 Reporting Requirements
- 203 215.516 Compliance Dates
- 204 215.517 Compliance Plan ([Repealed](#))

205

SUBPART V: AIR OXIDATION PROCESSES

207

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
- 213 215.527 Compliance Date

214

SUBPART W: AGRICULTURE

216

217 Section

- 218 215.541 Pesticide Exception

219

SUBPART X: CONSTRUCTION

221

222 Section

- 223 215.561 Architectural Coatings
- 224 215.562 Paving Operations
- 225 215.563 Cutback Asphalt

226

SUBPART Y: GASOLINE DISTRIBUTION

227

229 Section

- 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

236

237

SUBPART Z: DRY CLEANERS

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

257

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

277
278
279
280
281
282
283
284
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322

SUBPART PP: MISCELLANEOUS FABRICATED PRODUCT
MANUFACTURING PROCESSES

Section
215.920 Applicability
215.923 Permit Conditions
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~~ [D4457](#), 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~~ [CFR](#)
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** 414

415
416
417

a) The following abbreviations are used in this Part:

bbbl	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

418
419
420
421

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

English	Metric
---------	--------

422
423
424

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

425 **Section 215.104 Definitions**

426
427
428
429
430

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.

431
432
433
434
435

"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.

436
437
438
439

"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.

440
441
442
443
444

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

445
446

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

447 **Section 215.105 Incorporations by Reference**

448
449

The following materials are incorporated by reference:

450
451
452
453
454
455
456
457

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

- 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
470
471 9) ASTM D 2382-76
472
473 10) ASTM D 2504-83
474
475 11) ASTM D 2382-83
476
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).

504
505
506
507
508
509
510
511
512
513
514
515
516
517
518
519
520
521
522
523
524
525
526
527
528
529
530
531
532
533
534
535
536
537
538
539
540
541
542
543
544
545
546
547
548
549

- 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:
571
572

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:

587
588
589
590
591
592
593
594
595
596
597
598
599
600
601
602
603
604
605
606
607
608
609
610
611
612
613
614
615
616
617
618
619
620
621
622
623
624
625
626
627
628
629
630
631
632

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:

633
634
635
636
637
638
639
640
641
642
643
644
645
646
647
648
649
650
651
652
653
654
655
656
657
658
659
660
661
662
663
664
665
666
667
668
669
670
671
672
673
674
675
676
677
678

GRAPHIC MATERIAL
See printed copy of IAC for detail

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;

679
680
681
682
683
684
685
686
687
688
689
690
691
692
693
694
695
696
697
698
699
700
701
702
703
704
705
706
707
708
709
710
711
712
713
714
715
716
717
718
719
720
721
722
723
724

- 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 ~~SUBPART B: ORGANIC EMISSIONS FROM STORAGE~~
762 ~~AND LOADING OPERATIONS~~
763

764 **Section 215.123 Petroleum Liquid Storage Tanks**
765

- 766 a) The requirements of subsection (b) below shall not apply to any stationary storage
767 tank:
768

- 769 1) Equipped before January 1, 1979 with one of the vapor loss control
770 devices specified in Section 215.121(b) of this Part, except Section

- 771 215.121(b)(1) of this Part;
772
773 2) With a capacity of less than 151.42 cubic meters;
774
775 3) With a capacity of less than 1,600 cubic meters (422,400 gallons) and used
776 to store produced crude oil and condensate prior to custody transfer;
777
778 4) With a capacity of less than 1,430 cubic meters (378,000 gallons) and used
779 to store produced oil or condensate in crude oil gathering;
780
781 5) Subject to new source performance standards for storage vessels of
782 petroleum liquid, 40 CFR 60, incorporated by reference in Section
783 215.105 of this Part. *The provisions of Section 111 of the Clean Air*
784 *Act...relating to standards of performance for new stationary sources...are*
785 *applicable in this State and are enforceable under [The Environmental*
786 *Protection Act]. (Ill. Rev. Stat., ch. 111½, par. 1009.1(b)).*
787
788 6) In which volatile petroleum liquid is not stored; or
789
790 7) Which is a pressure tank as described in Section 215.121(a) of this Part.
791
792 b) Subject to subsection (a) above no owner or operator of a stationary storage tank
793 shall cause or allow the storage of any volatile ~~petroleum~~ petroleum liquid in the
794 tank unless:
795
796 1) The tank is equipped with one of the vapor loss control devices specified
797 in Section 215.121(b) of this Part;
798
799 2) There are no visible holes, tears or other defects in the seal or any seal
800 fabric or material of any floating roof;
801
802 3) All openings of any floating roof deck, except stub drains, are equipped
803 with covers, lids or seals such that:
804
805 A) The cover, lid or seal is in the closed position at all times except
806 when petroleum liquid is transferred to or from the tank;
807
808 B) Automatic bleeder vents are closed at all times except when the
809 roof is floated off or landed on the roof leg supports; and
810
811 C) Rim vents, if provided, are set to open when the roof is being
812 floated off the roof leg supports or at the manufacturer's
813 recommended setting;
814
815 4) Routine inspections of floating roof seals are conducted through roof
816 hatches once every six months;

817
818
819
820
821
822
823
824
825
826
827
828
829
830
831
832
833
834
835
836
837
838
839
840
841
842
843
844
845
846
847
848
849
850
851
852
853
854
855
856
857
858
859
860
861
862

- 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 petroleum liquid during the normal operation of the tank, or whenever repairs are made as a result of any semi-annual inspection or incidence of roof damage or defect; and
- 6) A record of the results of each inspection conducted under subsection (b)(4) or (b)(5) above is maintained.
- c) Owners and operators of petroleum liquid storage tanks were required to have compliance schedules as summarized in Appendix C of this Part.

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

Section 215.124 External Floating Roofs

- a) In addition to meeting the requirements of Section 215.123(b), no owner or operator of a stationary storage tank equipped with an external floating roof shall cause or allow the storage of any volatile petroleum liquid in the tank unless:
 - 1) The tank has been fitted with a continuous secondary seal extending from the floating roof to the tank wall (rim mounted secondary seal) or any other device which controls volatile organic material emissions with an effectiveness equal to or greater than a rimmounted secondary seal;
 - 2) Each seal closure device meets the following requirements:
 - A) The seal is intact and uniformly in place around the circumference of the floating roof between the floating roof and tank wall; and
 - B) The accumulated area of gaps exceeding 0.32 centimeter (1/8 inch) in width between the secondary seal and the tank wall shall not exceed 21.2 square centimeters per meter of tank diameter (1.0 square inches per foot of tank diameter).
 - 3) Emergency roof drains are provided with slotted membrane fabric covers or equivalent covers across at least 90 percent of the area of the opening;
 - 4) Openings are equipped with projections into the tank which remain below the liquid surface at all times;
 - 5) Inspections are conducted prior to May 1 of each year to insure compliance with subsection (a);
 - 6) The secondary seal gap is measured prior to May 1 of each year;

863
864
865
866
867
868
869
870
871
872
873
874
875
876
877
878
879
880
881
882
883
884
885
886
887
888
889
890
891
892
893
894
895
896
897
898
899
900
901
902
903
904
905
906
907
908

7) Records of the types of volatile petroleum liquid stored, the maximum true vapor pressure of the liquid as stored, the results of the inspections and the results of the secondary seal gap measurements are maintained and available to the Agency, upon verbal or written request, at any reasonable time for a minimum of two years after the date on which the record was made.

b) Subsection (a) does not apply to any stationary storage tank equipped with an external floating roof:

- 1) Exempted under Section 215.123(a)(2) through 215.123(a)(6);
- 2) Of welded construction equipped with a metallic-type shoe seal having a secondary seal from the top of the shoe seal to the tank wall (shoe-mounted secondary seal);
- 3) Of welded construction equipped with a metallic-type shoe seal, a liquid-mounted foam seal, or a liquid-mounted liquid-filled-type seal, or other closure device of equivalent control efficiency approved by the Agency in which a petroleum liquid with a true vapor pressure less than 27.6 kPa (4.0 psia) at 294.3° K (70° F) is stored; or
- 4) Used to store crude oil.

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

Section 215.125 Compliance Dates and Geographical Areas

- a) Except as otherwise stated in subsection (b), every owner or operator of an emission source subject to Sections 215.123 or 215.124 shall comply with its standards and limitations by December 31, 1983.
- 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 215.123 and 215.124 no later than December 31, 1987:

Cook	Macoupin
DuPage	Madison
Kane	Monroe
Lake	Saint Clair

909 (BOARD NOTE: These counties are proposed to be designated as nonattainment
910 by the United States Environmental Protection Agency at 47 Fed. Reg. 31588,
911 July 21, 1982).

912
913 c) Notwithstanding subsection (b), if any county is designated as nonattainment by
914 the United States Environmental Protection Agency (USEPA) at any time
915 subsequent to the effective date of this Section, the owner or operator of an
916 emission source located in that county or any county contiguous to that county
917 who would otherwise be subject to the compliance date in subsection (b) shall
918 comply with the requirements of Sections 215.123 and 215.124 within one year
919 from the date of redesignation but in no case later than December 31, 1987.

920
921 (Source: Adopted at 7 Ill. Reg. 1244, effective January 21, 1983)

922

923 **Section 215.126 Compliance Plan**

924

925 a) The owner or operator of an emission source subject to Section 215.125(a) shall
926 submit to the Agency a compliance plan as required by 35 Ill. Adm. Code
927 201.241, including a project completion schedule where applicable, no later than
928 April 21, 1983.

929

930 b) The owner or operator of an emission source subject to Section 215.125(b) shall
931 submit to the Agency a compliance plan, including a project completion schedule
932 where applicable, no later than December 31, 1986.

933

934 c) The owner or operator of an emission source subject to Section 215.125(c) shall
935 submit a compliance plan, including a project completion schedule within 90 days
936 after the date of redesignation, but in no case later than December 31, 1986.

937

938 d) Unless the submitted compliance plan or schedule is disapproved by the Agency,
939 the owner or operator of a facility or emission source subject to the rules specified
940 in subsections (a), (b) or (c) may operate the emission source according to the
941 plan and schedule as submitted.

942

943 e) The plan and schedule shall meet the requirements of 35 Ill. Adm. Code 201.241
944 including specific interim dates as required in 35 Ill. Adm. Code 201.242.

945

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

947

948 **Section 215.127 Emissions Testing**

949

950 a) Any tests of organic material emissions, including tests conducted to determine
951 control equipment efficiency, shall be conducted in accordance with the methods
952 and procedures specified in Section 215.102.

953

954 b) Upon a reasonable request by the Agency, the owner or operator of an organic

955 material emission source required to comply with this Subpart shall conduct
956 emissions testing, at such person's own expense, to demonstrate compliance.

957
958 c) A person planning to conduct an organic material emission test to demonstrate
959 compliance with this Subpart shall notify the Agency of that intent not less than
960 30 days before the planned initiation of the tests so the Agency may observe the
961 test.

962
963 (Source: Added at 14 Ill. Reg. 9173, effective May 23, 1990)
964

965 **Section 215.128 Measurement of Seal Gaps**
966

967 a) Any measurements of secondary seal gaps shall be conducted in accordance with
968 the methods and procedures specified in 40 CFR 60, Subpart Kb incorporated by
969 reference in Section 215.105.

970
971 b) A person planning to conduct a measurement of seal gaps to demonstrate
972 compliance with this Subpart shall notify the Agency of that intent not less than
973 30 days before the planned performance of the tests so the Agency may observe
974 the test.

975
976 (Source: Added at 14 Ill. Reg. 9173, effective May 23, 1990)
977

978 SUBPART C: ORGANIC EMISSIONS FROM
979 MISCELLANEOUS EQUIPMENT
980

981 **Section 215.141 Separation Operations**
982

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

991
992 b) Subsection (a) shall not apply to water and crude oil separation in the production
993 of Illinois crude oil, if the vapor pressure of such crude oil is less than 34.5 kPa (5
994 psia).

995
996 (Source: Amended at 12 Ill. Reg. 815, effective December 24, 1987)
997

998 **Section 215.142 Pumps and Compressors**
999

1000 No person shall cause or allow the discharge of more than 32.8 ml (2 cu in) of volatile organic

1001 liquid with vapor pressure of 17.24 kPa (2.5 psia) or greater at 294.3 K (70 F) into the
1002 atmosphere from any pump or compressor in any 15 minute period at standard conditions.

1003

1004 (Source: Amended at 12 Ill. Reg. 815, effective December 24, 1987)

1005

1006 **Section 215.143 Vapor Blowdown**

1007

1008 No person shall cause or allow the emission of organic material into the atmosphere from any
1009 vapor blowdown system or any safety relief valve, except such safety relief valves not capable of
1010 causing an excessive release, unless such emission is controlled:

1011

1012 a) To 10 ppm equivalent methane (molecular weight 16.0) or less; or,

1013

1014 b) By combustion in a smokeless flare; or,

1015

1016 c) By other air pollution control equipment approved by the Agency according to the
1017 provisions of 35 Ill. Adm. Code 201.

1018

1019 **Section 215.144 Safety Relief Valves**

1020

1021 Section 215.143 shall not apply to any set of unregulated safety relief valves capable of causing
1022 excessive releases, provided the owner or operator thereof, by October 1, 1972, provides the
1023 Agency with the following:

1024

1025 a) A historical record of each such set (or, if such records are unavailable, of similar
1026 sets which, by virtue of operation under similar circumstances, may reasonably be
1027 presumed to have the same or greater frequency of excessive releases) for a three-
1028 year period immediately preceding October 1, 1972, indicating:

1029

1030 1) Dates on which excessive releases occurred from each such set; and,

1031

1032 2) Duration in minutes of each such excessive release; and,

1033

1034 3) Quantities (in pounds) of mercaptans and/or hydrogen sulfide emitted into
1035 the atmosphere during each such excessive release.

1036

1037 b) Proof, using such three-year historical records, that no excessive release is likely
1038 to occur from any such set either alone or in combination with such excessive
1039 releases from other sets owned or operated by the same person and located within
1040 a ten-mile radius from the center point of any such set, more frequently than 3
1041 times in any 12 month period; and,

1042

1043 c) Accurate maintenance records pursuant to the requirements of subsection (a); and,

1044

1045 d) Proof, at three-year intervals, using such three-year historical records, that such
1046 set conforms to the requirements of subsection (c).

1047
1048
1049
1050
1051
1052
1053
1054
1055
1056
1057
1058
1059
1060
1061
1062
1063
1064
1065
1066
1067
1068
1069
1070
1071
1072
1073
1074
1075
1076
1077
1078
1079
1080
1081
1082
1083
1084
1085
1086
1087
1088
1089
1090
1091
1092

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

SUBPART E: SOLVENT CLEANING

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

- 1093 psi) measured at 38° C (100° F);
1094
1095 B) The solvent is agitated; or
1096
1097 C) The solvent is heated above ambient room temperature;
1098
1099 2) The degreaser is equipped with a facility for draining cleaned parts. The
1100 drainage facility shall be constructed so that parts are enclosed under the
1101 cover while draining unless:
1102
1103 A) The solvent vapor pressure is less than 4.3 kPa (32 mmHg or 0.6
1104 psi) measured at 38° C (100° F); or
1105
1106 B) An internal drainage facility cannot be fitted into the cleaning
1107 system, in which case the drainage facility may be external.
1108
1109 3) The degreaser is equipped with one of the following control devices if the
1110 vapor pressure of the solvent is greater than 4.3 kPa (32 mmHg or 0.6 psi)
1111 measured at 38°C (100¼ F) or if the solvent is heated above 50° C (120°
1112 F) or its boiling point:
1113
1114 A) A freeboard height of 7/10 of the inside width of the tank or 91 cm
1115 (36 in), whichever is less; or
1116
1117 B) Any other equipment or system of equivalent emission control as
1118 approved by the Agency. Such a system may include a water
1119 cover, refrigerated chiller or carbon adsorber.
1120
1121 4) A permanent conspicuous label summarizing the operating procedure is
1122 affixed to the degreaser; and
1123
1124 5) If a solvent spray is used, the degreaser is equipped with a solid fluid
1125 stream spray, rather than a fine, atomized or shower spray.
1126

1127 **Section 215.183 Open Top Vapor Degreasing**
1128

- 1129 a) Operating Requirements: No person shall operate an open top vapor degreaser
1130 unless:
1131
1132 1) The cover of the degreaser is closed when workloads are not being
1133 processed through the degreaser;
1134
1135 2) Solvent carryout emissions are minimized by:
1136
1137 A) Racking parts to allow complete drainage;
1138

- 1139 B) Moving parts in and out of the degreaser at less than 3.3 m/min (11
1140 ft/min);
1141
1142 C) Holding the parts in the vapor zone until condensation ceases;
1143
1144 D) Tipping out any pools of solvent on the cleaned parts before
1145 removal from the vapor zone; and,
1146
1147 E) Allowing parts to dry within the degreaser until visually dry.
1148
- 1149 3) Porous or absorbent materials, such as cloth, leather, wood or rope are not
1150 degreased;
1151
1152 4) Less than half of the degreaser's open top area is occupied with a
1153 workload;
1154
1155 5) The degreaser is not loaded to the point where the vapor level would drop
1156 more than 10 cm (4 in) when the workload is removed from the vapor
1157 zone;
1158
1159 6) Spraying is done below the vapor level only;
1160
1161 7) Solvent leaks are repaired immediately;
1162
1163 8) Waste solvent is stored in covered containers only and not disposed of in
1164 such a manner that more than 20% of the waste solvent (by weight) is
1165 allowed to evaporate into the atmosphere;
1166
1167 9) Water is not visually detectable in solvent exiting from the water
1168 separator; and
1169
1170 10) Exhaust ventilation exceeding 20 cubic meters per minute per square
1171 meter (65 cubic feet per minute per square foot) of degreaser open area is
1172 not used, unless necessary to meet the requirements of the Occupational
1173 Safety and Health Act (29 [USC U.S.C.](#) Section 651 et seq.)
1174
- 1175 b) Equipment Requirements: No person shall operate an open top vapor degreaser
1176 unless:
1177
- 1178 1) The degreaser is equipped with a cover designed to open and close easily
1179 without disturbing the vapor zone;
1180
1181 2) The degreaser is equipped with the following switches:
1182
- 1183 A) A device which shuts off the sump heat source if the amount of
1184 condenser coolant is not sufficient to maintain the designed vapor

- 1185 level; and
1186
1187 B) A device which shuts off the spray pump if the vapor level drops
1188 more than 10 cm (4 in) below the bottom condenser coil; and
1189
1190 C) A device which shuts off the sump heat source when the vapor
1191 level exceeds the design level.
1192
1193 3) A permanent conspicuous label summarizing the operating procedure is
1194 affixed to the degreaser;
1195
1196 4) The degreaser is equipped with one of the following devices:
1197
1198 A) A freeboard height of 3/4 of the inside width of the degreaser tank
1199 or 91 cm (36 in), whichever is less; and if the degreaser opening is
1200 greater than 1 square meter (10.8 square feet), a powered or
1201 mechanically assisted cover; or
1202
1203 B) Any other equipment or system of equivalent emission control as
1204 approved by the Agency. Such equipment or system may include a
1205 refrigerated chiller, an enclosed design or a carbon adsorption
1206 system.
1207

1208 (Source: Amended at 3 Ill. Reg. 30, p. 124, effective July 28, 1979)
1209

1210 **Section 215.184 ConveyORIZED Degreasing**

- 1211
1212 a) Operating Requirements: No person shall operate a conveyORIZED degreaser
1213 unless:
1214
1215 1) Exhaust ventilation exceeding 20 cubic meters per minute per square
1216 meter (65 cubic feet per minute per square foot) of area of loading and
1217 unloading opening is not used, unless necessary to meet the requirements
1218 of the Occupational Safety and Health Act (29 [U.S.C. USC](#) Section 651 et
1219 seq.)
1220
1221 2) Solvent carryout emissions are minimized by:
1222
1223 A) Racking parts for best drainage; and
1224
1225 B) Maintaining the vertical conveyor speed at less than 3.3 m/min (11
1226 ft/min);
1227
1228 3) Waste solvent is stored in covered containers only and not disposed of in
1229 such a manner that more than 20% of the waste solvent (by weight) is
1230 allowed to evaporate into the atmosphere;

- 1231
1232
1233
1234
1235
1236
1237
1238
1239
1240
1241
1242
1243
1244
1245
1246
1247
1248
1249
1250
1251
1252
1253
1254
1255
1256
1257
1258
1259
1260
1261
1262
1263
1264
1265
1266
1267
1268
1269
1270
1271
1272
1273
1274
1275
1276
- 4) Solvent leaks are repaired immediately;
 - 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

1277
1278 B) Any other equipment or system of equivalent emission control as
1279 approved by the Agency. Such equipment or system may include a
1280 refrigerated chiller.

1281
1282 (Source: Amended at 3 Ill. Reg. 30, p. 124, effective July 28, 1979)

1283
1284 **Section 215.185 Compliance Plan**

1285
1286 ~~a) Solvent cleaning and degreasing were subject to certain compliance dates which~~
1287 ~~are summarized in Appendix C. Compliance programs were required under 35~~
1288 ~~Ill. Adm. Code 201, Subpart H.~~

1289
1290 ~~b) Cold cleaning degreasers were not required to submit a compliance plan or project~~
1291 ~~completion schedule under 35 Ill. Adm. Code 201, Subpart H.~~

1292
1293 (Source: Amended at 3 Ill. Reg. 30, p. 124, effective July 28, 1979)

1294
1295 **SUBPART F: COATING OPERATIONS**

1296
1297 **Section 215.202 Compliance Schedules**

1298
1299 ~~Owners or operators of coating lines were required to take certain actions to achieve compliance~~
1300 ~~which are set forth in Appendix C.~~

1301
1302 (Source: Amended at 3 Ill. Reg. 30, p. 124, effective July 28, 1979)

1303
1304 **Section 215.204 Emission Limitations for Manufacturing Plants**

1305
1306 No owner or operator of a coating line shall cause or allow the emission of volatile organic
1307 material to exceed the following limitations on coating materials, excluding water and any
1308 compounds which are specifically exempted from the definition of volatile organic material
1309 pursuant to this Part, delivered to the coating applicator:

1310 a) Automobile or Light Duty Truck Manufacturing Plants

1311	1)	In Boone County	<u>kg/l</u>	<u>lb/gal</u>
1312		Prime coat	0.14	(1.2)
		Prime surfacer coat	0.34	(2.8)
		Top coat	0.34	(2.8)

1313
1314 (BOARD NOTE: The top coat limitation shall not apply if by December
1315 31, 1984 a limitation of 0.43 kg/l (3.6 lb/gal) is achieved and the top coat
1316 is applied with a transfer efficiency of not less than 55 percent and by
1317 December 31, 1986, the top coat is applied with a transfer efficiency of
1318 not less than 65 percent)

Electronic Filing: Received, Clerk's Office 4/2/2018 PC#8

1319		Final repair coat	0.58	(4.8)
1320	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)
1321	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		
1322		(BOARD NOTE: These limitations shall not apply to		equipment
1323		used for both printing and paper coating)		
1324				
1325	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)
1326		(BOARD NOTE: The limitation shall not apply to the use of quick-drying		
1327		lacquers for repair of scratches and nicks that occur during assembly, provided		
1328		that the volume of coating does not exceed 0.95 liters (1 quart) in any one eight-		
1329		hour period)		
1330				
1331				

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

		<u>kg/l</u>	<u>lb/gal</u>
k)	Heavy Off-highway Vehicle Products		
	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)

1332
1333
1334
1335

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

1336
1337
1338
1339
1340
1341
1342
1343
1344
1345
1346
1347
1348
1349
1350
1351
1352
1353
1354
1355
1356
1357
1358
1359
1360
1361
1362
1363

- 1364 the coating line, and
1365
1366 2) Oxidation to carbon dioxide and water of 90% of the nonmethane volatile
1367 organic material (measured at total combustible carbon) which enters the
1368 afterburner.
1369
1370 c) The system used to control such emissions is demonstrated to have control
1371 efficiency equivalent to or greater than that provided under the applicable
1372 provision of Section 215.204 or subsection (a) or (b).
1373

1374 (Source: Amended at 22 Ill. Reg. 11427, effective June 19, 1998)
1375

1376 **Section 215.206 Exemptions from Emission Limitations**
1377

- 1378 a) The limitations of this Subpart shall not apply to:
1379
1380 1) Coating plants in which emissions of volatile organic material as limited
1381 by the operating permit will not exceed 22.7 Mg/year (25 T/year), in the
1382 absence of air pollution control equipment; or
1383
1384 2) Coating plants in which the total coating usage does not exceed 9,463 l/yr
1385 (2,500 gal/yr); or
1386
1387 3) Sources used exclusively for chemical or physical analysis or
1388 determination of product quality and commercial acceptance provided
1389 that:
1390
1391 A) The operation of the source is not an integral part of the production
1392 process;
1393
1394 B) The emissions from the source do not exceed 363 kg (800 lbs) in
1395 any calendar month; and
1396
1397 C) The exemption is approved in writing by the Agency.
1398
1399 b) The limitations of this Subpart shall not apply to touch-up and repair coatings
1400 used by a coating source described in Section 215.204(b), (d), (f), (g), (i), and (j)
1401 of this Subpart; provided that the source-wide volume of such coatings does not
1402 exceed 0.95 l (1 quart) per eight-hour period or exceed 209 l/yr (55 gal/yr) for
1403 any rolling twelve-month period. Recordkeeping and reporting for touch-up and
1404 repair coatings shall be consistent with subsection (c) of this Section.
1405
1406 c) The owner or operator of a coating line or a group of coating lines using touch-up
1407 and repair coatings that are exempted from the limitations of Sections 215.204(b),
1408 (d), (f), (g), (i), and (j) of this Subpart because of the provisions of subsection (b)
1409 of this Section shall:

- 1410
1411
1412
1413
1414
1415
1416
1417
1418
1419
1420
1421
1422
1423
1424
1425
1426
1427
1428
1429
1430
1431
1432
1433
1434
1435
1436
1437
1438
1439
1440
1441
1442
1443
1444
1445
1446
1447
- 1) Collect and record the name, identification number, and volume of each touch-up and repair coating, as applied on each coating line, per eight-hour period and per month;
 - 2) Perform calculations on a daily basis, and maintain at the source, records of such calculations of the combined volume of touch-up and repair coatings used source-wide for each eight-hour period;
 - 3) Perform calculations on a monthly basis, and maintain at the source, records of such calculations of the combined volume of touch-up and repair coatings used source-wide for the month and the rolling twelve-month period;
 - 4) Prepare and maintain at the source an annual summary of the information required to be compiled pursuant to subsection (b) of this Section on or before January 31 of the following year;
 - 5) Maintain at the source for a minimum of three years all records required to be kept under this subsection (c) and make such records available to the Agency upon request; and
 - 6) Notify the Agency in writing if the use of touch-up and repair coatings at the source ever exceeds a volume of 0.95 l (1 quart) per eight-hour period or exceeds 209 l/yr (55 gal/yr) for any rolling twelve-month period within 30 days after such ~~exceedence~~exceedance. Such notification shall include a copy of any records of such ~~exceedence~~exceedance.
- d) "Touch-up and repair coatings" means, for purposes of this Section, any coating used to cover minor scratches and nicks that occur during manufacturing and assembly processes.
- e) Notwithstanding the limitations of Section 215.204(k)(2), the John Deere Harvester-Moline Works of Deere & Company, Moline, Illinois, shall not cause or permit the emission of volatile organic material from its existing green and yellow ~~flowcoating floecoating~~ operations to exceed a weekly average of 6.2 lb/gal.

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

1450 **Section 215.207 Compliance by Aggregation of Emission Units**

- 1451
1452
1453
1454
1455
- a) 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 volatile organic material under this Section shall be approved by the Agency in accordance with 35 Ill. Adm. 201. Emissions of

1456 volatile organic material from sources subject to Section 215.204 are allowable,
 1457 notwithstanding the limitations in Section 215.204, if the combined actual
 1458 emissions from selected coating lines at the coating plant, but not including
 1459 coating lines or other emission sources constructed or modified after July 1, 1979,
 1460 is less than or equal to the combined allowable emissions as determined by the
 1461 following equations:
 1462

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

1463

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

1464

1465 b) A_i shall be determined by the following formula:
 1466

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

1467

1468 c) As used in subsection (a) and (b), symbols mean the following:
 1469

- 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 l/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).

1470

1471 d) The owner or operator of the coating plant shall maintain records of the density of
 1472 the volatile organic material in each coating, the quantity and volatile organic
 1473 material and solids content of each coating applied and the line to which coating
 1474 is applied, in such a manner so as to demonstrate continuing compliance with the

1475 combined allowable emissions.

1476

1477 e) Except for emission units subject to Section 215.301 or 215.302, credits from
1478 emission units at the coating plant that are subject to this Part, other than coating
1479 lines, may be given to the extent that emissions are reduced from the allowable
1480 emission limits for such emission units contained in either this Part or any
1481 existing operating permit, whichever limit is less.

1482

1483 (Source: Amended at 22 Ill. Reg. 11427, effective June 19, 1998)

1484

1485 **Section 215.208 Testing Methods for Volatile Organic Material Content**

1486

1487 a) The VOM content of coatings shall be determined by Method 24, 40 CFR Part 60,
1488 Appendix A, incorporated by reference in Section 215.105 except for glues and
1489 adhesive coatings, two component reactive coatings forming volatile reaction
1490 products, coatings requiring energy other than heat to initiate curing, and coatings
1491 requiring high temperature catalysis for curing, providing the person proposing
1492 testing of the material submits to the Agency proof that the Method 24 results
1493 would not be representative and proof that a proposed alternative test method
1494 gives representative, accurate test results. For printing inks, the volatile organic
1495 material content shall be determined by Method 24A, 40 CFR Part 60, Appendix
1496 A incorporated by reference in Section 215.105. Any alternate test method must
1497 be approved by the Agency which shall consider data comparing the performance
1498 of the proposed alternative to the performance of the approved test method(s). If
1499 the Agency determines that such data demonstrates that the proposed alternative
1500 will achieve results equivalent to the approved test method(s), the Agency shall
1501 approve the proposed alternative.

1502

1503 b) Transfer efficiency shall be determined by a method, procedure or standard
1504 approved by the USEPA, under the applicable new source performance standard
1505 or until such time as USEPA has approved and published such a method,
1506 procedure or standard, by any appropriate method, procedure or standard
1507 approved by the Agency.

1508

1509 (Source: Amended at 14 Ill. Reg. 9173, effective May 23, 1990)

1510

1511 **Section 215.209 Exemption from General Rule on Use of Organic Material**

1512

1513 No coating line subject to the limitations of Section 215.204 is required to meet Sections 215.301
1514 or 215.302 after the date by which the coating line is required to meet Section 215.204.

1515

1516 (Source: Amended at 3 Ill. Reg. 30, p. 124, effective July 28, 1979)

1517

1518 **Section 215.210 Alternative Compliance Schedule**

1519

1520 [The owner or operator of coating lines subject to Section 215.204\(d\)\(2\) may in lieu of](#)

1521 ~~compliance with Section 215.211 demonstrate compliance through the use of a low solvent~~
1522 ~~coating technology by taking the following actions:~~

- 1523
- 1524 a) ~~Submit to the Agency a compliance plan, including a project completion~~
1525 ~~schedule, that meets the requirements of Section 201.241 on or before August 19,~~
1526 ~~1983; and~~
- 1527
- 1528 b) ~~Meet the following increments of progress:~~
- 1529
- 1530 1) ~~Submit to the Agency by July 1, 1984 and every six months thereafter a~~
1531 ~~report describing in detail the progress made in the development,~~
1532 ~~application testing, product quality, customer acceptance and United~~
1533 ~~States Food and Drug Administration or government agency approval of~~
1534 ~~the low solvent coating technology;~~
- 1535
- 1536 2) ~~Initiate process modifications to allow the use of low solvent coatings as~~
1537 ~~soon as coatings meeting Board requirements become commercially~~
1538 ~~available for production use; and~~
- 1539
- 1540 3) ~~Achieve final compliance as expeditiously as possible but no later than~~
1541 ~~December 31, 1986.~~

1542

1543 (Source: Amended at 7 Ill. Reg. 1244, effective January 21, 1983)

1544

1545 **Section 215.211 Compliance Dates and Geographical Areas**

- 1546
- 1547 a) Except as otherwise stated in subsection (b), every owner or operator of an
1548 emission unit subject to Section 215.204(j), (k), (l), or (m) shall comply with
1549 those subsections in accordance with the following dates:
- 1550
- 1551 1) For Section 215.204(j) and (k)(2) Extreme performance prime coat and
1552 Final repair coat - air dried, by December 31, 1983.
- 1553
- 1554 2) For Section 215.204(k)(1) and (m), by December 31, 1987.
- 1555
- 1556 3) ~~For Section 215.204(k)(2) Extreme performance top coat - air dried, in~~
1557 ~~accordance with Section 215.210.~~
- 1558
- 1559 4) ~~For Section 215.204(l), by December 31, 1985.~~
- 1560
- 1561 b) If an emission unit is not located in one of the nonattainment counties or counties
1562 contiguous to nonattainment counties listed below, the owner or operator of the
1563 emission unit shall comply with the requirements of Section 215.204(j), (k) or (l)
1564 no later than December 31, 1987:
- 1565

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

1566
1567
1568
1569
1570
1571
1572
1573
1574
1575
1576
1577
1578
1579
1580
1581
1582
1583
1584
1585
1586
1587
1588
1589
1590
1591
1592
1593
1594
1595
1596
1597
1598

(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~~

1599 ~~be required to submit a compliance plan if redesignation occurs after December~~
1600 ~~31, 1986.~~

1601
1602 ~~f) — The plan and schedule shall meet the requirements of 35 Ill. Adm. Code 201.~~
1603

1604 (Source: Amended at 22 Ill. Reg. 11427, effective June 19, 1998)

1605
1606 **Section 215.213 Special Requirements for Compliance Plan**
1607

1608 ~~For sources subject to Sections 215.204 through 215.209, an approvable compliance plan shall~~
1609 ~~include:~~

1610 ~~a) — A complete description of each coating line which is subject to an emission~~
1611 ~~limitation in Sections 215.204 through 215.209;~~

1612
1613 ~~b) — Quantification of the allowable emissions from the coating plant determined~~
1614 ~~under Section 215.207 where applicable; and,~~

1615
1616 ~~c) — A description of the procedures and methods used to determine the emissions of~~
1617 ~~volatile organic material including a method of inventory, record keeping and~~
1618 ~~emission calculation or measurement which will be used to demonstrate~~
1619 ~~compliance with the allowable plantwide emission limitation.~~
1620

1621
1622 (Source: Adopted at 3 Ill. Reg. 30, p. 124, effective July 28, 1979)

1623
1624 **Section 215.214 Roadmaster Emissions Limitations (Repealed)**
1625

1626 (Source: Repealed at 22 Ill. Reg. 11427, effective June 19, 1998)

1627
1628 **Section 215.215 DMI Emissions Limitations**
1629

1630 ~~Notwithstanding the limitation of Section 215.204(j)(3), the DMI, Inc., Goodfield, Illinois plant~~
1631 ~~shall not cause or permit the emission of volatile organic material from its existing dip tank and~~
1632 ~~bake oven as part of the paint deck operations, to exceed a daily average of 4.2 lb/gal in the dip~~
1633 ~~top coat application tank, and a 30-day rolling average of 61 lb/day for the dip tank make-up~~
1634 ~~solvent addition; DMI, Inc. shall fulfill all of the following conditions:~~

1635
1636 ~~(a) — DMI, Inc. shall contact at least three (3) paint vendors each year in a continuing~~
1637 ~~search for a compliant coating that it can successfully use in its existing paint~~
1638 ~~deck operations, including any paint vendors suggested by the Agency in a~~
1639 ~~writing delivered to DMI, Inc. by certified mail;~~

1640
1641 ~~(b) — If any vendor provides DMI, Inc. with laboratory test results which demonstrate~~
1642 ~~that DMI, Inc. may be able to use the vendor's paint in its existing paint deck~~
1643 ~~operations as a substitute for the existing paint, DMI, Inc. will conduct production~~
1644 ~~tests of that paint;~~

1645
1646 ~~(c) — DMI, Inc. will submit a report to the Agency by March 1 of each year that~~
1647 ~~includes a summary of its efforts during the preceding calendar year, as those~~
1648 ~~efforts relate to DMI, Inc.'s compliance with the foregoing conditions contained in~~
1649 ~~subsections (a) and (b), above;~~

1650
1651 ~~(d) — If DMI, Inc. locates a compliant paint that it can successfully use in its existing~~
1652 ~~paint deck operations, and the net annual expense of using the compliant paint is~~
1653 ~~not more than ten percent (10%) greater than the then current net annual expense~~
1654 ~~incurred in the existing painting process, DMI, Inc. shall convert its present paint~~
1655 ~~deck operations to the use of that paint within 180 days after the final successful~~
1656 ~~testing of such a paint; and~~

1657
1658 ~~(e) — This Section shall expire within 180 days after final successful testing of a~~
1659 ~~compliant paint in accordance with subsection (d) above, or on January 1, 2000,~~
1660 ~~whichever is earlier, at which time DMI, Inc. shall comply with the provisions~~
1661 ~~that generally apply to VOM emissions.~~

1662
1663 (Source: Added at 16 Ill. Reg. 3132, effective February 18, 1992)

1664
1665 SUBPART H: SPECIAL LIMITATIONS FOR SOURCES IN MAJOR URBANIZED AREAS
1666 WHICH
1667 ARE NONATTAINMENT FOR OZONE
1668

1669 **Section 215.240 Applicability**

1670
1671 Notwithstanding any other limitations or exceptions in this Part 215, the special requirements of
1672 this Subpart shall apply to the affected sources in the following counties; Cook, DuPage, Kane,
1673 Lake, Macoupin, Madison, McHenry, Monroe, St. Clair, and Will.

1674
1675 (Source: Added in R85-21(A) at 11 Ill. Reg. 11770, effective June 29, 1987)

1676
1677 **Section 215.241 External Floating Roofs**

1678
1679 The requirements of subsection 215.124(a) shall not apply to any stationary storage tank
1680 equipped with an external floating roof:

- 1681
1682 a) Exempted under Section 215.123(a)(2) through (a)(6);
1683
1684 b) Of welded construction equipped with a metallic-type shoe seal having a
1685 secondary seal from the top of the shoe seal to the tank wall (shoe-mounted
1686 secondary seal);
1687
1688 c) Of welded construction equipped with a metallic type shoe seal, a liquid-mounted
1689 foam seal, a liquid-mounted liquid-filled-type seal, or other closure device of
1690 equivalent control efficiency approved by the Agency in which a petroleum liquid

1691 with a true vapor pressure less than 27.6 kPa (4.0 psia) at 294.3° K (70° F) is
1692 stored; or

1693
1694 d) Used to store crude oil with a pour point of 50° F or higher as determined by
1695 ASTM Standard D97-66 incorporated by reference in Section 215.105.

1696
1697 (Source: Amended at 14 Ill. Reg. 9173, effective May 23, 1990)

1698
1699 ~~SUBPART H: SPECIAL LIMITATIONS FOR SOURCES IN MAJOR URBANIZED AREAS~~
1700 ~~WHICH ARE NONATTAINMENT FOR OZONE~~

1701
1702 **Section 215.245 Flexographic and Rotogravure Printing**

1703
1704 a) The limitations of Subpart P shall apply unless the facility's aggregate
1705 uncontrolled rotogravure and/or flexographic printing press emissions of volatile
1706 organic material are limited by operating permit conditions to 90.7 Mg (100 tons)
1707 per year or less in the absence of air pollution control equipment or whose actual
1708 emissions in the absence of air pollution control equipment would be less than or
1709 equal to 90.7 Mg (100 tons) per year when averaged over the preceding three
1710 calendar years.

1711
1712 b) If an owner or operator of a packaging rotogravure printing press proposes to
1713 comply with the limitations of Section 215.401 pursuant to subsection (d) of that
1714 Section, then the combined capture and control system must provide an overall
1715 reduction in volatile organic material emissions of at least 65 percent.

1716
1717 (Source: Added at 11 Ill. Reg. 19117, effective November 9, 1987)

1718
1719 **Section 215.249 Compliance Dates**

1720
1721 Source subject to this Subpart H shall comply with the applicable limitations within one year of
1722 the effective date of the subpart or by December 31, 1987, whichever is sooner.

1723
1724 (Source: Added in R85-21(A) at 11 Ill. Reg. 11770, effective June 29, 1987)

1725
1726 **SUBPART I: ADJUSTED REACT EMISSIONS LIMITATIONS**

1727
1728 **Section 215.260 Applicability**

1729
1730 ~~Owners and operators of emission sources subject to Subparts PP, QQ, or RR may petition the~~
1731 ~~Illinois Pollution Control Board for an Adjusted Reasonably Available Control Technology~~
1732 ~~(RACT) Emissions Limitation for such emission sources. Owners and operators of emissions~~
1733 ~~sources which are in existence on the effective date of this Subpart shall submit to the Illinois~~
1734 ~~Pollution Control Board a Notice of Intent to Petition for an Adjusted RACT Emissions~~
1735 ~~Limitation within 60 days after the effective date of this Subpart. Petitions for an Adjusted~~
1736 ~~RACT Emissions Limitation shall be filed within 120 days after the effective date of this Subpart~~

1737 ~~or at the time a construction permit is applied for from the Agency for the emission source, or 60~~
1738 ~~days after the time an emission source meets the applicability criteria set forth in such Subparts.~~
1739 ~~For the purposes of this Subpart, uncontrolled volatile organic material emissions are the~~
1740 ~~emissions of volatile organic material which would result if no air pollution control equipment~~
1741 ~~were used.~~

1742
1743 (Source: Added at 12 Ill. Reg. 7311, effective April 8, 1988)

1744
1745 **Section 215.261 Petition**

1746
1747 ~~A petition for an Adjusted RACT Emission Limitation shall contain:~~

- 1748
1749 ~~a) — A specific proposal of, and support for, an Adjusted RACT Emissions Limitation~~
1750 ~~which would apply to the emission source that is the subject of the petition as well~~
1751 ~~as a showing at a hearing held pursuant to Section 28.1 of the Illinois~~
1752 ~~Environmental Protection Act (Act) that the application of the applicable limits of~~
1753 ~~Section 215.926(a)(1) and (2), 215.946(a)(1) or 215.966(a)(1) would be~~
1754 ~~technically infeasible or economically unreasonable for that emission source.~~
- 1755
1756 ~~b) — Information on the technical feasibility of reducing emissions of volatile organic~~
1757 ~~material from the emission source including, but not limited to:~~
- 1758
1759 ~~1) — A complete description of the operations of the emission source.~~
- 1760
1761 ~~2) — A discussion of all available compliance strategies for achieving the~~
1762 ~~emissions reduction prescribed by the applicable section and the technical~~
1763 ~~feasibility of each compliance strategy.~~
- 1764
1765 ~~3) — Comparisons of the nature and quantity of uncontrolled emissions to:~~
- 1766
1767 ~~A) — Emissions reductions which would be achieved pursuant to the~~
1768 ~~applicable Section for each compliance strategy listed in Section~~
1769 ~~215.261(b)(2); and~~
- 1770
1771 ~~B) — Emissions reduction which would be achieved pursuant to the~~
1772 ~~proposed Adjusted RACT Emissions Limitation.~~
- 1773
1774 ~~4) — The basis for determining that the proposed method of emissions reduction~~
1775 ~~is RACT for the that emission source and all information supporting that~~
1776 ~~determination.~~
- 1777
1778 ~~e) — Information on the economic reasonableness of reducing emissions of volatile~~
1779 ~~organic material from the emission source including, but not limited to:~~
- 1780
1781 ~~1) — A comparison of the relative costs of achieving the emissions reduction~~
1782 ~~pursuant to Section 215.926(a)(9) and (2), 215.946(a)(1) or 215.966(a)(1)~~

- 1783 ~~and pursuant to the proposed Adjusted RACT Emissions Limitation~~
1784 ~~including for each compliance strategy:~~
- 1785
- 1786 ~~A) — Capital costs;~~
- 1787
- 1788 ~~B) — Operating costs;~~
- 1789
- 1790 ~~C) — Any economic benefits, such as material recovery; and~~
- 1791
- 1792 ~~D) — Other costs and benefits.~~
- 1793
- 1794 ~~2) — An evaluation of the cost effectiveness in terms of annualized net cost per~~
1795 ~~ton of volatile organic material reduction for each compliance strategy.~~
1796 ~~Volatile organic material reduction is the amount of uncontrolled volatile~~
1797 ~~organic material emissions less the amount of volatile organic material~~
1798 ~~emissions after controls.~~
- 1799
- 1800 ~~3) — An evaluation of the effects of the cost of achieving emissions reduction in~~
1801 ~~relation to:~~
- 1802
- 1803 ~~A) — The annualized capital and operating budgets of the emission~~
1804 ~~source over the most recent five year period; and~~
- 1805
- 1806 ~~B) — Such other costs and economic information as the petitioner~~
1807 ~~believes may assist the Board in reaching a decision.~~
- 1808
- 1809 ~~4) — A discussion of other factors the petitioner may consider relevant such as:~~
- 1810
- 1811 ~~A) — Age of facility;~~
- 1812
- 1813 ~~B) — Quantity of emissions;~~
- 1814
- 1815 ~~C) — Nature of emissions;~~
- 1816
- 1817 ~~D) — Severity of existing air quality problems;~~
- 1818
- 1819 ~~E) — Extent of controls present;~~
- 1820
- 1821 ~~F) — Comparability to standard industry practice in related industries;~~
- 1822
- 1823 ~~G) — Cross media impacts; or~~
- 1824
- 1825 ~~H) — Potential for operational modifications~~
- 1826
- 1827 ~~5) — The basis for determining that the proposed method of emissions reduction~~
1828 ~~is RACT for the emission source and all information supporting that~~

1829 ~~determination.~~

1830

1831 (Source: Added at 12 Ill. Reg. 7311, effective April 8, 1988)

1832

1833 **Section 215.263 Public Hearing**

1834

1835 ~~In a public hearing before the Board noticed and held pursuant to the requirements of Section~~
1836 ~~28.1 of th Act, the petitioner for an Adjusted RACT Emissions Limitation shall prove:~~

1837

1838 a) ~~That the emissions limitation prescribed pursuant to Section 215.926(a)(1) and~~
1839 ~~(2), 215.946(a)(1) or 215.966(a)(1) does not constitute RACT for the specific~~
1840 ~~emission source; and~~

1841

1842 b) ~~That compliance with the proposed Adjusted RACT Emissions Limitation:~~

1843

1844 1) ~~Is RACT for that emission source based on the information provided in the~~
1845 ~~petition and at the hearing addressing subject described in Sections~~
1846 ~~215.261 and~~

1847

1848 2) ~~Will not cause or contribute to an increase in emissions so as to prevent or~~
1849 ~~interfere with the State's attainment of the air quality standards set forth in~~
1850 ~~35 Ill. Adm. Code 243.123 and 243.125.~~

1851

1852 (Source: Added at 12 Ill. Reg. 7311, effective April 8, 1988)

1853

1854 **Section 215.264 Board Action**

1855

1856 ~~The Board shall issue and maintain opinions and orders pursuant to the requirements of Section~~
1857 ~~28.1 of the Act. In addition, the Board shall publish a list of its determinations in accordance~~
1858 ~~with Section 28.1 of the Act. If an owner or operator of an emission source meets the~~
1859 ~~requirements of Sections 215.261 and 215.263 the Board may establish an Adjusted RACT~~
1860 ~~Emissions Limitation. Such Adjusted RACT Emissions imitation:~~

1861

1862 a) ~~shall substitute for that limitation otherwise prescribed by Section 215.926(a)(1)~~
1863 ~~and (2), 215.946(a)(1) or 215.966(a)(1) and~~

1864

1865 b) ~~Shall require compliance by a date certain as established by the Board for an~~
1866 ~~existing source or prior to the operation of a new emission source.~~

1867

1868 (Source: Added at 12 Ill. Reg. 7311, effective April 8, 1987)

1869

1870 **Section 215.267 Agency Petition**

1871

1872 ~~The Agency may petition the Board for an Adjusted RACT Emission Limitation for an emission~~
1873 ~~source subject to this Subpart at any time after the effective date of this Subpart. The provisions~~
1874 ~~of Sections 215.261, 215.263, and 215.264 shall apply to such petitions.~~

1875
1876
1877
1878
1879
1880
1881
1882
1883
1884
1885
1886
1887
1888
1889
1890
1891
1892
1893
1894
1895
1896
1897
1898
1899
1900
1901
1902
1903
1904
1905
1906
1907
1908
1909
1910
1911
1912
1913
1914
1915
1916
1917
1918
1919
1920

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

SUBPART K: USE OF ORGANIC MATERIAL

Section 215.301 Use of Organic Material

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

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

Section 215.302 Alternative Standard

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

- a) Flame, thermal or catalytic incineration so as either to reduce such emissions to 10 ppm equivalent methane (molecular weight 16) or less, or to convert 85 percent of the hydrocarbons to carbon dioxide and water; or,
- b) A vapor recovery system which adsorbs and/or condenses at least 85 percent of the total uncontrolled organic material that would otherwise be emitted to the atmosphere; or,
- c) Any other air pollution control equipment approved by the Agency capable of reducing by 85 percent or more the uncontrolled organic material that would be otherwise emitted to the atmosphere.

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

Section 215.303 Fuel Combustion Emission Sources

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

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

Section 215.304 Operations with Compliance Program

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

1921
1922
1923
1924
1925
1926
1927
1928
1929
1930
1931
1932
1933
1934
1935
1936
1937
1938
1939
1940
1941
1942
1943
1944
1945
1946
1947
1948
1949
1950
1951
1952
1953
1954
1955
1956
1957
1958
1959
1960
1961
1962
1963
1964
1965
1966

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

Section 215.305 Viscose Exemption (Repealed)

(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

1967
1968
1969
1970
1971
1972
1973
1974
1975
1976
1977
1978
1979
1980
1981
1982
1983
1984
1985
1986
1987
1988
1989
1990
1991
1992
1993
1994
1995
1996

- ~~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~~
 - ~~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

1997
1998

~~(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 the 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 215.340 through 215.345 within one year from the date of redesignation but in no case later than December 31, 1987.~~

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

Section 215.347 Compliance Plan

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

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

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

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

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

SUBPART P: PRINTING AND PUBLISHING

Section 215.401 Flexographic and Rotogravure Printing

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

- a) The volatile fraction of ink as it is applied to the substrate contains 25 percent or less by volume of organic solvent and 75 percent or more by volume of water; or
- b) The volatile fraction of an ink as it is applied to the substrate, less water, is 40 percent or less by volume; or

- 2045
2046 c) The owner or operator installs and operates:
2047
2048 1) A carbon adsorption system which reduces the volatile organic emissions
2049 from the capture system by at least 90 percent by weight; or
2050
2051 2) An afterburning system which oxidizes at least 90 percent of the captured
2052 nonmethane volatile organic materials (measured as total combustible
2053 carbon) to carbon dioxide and water; or
2054
2055 3) An alternative volatile organic material emission reduction system
2056 demonstrated to have at least a 90 percent overall reduction efficiency and
2057 approved by the Agency; and
2058
2059 d) A capture system is used in conjunction with any of the emission control systems
2060 in subsection (c). The design and operation of the capture system must be
2061 consistent with good engineering practice and shall provide, in combination with
2062 the control equipment, an overall reduction in volatile organic material emissions
2063 of at least:
2064
2065 1) 75 percent where a publication rotogravure process is employed; or
2066
2067 2) 65 percent or the maximum reduction achievable using good engineering
2068 design where a packaging rotogravure process is employed; or
2069
2070 3) 60 percent where a flexographic printing process is employed.
2071

2072 (Source: Added at 7 Ill. Reg. 1244, effective January 21, 1983)
2073

2074 **Section 215.402 Exemptions** 2075

2076 The limitations of this Subpart shall not apply to any facility whose aggregate uncontrolled
2077 rotogravure and/or flexographic printing press emissions of volatile organic material are limited
2078 by operating permit conditions to 907 Mg (1000 tons) per year or less in the absence of air
2079 pollution control equipment or whose actual emissions in the absence of air pollution control
2080 equipment would be less than or equal to 907 Mg (1000 tons) per year when averaged over the
2081 preceding three calendar years.
2082

2083 (Source: Added at 7 Ill. Reg. 1244, effective January 21, 1983)
2084

2085 **Section 215.403 Applicability of Subpart K** 2086

2087 Upon achieving compliance with this Subpart, the emission source is not required to meet
2088 Subpart K. Emission sources exempted from this Subpart are subject to Subpart K.
2089 ~~Rotogravure~~[Roto-gravure](#) or flexographic equipment used for both roll printing and paper
2090 coating are subject to this Subpart.

2091
2092
2093
2094
2095
2096
2097
2098
2099
2100
2101
2102
2103
2104
2105
2106
2107
2108
2109
2110
2111
2112
2113

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

Section 215.404 Testing and Monitoring (Repealed)

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

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

2114
2115
2116
2117
2118
2119
2120
2121
2122
2123
2124
2125
2126
2127
2128
2129
2130
2131
2132

- 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:~~

- 2133 1) ~~Substantial emission reductions early in the compliance schedule;~~
2134
2135 2) ~~Greater reductions in emissions than would have occurred without a low~~
2136 ~~solvent ink program; and~~
2137
2138 3) ~~Final compliance as expeditiously as possible but no later than December~~
2139 ~~31, 1987; and~~
2140
2141 b) ~~Certify to the Agency that:~~
2142
2143 1) ~~A low solvent ink compliance strategy is not technically available which~~
2144 ~~would enable the emission source to achieve compliance by the date~~
2145 ~~specified in Section 215.405; and~~
2146
2147 2) ~~An unreasonable economic burden would be incurred if the owner or~~
2148 ~~operator were required to demonstrate compliance by the date specified in~~
2149 ~~Section 215.405; and~~
2150
2151 c) ~~Agree to install one of the control alternatives specified in Section 215.401(c) by~~
2152 ~~June 31, 1986 if the specified low solvent ink strategy fails to achieve scheduled~~
2153 ~~reductions by December 31, 1985.~~
2154

2155 (Source: Added at 7 Ill. Reg. 1244, effective January 21, 1983)

2156
2157 **Section 215.407 Compliance Plan**
2158

- 2159 a) ~~The owner or operator of an emission source subject to Section 215.405(a)(1)~~
2160 ~~shall submit to the Agency a compliance plan, pursuant to 35 Ill. Adm. Code 201,~~
2161 ~~Subpart H, including a project completion schedule where applicable, no later~~
2162 ~~than April 21, 1983.~~
2163
2164 b) ~~The owner or operator of an emission source subject to Section 215.405(b) shall~~
2165 ~~submit to the Agency a compliance plan, including a project completion schedule~~
2166 ~~where applicable, no later than December 31, 1986.~~
2167
2168 c) ~~The owner or operator of an emission source subject to Section 215.405(c) shall~~
2169 ~~submit a compliance plan, including a project completion schedule within 90 days~~
2170 ~~after the date of redesignation, but in no case later than December 31, 1986.~~
2171
2172 d) ~~Unless the submitted compliance plan or schedule is disapproved by the Agency,~~
2173 ~~the owner or operator of a facility or emission source subject to the rules specified~~
2174 ~~in subsections (a), (b) or (c) may operate the emission source according to the~~
2175 ~~plan and schedule as submitted.~~
2176
2177 e) ~~The plan and schedule shall meet the requirements of 35 Ill. Adm. Code 201,~~
2178 ~~Subpart H, including specific interim dates as required in 35 Ill. Adm. Code~~

2179
2180
2181
2182
2183
2184
2185
2186
2187
2188
2189
2190
2191
2192
2193
2194
2195
2196
2197
2198
2199
2200
2201
2202
2203
2204
2205
2206
2207
2208
2209
2210
2211
2212
2213
2214
2215
2216
2217
2218
2219
2220
2221
2222
2223
2224

[201.242.](#)

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

Section 215.408 Heatset Web Offset Lithographic Printing

- a) No owner or operator of a heatset web offset lithographic printing facility, located in Cook, DuPage, Kane, Lake, Macoupin, Madison, McHenry, Monroe, St. Clair or Will County, emitting over 100 tons/year of organic material, in the absence of pollution control equipment, may cause or allow the operation of a heatset web offset press unless:
 - 1) An incinerator system is installed and operated that oxidizes at least 90 percent of the organic materials (measured as total combustible carbon) in the dryer exhaust airstream to carbon dioxide and water; or
 - 2) The fountain solution contains no more than eight (8) percent, by weight, of volatile organic material and a condensation recovery system is installed and operated that removes at least 75 percent of the non-isopropyl alcohol organic materials from the dryer exhaust airstream.
- b) No owner or operator of a heatset web offset lithographic printing facility, located in a county other than Cook, DuPage, Kane, Lake, Macoupin, Madison, McHenry, Monroe, St. Clair or Will County, emitting over 100 tons/year of organic material, in the absence of pollution control equipment, may cause or allow the operation of a heatset web offset press unless the fountain solution contains no more than eight (8) percent, by weight, of volatile organic material.

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

Section 215.409 Testing Methods for Volatile Organic Material Content

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

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

Section 215.410 Emissions Testing

- a) Any tests of volatile organic material emissions, including tests conducted to

2225 determine control equipment efficiency or control device destruction efficiency,
2226 shall be conducted in accordance with the methods and procedures specified in
2227 Section 215.102.

2228

2229 b) Upon a reasonable request by the Agency, the owner or operator of a volatile
2230 organic material emission source required to comply with the limits of this
2231 Subpart shall conduct emissions testing, at his own expense, to demonstrate
2232 compliance.

2233

2234 c) A person planning to conduct a volatile organic material emissions test to
2235 demonstrate compliance with this Subpart shall notify the Agency of that intent
2236 not less than 30 days before the planned initiation of the tests so the Agency may
2237 observe the test.

2238

2239 (Source: Added at 14 Ill. Reg. 9173, effective May 23, 1990)

2240

2241 SUBPART Q: LEAKS FROM SYNTHETIC ORGANIC CHEMICAL
2242 AND POLYMER MANUFACTURING EQUIPMENT

2243

2244 **Section 215.420 Applicability**

2245

2246 The provisions of Sections 215.421 through ~~215.428~~215.429 of this subpart shall apply to all
2247 plants in the State of Illinois which manufacture synthetic organic chemicals and polymers,
2248 except those located in any of the following counties: Will, McHenry, Cook, DuPage, Lake,
2249 Kane, Madison, St. Clair, Macoupin, and Monroe. The provisions of Section 215.430 through
2250 215.439 shall apply to the counties specifically enumerated above. In addition, if any county is
2251 redesignated as non-attainment by the USEPA subsequent to December 31, 1987, the owner or
2252 operator of a plant located in that county shall comply with the requirements of Sections 215.430
2253 through 215.439 upon the effective date of the redesignation.

2254

2255 (Source: Amended at 13 Ill. Reg. 10893, effective June 27, 1989)

2256

2257 **Section 215.421 General Requirements**

2258

2259 a) The owner or operator of a plant which has more than 1,500 components in gas or
2260 light liquid service, which components are used to manufacture the synthetic
2261 organic chemicals or polymers listed in Appendix D, shall conduct leak inspection
2262 and repair programs in accordance with this Subpart for that component
2263 containing more than 10 percent volatile organic material as determined by
2264 ASTM method E-260, E-168, and E-169, incorporated by reference in Section
2265 215.105. The provisions of this Subpart are not applicable if the products listed in
2266 Appendix D are made from natural fatty acids for the production of hexadecyl
2267 alcohol.

2268

2269 b) A component shall be considered to be leaking if the volatile organic material
2270 concentration exceeds 10,000 parts per million ppm when measured at a distance

2271 of 0 centimeters cm from the component as determined by Method 21, 40 CFR
2272 Part 60, Appendix A, incorporated by reference in Section 215.105.

2273

2274 (Source: Amended at 14 Ill. Reg. 9173, effective May 23, 1990)

2275

2276 **Section 215.422 Inspection Program Plan for Leaks**

2277

2278 The owner or operator of a synthetic organic chemical or polymer manufacturing plant subject to
2279 Section 215.421 shall prepare an inspection program plan which contains, at a minimum:

2280

2281 a) An identification of all components and the period in which each will be
2282 monitored pursuant to Section 215.423;

2283

2284 b) The format for the monitoring log required by Section 215.424;

2285

2286 c) A description of the monitoring equipment to be used pursuant to Section
2287 215.423; and

2288

2289 d) A description of the methods to be used to identify all pipeline valves, pressure
2290 relief valves in gaseous service, all leaking components, and the ball and plug
2291 valves and pumps exempted under Section 215.423(h) such that they are obvious
2292 and can be located by both plant personnel performing monitoring and Agency
2293 personnel performing inspections.

2294

2295 (Source: Former Section 215.422 recodified to Section 215.423, new Section 215.422
2296 recodified from Section 215.421 at 11 Ill. Reg. 13541, effective August 4, 1987)

2297

2298 **Section 215.423 Inspection Program for Leaks**

2299

2300 The owner or operator of a synthetic organic chemical or polymer manufacturing plant subject to
2301 Section 215.420 shall, for the purposes of detecting leaks, conduct a component inspection
2302 program consistent with the following provisions.

2303

2304 a) Test annually those components operated near extreme temperature or pressure
2305 such that they would be unsafe to routinely monitor, and those components
2306 located more than two meters above or away from permanent worker access
2307 structures or surfaces;

2308

2309 b) Test all other pressure relief valves in gaseous service, pump seals, pipelines
2310 valves, process drains and compressor seals not earlier than March 1 or later than
2311 June 1 of each year;

2312

2313 c) If more than 2 percent of the components tested pursuant to subsection (b) are
2314 found to leak, again test all pressure relief valves in gaseous service, pipeline
2315 valves in gaseous service and compressor seals by methods and procedures
2316 approved by the Agency not earlier than June 1 or later than September 1 of each

- 2317 year;
- 2318
- 2319 d) Observe visually all pump seals weekly;
- 2320
- 2321 e) Test immediately any pump seal from which liquids are observed dripping;
- 2322
- 2323 f) Test any relief valve within 24 hours after it has vented to the atmosphere; and
- 2324
- 2325 g) Test immediately after repair any component that was found leaking.
- 2326
- 2327 h) Ball and plug valves, inaccessible valves, storage tank valves, pumps equipped
- 2328 with mechanical seals, pressure relief devices connected to an operating flare
- 2329 header or vapor recovery device are exempt from the monitoring requirements in
- 2330 this Section.
- 2331

2332 (Source: Former Section 215.423 recodified to Section 215.424, new Section 215.423

2333 recodified from Section 215.422 at 11 Ill. Reg. 13541, effective August 4, 1987)

2334

2335 **Section 215.424 Repairing Leaks**

2336

2337 All leaking components must be repaired and retested as soon as practicable but no later than 21

2338 days after the leak is found unless the leaking component cannot be repaired until the process

2339 unit is shutdown or the repair part is received. Records of repairing and retesting must be

2340 maintained in accordance with Sections 215.424 and 215.425.

2341

2342 (Source: Former Section 215.424 recodified to Section 215.425, new Section 215.424

2343 recodified from Section 215.423 at 11 Ill. Reg. 13541, effective August 4, 1987)

2344

2345 **Section 215.425 Recordkeeping for Leaks**

2346

- 2347 a) The owner or operator of a synthetic organic chemical or polymer manufacturing
- 2348 plant shall maintain a leaking components monitoring log which shall contain, at
- 2349 a minimum, the following information:
- 2350
- 2351 1) The name of the process unit where the component is located;
- 2352
- 2353 2) The type of component (e.g., valve, seal);
- 2354
- 2355 3) The identification number of the component;
- 2356
- 2357 4) The date on which a leaking component is discovered;
- 2358
- 2359 5) The date on which a leaking component is repaired;
- 2360
- 2361 6) The date and instrument reading of the recheck procedure after a leaking
- 2362 component is repaired;

2363
2364
2365
2366
2367
2368
2369
2370
2371
2372
2373
2374
2375
2376
2377
2378
2379
2380
2381
2382
2383
2384
2385
2386
2387
2388
2389
2390
2391
2392
2393
2394
2395
2396
2397
2398
2399
2400
2401
2402
2403
2404
2405
2406
2407
2408

- 7) A record of the calibration of the monitoring instrument;
 - 8) The identification number of leaking components which cannot be repaired until process unit shutdown; and
 - 9) The total number of components inspected and the total number of components found leaking during that monitoring period.
- 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 prepared.
 - c) Copies of the monitoring log shall be made available to the Agency, upon verbal or written request, at any reasonable time.

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

Section 215.426 Report for Leaks

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

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

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

Section 215.427 Alternative Program for Leaks

The Agency shall approve an alternative program of monitoring, recordkeeping, and/or reporting to that prescribed in Sections 215.421 through 215.426, upon a demonstration by the owner or operator of such plant that the alternative program will provide plant personnel and Agency personnel with an equivalent ability 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 215.422.

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

2409
2410
2411
2412
2413
2414
2415
2416
2417
2418
2419
2420
2421
2422
2423
2424
2425
2426
2427
2428
2429
2430
2431
2432
2433
2434
2435
2436
2437
2438
2439
2440
2441
2442
2443
2444
2445
2446
2447
2448
2449
2450
2451
2452
2453
2454

Section 215.428 Compliance Dates

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

(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.

- 2455
2456 c) A description of the monitoring equipment to be used when complying with
2457 Section 215.432, and
2458
2459 d) A description of the methods to be used to identify all pipeline valves, pressure
2460 relief valves in gaseous service, all leaking components, and components
2461 exempted under Section 215.432(i) such that they are obvious and can be located
2462 by both plant personnel performing monitoring and Agency personnel performing
2463 inspections.
2464

2465 (Source: Added at 11 Ill. Reg. 20829, effective December 14, 1987)
2466

2467 **Section 215.432 Inspection Program for Leaks**
2468

2469 The owner or operator of a synthetic organic chemical or polymer manufacturing plant subject to
2470 Section 215.430 through 215.439, shall for the purpose of detecting leaks, conduct a component
2471 inspection program utilizing the test methods specified in USEPA Reference Method 21, 40 CFR
2472 60, Appendix A (1986), incorporated by reference in Section 215.105, consistent with the
2473 following provisions:
2474

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

2501 service that is found to be leaking on the basis of sight, smell or sound shall be
2502 repaired as soon as practicable but no later than 30 days after the leak is found.

- 2503
- 2504 h) Test immediately after repair any component that was found leaking.
- 2505
- 2506 i) Within 1 hour of its detection, a weatherproof, readily visible tag, in bright colors
2507 such as red or yellow, bearing an identification number and the date on which the
2508 leak was detected must be affixed on the leaking component and remain in place
2509 until the leaking component is repaired.
- 2510
- 2511 j) Any component that is in vacuum service or any pressure relief devices connected
2512 to an operating flare header or to a vapor recovery devices is exempt from the
2513 monitoring requirements in this Section.
- 2514

2515 (Source: Amended at 13 Ill. Reg. 10893, effective June 27, 1989)

2516

2517 **Section 215.433 Repairing Leaks**

2518

2519 All leaking components must be repaired and retested as soon as practicable but no later than 15
2520 days after the leak is found unless the leaking component cannot be repaired until the process
2521 unit is shut down. Records of repairing and retesting must be maintained in accordance with
2522 Section 215.434 and 215.435.

2523

2524 (Source: Added at 11 Ill. Reg. 20829, effective December 14, 1987)

2525

2526 **Section 215.434 Recordkeeping for Leaks**

2527

- 2528 a) The owner or operator of a synthetic organic chemical or polymer manufacturing
2529 plant shall maintain a leaking components monitoring log which shall contain, at
2530 a minimum, the following information:
- 2531
- 2532 1) The name of the process unit where the component is located;
- 2533
- 2534 2) The type of component (e.g., valve, seal);
- 2535
- 2536 3) The identification number of the component;
- 2537
- 2538 4) The date on which a leaking component is discovered;
- 2539
- 2540 5) The date on which a leaking component is repaired;
- 2541
- 2542 6) The date and instrument reading of the recheck procedure after a leaking
2543 component is repaired;
- 2544
- 2545 7) A record of the calibration of the monitoring instrument;
- 2546

- 2547 8) The identification number of leaking components which cannot be
2548 repaired until process unit shutdown; and
2549
2550 9) The total number of valves in light liquid service and in gas service
2551 inspected; the total number and the percentage of these valves found
2552 leaking during the monitoring period.
2553
2554 b) Copies of the monitoring log shall be retained by the owner or operator for a
2555 minimum of two years after the date on which the record was made or the report
2556 was prepared.
2557
2558 c) Copies of the monitoring log shall be made available to the Agency upon verbal
2559 or written request prior to or at the time of inspection pursuant to Section 4(d) of
2560 the Environmental Protection Act (Act) (Ill. Rev. Stat. 1985, ch. 111½, pars. 1001
2561 et seq., at any reasonable time.
2562

2563 (Source: Added at 11 Ill. Reg. 20829, effective December 14, 1987)
2564

2565 **Section 215.435 Report for Leaks**

2566
2567 The owner or operator of a synthetic organic chemical or polymer manufacturing plant subject to
2568 Section 215.430 through 215.439 shall:
2569

- 2570 a) Submit quarterly reports to the Agency on or before March 31, June 30,
2571 September 30, and December 31 of each year, listing all leaking components
2572 identified pursuant to Section 215.432 but not repaired within 15 days, all leaking
2573 components awaiting process unit shutdown, the total number of components
2574 inspected, the type of components inspected, and the total number of components
2575 found leaking, the total number of valves in light liquid service and in gas service
2576 inspected and the number and percentage of valves in light liquid service and in
2577 gas service found leaking.
2578
2579 b) Submit a signed statement with the report attesting that all monitoring and repairs
2580 were ~~performed~~performed as required under Section 215.430 through 215.436.
2581

2582 (Source: Amended at 13 Ill. Reg. 10893, effective June 27, 1989)
2583

2584 **Section 215.436 Alternative Program for Leaks**

2585
2586 The Agency shall approve an alternative program of monitoring, recordkeeping, or reporting to
2587 that prescribed in Sections 215.430 through 215.438, upon a demonstration by the owner or
2588 operator of such plant that the alternative program will provide plant personnel and Agency
2589 personnel with an ability equivalent to the monitoring, recordkeeping or reporting requirements
2590 of this Part to identify and repair leaking components. The owner or operator utilizing an
2591 alternative monitoring program shall submit to the Agency an alternative monitoring program
2592 plan consistent with the provisions of Section 215.431.

2593

2594

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

2595

2596

Section 215.437 Open-Ended Valves

2597

2598

- a) Each open-ended valve shall be equipped with a cap, blind flange, plug, or a second valve, except during operations requiring fluid flow through the open-ended valve.

2599

2600

2601

2602

- b) Each open-ended valve equipped with a second valve shall be operated in a manner such that the valve on the process fluid end is closed before the second valve is closed.

2603

2604

2605

2606

- c) Components which are open-ended valves and which serve as a sampling connection shall be controlled such that:

2607

2608

2609

- 1) A closed purge system or closed vent system shall return purged process fluid to the process line with no detectable volatile organic material emissions to the atmosphere, or

2610

2611

2612

2613

- 2) A closed purge system or closed vent system shall collect and recycle purged process fluid to the process line with no detectable volatile organic material emissions to the atmosphere, or

2614

2615

2616

2617

- 3) Purged process fluid shall be transported to a control device that complies with the requirements of Section 215.438.

2618

2619

- d) In-situ sampling systems are exempt from subsection (c).

2620

2621

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

2622

2623

2624

Section 215.438 Standards for Control Devices

2625

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

2626

2627

2628

- a) If the control device is a vapor recovery system (for example, condensers and adsorbers) it shall be designed and operated to recover the volatile organic material emissions vented to it with an efficiency of 95 percent or greater.

2629

2630

2631

2632

- b) If the control device is an enclosed combustion device, it shall be designed and operated to reduce the volatile organic material emissions vented to it with an efficiency of 95 percent or greater, or to provide a minimum residence time of 0.75 seconds at a minimum temperature of 816° C.

2633

2634

2635

2636

- c) If the control device is a flare, it shall:

2637

2638

- 2639 1) Be designed for and operated with no visible emissions as determined by
2640 USEPA Reference Method 22, 40 CFR 60, Appendix A, 1986,
2641 incorporated by reference in Section 215.105, except for periods not to
2642 exceed a total of 5 minutes during any 2 consecutive hours.
2643
- 2644 2) Be operated with a pilot flame present at all times and shall be monitored
2645 with a thermocouple or any other equivalent device to detect the presence
2646 of the pilot flame.
2647
- 2648 3) Be steam-assisted, air assisted, or nonassisted.
2649
- 2650 4) Be used only with the net heating value of the gas being combusted being
2651 11.2 MJ/scm (300 Btu/scf) or greater if the flare is steam-assisted or air-
2652 assisted; or with the net heating value of the gas being combusted being
2653 7.45 MJ/scm or greater if the flare is nonassisted. The net heating value of
2654 the gas being combusted shall be calculated using the following equation:
2655

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

2656

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.

2657

K = Constant,

2658

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

2659

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.

- 2660
2661 5) Steam-assisted and nonassisted flares shall be designed and operated with
2662 an exit velocity, as determined by dividing the volumetric flowrate (in
2663 units of standard temperature and pressure), as determined by USEPA
2664 Reference Method 2 or 2A, 40 CFR 60, Appendix A (1986) incorporated
2665 by reference in Section 215.105, as appropriate; by the unobstructed (free)
2666 cross sectional area of the flare tip, less than 18 m/sec (60 ft/sec.).
2667
2668 6) Air-assisted flares shall be designed and operated with an exit velocity less
2669 than the maximum permitted velocity, V_{\max} , as determined by the
2670 following equation:
2671

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

- 2672
2673 d) If the control device is a closed container, it shall be designed and operated to
2674 reduce the volatile organic material emissions, vented from purged process fluid
2675 after transfer, to no detectable volatile organic material emissions as determined
2676 by USEPA Reference Method 21 as specified at 40 CFR 60, Appendix A (1986),
2677 incorporated by reference in Section 215.105. For purposes of this Section, the
2678 phrase "after transfer" shall refer to the time at which the entire amount of purged
2679 process fluid resulting from a flushing or cleaning of the sample line enters the
2680 closed container or containers including the final container(s) prior to disposal.
2681
2682 e) The owner or operator of a control device shall monitor the control device to
2683 ensure that it is operated and maintained in conformance with the manufacturer's
2684 specifications, modified to the particular process design.
2685
2686 f) The control device shall be operated at all times when emissions may be vented to
2687 it.
2688

2689 (Source: Former Section 215.438 renumbered to Section 215.439, new Section 215.438
2690 adopted at 13 Ill. Reg. 10893, effective June 27, 1989)
2691

2692 **Section 215.439 Compliance Date**

2693
2694 The owner or operator of a synthetic organic chemical or polymer manufacturing plant subject to
2695 Sections 215.430 through 215.439 shall comply with the standards and limitations of those
2696 Sections no later than December 31, 1987.
2697

2698 (Source: Former Section 215.439 renumbered from Section 215.438 and amended at 13
2699 Ill. Reg. 10893, effective June 27, 1989)
2700

SUBPART R: PETROLEUM REFINING AND RELATED
INDUSTRIES; ASPHALT MATERIALS

Section 215.441 Petroleum Refinery Waste Gas Disposal

- a) Except as provided in subsections (b) or (c), no person shall cause or allow the discharge of organic materials in excess of 100 ppm equivalent methane (molecular weight 16.0) into the atmosphere from:
- 1) Any catalyst regenerator of a petroleum cracking system; or
 - 2) Any petroleum fluid coker; or
 - 3) Any other waste gas stream from any petroleum or petrochemical manufacturing process.
- b) Exception. Existing sources subject to subsection (a)(3) may, alternatively, at their election, comply with the organic material emission limitations imposed by Section 215.301 or 215.302; provided, however, that there shall be no increase in emissions from such sources above the level of emissions in existence on May 3, 1979.
- c) New Sources. Sources subject to subsection (a)(3), construction of which commenced on or after January 1, 1977, may, at their election, comply with the following emission limitations:
- 1) A maximum of eight pounds per hour of organic material; or
 - 2) Emission of organic material in excess of the limitation of subsection (c)(1) is allowable if such emissions are controlled by air pollution control methods or equipment approved by the Agency capable of reducing by 85 percent or more the uncontrolled organic material that would otherwise be emitted to the atmosphere.

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

Section 215.442 Vacuum Producing Systems

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

2747 (Source: Amended at 12 Ill. Reg. 815, effective December 24, 1987)

2748

2749 **Section 215.443 Wastewater (Oil/Water) Separator**

2750

2751 No owner or operator of a petroleum refinery shall operate any wastewater (oil/water) separator
2752 at a petroleum refinery unless the separator is equipped with air pollution control equipment
2753 capable of reducing by 85 percent or more the uncontrolled organic material emitted to the
2754 atmosphere. If no odor nuisance exists, the limitation of this Section shall not apply if the vapor
2755 pressure of the organic material is below 10.34 kPa (1.5 psia) at 204.3 K (70 F) at all times.

2756

2757 (Source: Amended at 12 Ill. Reg. 815, effective December 24, 1987)

2758

2759 **Section 215.444 Process Unit Turnarounds**

2760

2761 a) No owner or operator of a petroleum refinery shall cause or allow a refinery
2762 process unit turnaround except in compliance with an operating procedure as
2763 approved by the Agency.

2764

2765 b) Unless a procedure is already on file with the Agency as part of an approved
2766 operating permit no later than November 1, 1979, the owner or operator of a
2767 petroleum refinery shall submit to the Agency for approval a detailed procedure
2768 for reducing emissions of volatile organic material during refinery process unit
2769 turnarounds from organic material with a vapor pressure of 10.34 kPa (1.5 psia)
2770 or greater at 294.3 K (70 F). The Agency shall not approve the procedure unless
2771 it provides for:

2772

2773 1) Depressurization of the refinery process unit or vessel to a flare, refinery
2774 fuel gas system or other equipment or system of equal emission control, as
2775 approved by the Agency, until the internal pressure from the vessel or unit
2776 is less than 5.0 psig before allowing the vessel to be vented to the
2777 atmosphere;

2778

2779 2) Recordkeeping of the following items:

2780

2781 A) Each date that a refinery unit or vessel is shut down; and

2782

2783 B) The total estimated quantity of volatile organic material emitted to
2784 the atmosphere and the duration of the emission in hours.

2785

2786 (Source: Amended at 12 Ill. Reg. 815, effective December 24, 1987)

2787

2788 **Section 215.445 Leaks: General Requirements**

2789

2790 a) The owner or operator of a petroleum refinery shall:

2791

2792 1) Develop a monitoring program plan consistent with the provisions of

- 2793 Section 215.446;
2794
2795 2) Conduct a monitoring program consistent with the provisions of Section
2796 215.447;
2797
2798 3) Conduct all tests for leaks in accordance with Method 21, 40 CFR 60,
2799 Appendix A, incorporated by reference in Section 215.105.
2800
2801 4) Record all leaking components which have a volatile organic material
2802 concentration exceeding 10,000 ppm consistent with the provisions of
2803 Section 215.448;
2804
2805 5) Identify each component consistent with the monitoring program plan
2806 submitted pursuant to Section 215.446;
2807
2808 6) Repair and retest the leaking components as soon as possible within 22
2809 days after the leak is found, but no later than June 1 for the purposes of
2810 Section 215.447(a)(1), unless the leaking components cannot be repaired
2811 until the unit is shut down for turnaround; and
2812
2813 7) Report to the Agency consistent with the provisions of Section 215.449.
2814
2815 b) A component shall be considered to be leaking if the volatile organic material
2816 concentration exceeds 10,000 ppm when measured at a distance of 0 cm from the
2817 component as determined by Method 21, 40 ~~CFR~~C.F.R. 60, Appendix A,
2818 incorporated by reference in Section 215.105.
2819

2820 (Source: Amended at 14 Ill. Reg. 9173, effective May 23, 1990)

2821
2822 **Section 215.446 Monitoring Program Plan for Leaks**
2823

2824 The owner or operator of a petroleum refinery shall prepare a monitoring program plan which
2825 contains, at a minimum:

- 2826
2827 a) An identification of all refinery components and the period in which each will be
2828 monitored pursuant to Section 215.447;
2829
2830 b) The format for the monitoring log required by Section 215.448;
2831
2832 c) A description of the monitoring equipment to be used pursuant to Section
2833 215.447; and
2834
2835 d) A description of the methods to be used to identify all pipeline valves, pressure
2836 relief valves in gaseous service and all leaking components such that they are
2837 obvious to both refinery personnel performing monitoring and Agency personnel
2838 performing inspections.

2839
2840
2841
2842
2843
2844
2845
2846
2847
2848
2849
2850
2851
2852
2853
2854
2855
2856
2857
2858
2859
2860
2861
2862
2863
2864
2865
2866
2867
2868
2869
2870
2871
2872
2873
2874
2875
2876
2877
2878
2879
2880
2881
2882
2883
2884

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

Section 215.447 Monitoring Program for Leaks

- a) The owner or operator of a petroleum refinery subject to Section 215.445 shall, for the purpose of detecting leaks, conduct a component monitoring program consistent with the following provisions:
 - 1) Test all pressure relief valves in gaseous service, pump seals, pipeline valves, process drains and compressor seals by methods and procedures approved by the Agency not earlier than March 1 or later than June 1 of each year;
 - 2) Again test all pressure relief valves in gaseous service, pipeline valves in gaseous service and compressor seals by methods and procedures approved by the Agency not earlier than June 1 or later than August 1 of each year;
 - 3) Observe visually all pump seals weekly;
 - 4) Test immediately any pump seal from which liquids are observed dripping;
 - 5) Test any relief valve within 24 hours after it has vented to the atmosphere; and
 - 6) Test immediately after repair any component that was found leaking.
- b) Inaccessible valves, storage tank valves and pressure relief devices connected to an operating flare header or vapor recovery device are exempt from the monitoring requirements in Subsection (a).
- c) The Agency may require more frequent monitoring than would otherwise be required by Subsection (a) for components which are demonstrated to have a history of leaking.

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

Section 215.448 Recordkeeping for Leaks

- a) The owner or operator of a petroleum refinery shall maintain a leaking components monitoring log which shall contain, at a minimum, the following information:
 - 1) The name of the process unit where the component is located;

- 2885
2886 2) The type of component (e.g., valve, seal);
2887
2888 3) The identification number of the component;
2889
2890 4) The date on which a leaking component is discovered;
2891
2892 5) The date on which a leaking component is repaired;
2893
2894 6) The date and instrument reading of the recheck procedure after a leaking
2895 component is repaired;
2896
2897 7) A record of the calibration of the monitoring instrument;
2898
2899 8) The identification number of leaking components which cannot be
2900 repaired until turn-around; and
2901
2902 9) The total number of components inspected and the total number of
2903 components found leaking during that monitoring period.
2904
2905 b) Copies of the monitoring log shall be retained by the owner or operator for a
2906 minimum of two years after the date on which the record was made or the report
2907 prepared.
2908
2909 c) Copies of the monitoring log shall be made available to the Agency, upon verbal
2910 or written request, at any reasonable time.

2911
2912 (Source: Amended at 7 Ill. Reg. 1244, effective January 21,1983)
2913

2914 **Section 215.449 Reporting for Leaks**

2915
2916 The owner or operator of a petroleum refinery shall:
2917

- 2918 a) Submit a report to the Agency prior to the 1st day of both July and September
2919 listing all leaking components identified pursuant to Section 215.447 but not
2920 repaired within 22 days, all leaking components awaiting unit turnaround, the
2921 total number of components inspected and the total number of components found
2922 leaking;
2923
2924 b) Submit a signed statement with the report attesting that all monitoring and repairs
2925 were performed as required under Sections 215.445 through 215.448.
2926

2927 (Source: Amended at 7 Ill. Reg. 1244, effective January 21, 1983)
2928

2929 **Section 215.450 Alternative Program for Leaks**

2930

2931 The Agency may approve an alternative program of monitoring, recordkeeping, and/or reporting
2932 to that prescribed in Sections 215.446 through 215.449, upon a demonstration by the owner or
2933 operator of a petroleum refinery that the alternative program will provide refinery and Agency
2934 personnel with an equivalent ability to identify and repair leaking components. The owner or
2935 operator utilizing an alternative monitoring program shall submit to the Agency an alternative
2936 monitoring program plan consistent with the provisions of Section 215.446.

2937

2938 (Source: Amended at 7 Ill. Reg. 1244, effective January 21, 1983)

2939

2940 **Section 215.451 Sealing Device Requirements**

2941

2942 Except for safety pressure relief valves, no owner or operator of a petroleum refinery shall install
2943 or operate a valve at the end of a pipe or line containing volatile organic materials unless the pipe
2944 or line is sealed with a second valve, blind flange, plug, cap or other sealing device. The sealing
2945 device may be removed only when a sample is being taken or during maintenance operations.

2946

2947 (Source: Amended at 7 Ill. Reg. 1244, effective January 21, 1983)

2948

2949 **Section 215.452 Compliance Schedule for Leaks**

2950

2951 The owner or operator of a petroleum refinery shall adhere to the increments of progress
2952 contained in the following schedule:

2953

2954 a) Submit to the Agency a monitoring program plan consistent with Section 215.446
2955 prior to June 1, 1983.

2956

2957 b) Submit the first monitoring report pursuant to Section 215.449 to the Agency
2958 prior to July 1, 1983.

2959

2960 (Source: Amended at 7 Ill. Reg. 1244, effective January 21, 1983)

2961

2962 **Section 215.453 Compliance Dates and Geographical Areas**

2963

2964 a) Except as otherwise stated in subsection (b), every owner or operator of an
2965 emission source subject to Sections 215.445 through 215.451 shall comply with
2966 those standards and limitations in accordance with Section 215.452.

2967

2968 b) If an emission source is not located in one of the counties listed below and is also
2969 not located in any county contiguous thereto, the owner or operator of the
2970 emission source shall comply with the requirements of Sections 215.445 through
2971 215.451 no later than December 31, 1987:

2972

Cook

DuPage

Kane

Lake

Macoupin

Madison

Monroe

Saint Clair

2973
2974
2975
2976
2977
2978
2979
2980
2981
2982
2983
2984
2985
2986
2987
2988
2989
2990
2991
2992
2993
2994
2995
2996
2997
2998
2999
3000
3001
3002
3003
3004
3005
3006
3007
3008
3009
3010
3011
3012
3013
3014
3015
3016
3017
3018

(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 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 215.445 through 215.451 within one year from the date of redesignation but in no case later than December 31, 1987.

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

SUBPART S: RUBBER AND MISCELLANEOUS
PLASTIC PRODUCTS

Section 215.461 Manufacture of Pneumatic Rubber Tires

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

- a) A capture system, with minimum capture efficiency of 65 percent by weight of volatile organic material for treadend cementing or bead dipping operations and a capture system with a minimum capture efficiency of 55.5 percent by weight of volatile organic material for undertread cementing; and
- b) A control device that meets the requirements of one of the following:
- 1) A carbon adsorption system designed and operated in a manner such that there is at least a 90 percent removal of volatile organic material by weight from the gases ducted to the control device;
 - 2) An afterburning system that oxidizes at least 90 percent of the captured nonmethane volatile organic materials (VOM measured as total combustible carbon) to carbon dioxide and water; and
 - 3) An alternative volatile organic material emission reduction system demonstrated to have at least a 90 percent overall reduction efficiency and approved by the Agency.

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

Section 215.462 Green Tire Spraying Operations

The owner or operator of a green tire spraying operation at a pneumatic rubber tire

3019 manufacturing facility shall:

3020

3021 a) Install and operate:

3022

3023 1) A capture system with a minimum capture efficiency of 90 percent by
3024 weight of volatile organic material; and

3025

3026 2) A control device that meets the requirements of one of the following:

3027

3028 A) A carbon adsorption system designed and operated in a manner
3029 such that there is at least 90 percent removal of volatile organic
3030 material by weight from the bases ducted to the control device;

3031

3032 B) An afterburning system that oxidizes at least 90 percent of the
3033 captured non-methane volatile organic material (measured as total
3034 combustible carbon) to carbon dioxide and water; or

3035

3036 C) An alternative volatile organic material emission reduction system
3037 demonstrated to have at least a 90 percent overall reduction
3038 efficiency and approved by the Agency.

3039

3040 b) Substitute for the normal solvent-based mold release compound water-based
3041 sprays containing:

3042

3043 1) No more than five percent by volume of volatile organic material as
3044 applied for the inside of tires;

3045

3046 2) No more than ten percent by volume of volatile organic material as
3047 applied for the outside of tires.

3048

3049 (Source: Added at 7 Ill. Reg. 1244, effective January 21, 1983)

3050

3051 **Section 215.463 Alternative Emission Reduction Systems**

3052

3053 In lieu of complying with Section 215.461 or 215.462, the owner or operator of an emission
3054 source may utilize an alternative volatile organic emission reduction system, including an
3055 alternative production process, which is ~~demonstrated~~ ~~demon-strated~~ to be equivalent to Section
3056 215.461 or 215.462 on the basis of emissions of volatile organic matter. A treadend cementing
3057 operation shall be considered equivalent to Section 215.461 or 215.462 for the purposes of this
3058 Section if the total volatile organic emission from such operation is 10 grams or less per tire.

3059

3060 (Source: Added at 7 Ill. Reg. 1244, effective January 21, 1983)

3061

3062 **Section 215.464 Emissions Testing and Monitoring**

3063

3064 a) Any tests of volatile organic material emissions, including tests conducted to

3065 determine control equipment efficiency or control device destruction efficiency,
3066 shall be conducted in accordance with the methods and procedures specified in
3067 Section 215.102.

- 3068
- 3069 b) Upon a reasonable request by the Agency, the owner or operator of a volatile
3070 organic material emission source required to comply with a limit of Sections
3071 215.461 through 215.464 shall conduct emissions testing, at such person's own
3072 expense, to demonstrate compliance.
- 3073
- 3074 c) A person planning to conduct a volatile organic material emission test to
3075 demonstrate compliance shall notify the Agency of that intent not less than 30
3076 days before the planned initiation of the tests so the Agency may observe the test.
- 3077

3078 (Source: Amended at 14 Ill. Reg. 9173, effective May 23, 1990)

3079

3080 **Section 215.465 Compliance Dates and Geographical Areas**

3081

- 3082 a) Except as otherwise stated in subsection (b), every owner or operator of an
3083 emission source subject to Sections 215.461 through 215.464 shall comply with
3084 the standards and limitations of this Part by December 31, 1983.
- 3085
- 3086 b) If an emission source is not located in one of the counties listed below and is also
3087 not located in any county contiguous thereto, the owner or operator of the
3088 emission source shall comply with the requirements of Sections 215.461 through
3089 215.464 no later than December 31, 1987:
- 3090

Cook	Macoupin
DuPage	Madison
Kane	Monroe
Lake	Saint Clair

3091

3092 (BOARD NOTE: These counties are proposed to be designated as nonattainment
3093 by the USEPA at 47 Fed. Reg. 31588, July 21, 1982)

3094

- 3095 c) Notwithstanding subsection (b), if any county is designated as nonattainment by
3096 the USEPA at any time subsequent to the effective date of this Section, the owner
3097 or operator of an emission source located in that county or any county contiguous
3098 to that county who would otherwise be subject to the compliance date in
3099 subsection (b) shall comply with the requirements of Sections 215.461 through
3100 215.464 within one year from the date of redesignation but in no case later than
3101 December 31, 1987.

3102

3103 (Source: Added at 7 Ill. Reg. 1244, effective January 21, 1983)

3104

3105 **Section 215.466 Compliance Plan**

3106

- 3107 ~~a) — The owner or operator of an emission source subject to Section 215.465(a) shall~~
3108 ~~submit to the Agency a compliance plan, pursuant to 35 Ill. Adm. Code 201,~~
3109 ~~Subpart H, including a project completion schedule where applicable, no later~~
3110 ~~than April 21, 1983.~~
- 3111
- 3112 ~~b) — The owner or operator of an emission source subject to Section 215.465(b) shall~~
3113 ~~submit to the Agency a compliance plan, including a project completion schedule~~
3114 ~~where applicable, no later than December 31, 1986.~~
- 3115
- 3116 ~~c) — The owner or operator of an emission source subject to Section 215.465(c) shall~~
3117 ~~submit a compliance plan, including a project completion schedule within 90 days~~
3118 ~~after the date of redesignation, but in no case later than December 31, 1986.~~
- 3119
- 3120 ~~d) — Unless the submitted compliance plan or schedule is disapproved by the Agency,~~
3121 ~~the owner or operator of a facility or emission source subject to the rules specified~~
3122 ~~in subsections (a), (b) or (c) may operate the emission source according to the~~
3123 ~~plan and schedule as submitted.~~
- 3124
- 3125 ~~e) — The plan and schedule shall meet the requirements of 35 Ill. Adm. Code 201,~~
3126 ~~Subpart H, including specific interim dates as required in 35 Ill. Adm. Code~~
3127 ~~201.242.~~
- 3128

3129 (Source: Added at 7 Ill. Reg. 1244, effective January 21, 1983)

3130

3131 **Section 215.467 Testing Methods for Volatile Organic Material Content**

3132

3133 The volatile organic material content for all VOM emitting materials except printing inks shall
3134 be determined by Method 24, 40 CFR 60, Appendix A, incorporated by reference in Section
3135 215.105. Any alternate test method must be approved by the Agency, which shall consider data
3136 comparing the performance of the proposed alternative to the performance of the approved test
3137 method(s). If the Agency determines that such data demonstrates that the proposed alternative
3138 will achieve results equivalent to the approved test method(s), the Agency shall approved the
3139 proposed alternative.

3140

3141 (Source: Added at 14 Ill. Reg. 9173, effective May 23, 1990)

3142

3143 **SUBPART T: PHARMACEUTICAL MANUFACTURING**

3144

3145 **Section 215.480 Applicability of Subpart T**

3146

- 3147 a) The rules of this Subpart, except for Sections 215.483 through 215.485, apply to
3148 all emission sources of volatile organic material, including but not limited to
3149 reactors, distillation units, dryers, storage tanks for volatile organic liquids,
3150 equipment for the transfer of volatile organic liquids, filters, crystallizers,
3151 washers, laboratory hoods, pharmaceutical coating operations, mixing operations
3152 and centrifuges used in manufacturing, including packaging, of pharmaceuticals,

3153 and emitting more than 6.8 kg/day (15 lbs/day) of volatile organic material and
3154 more than 2268 kg/year (2.5 tons/year) of volatile organic material. If an emission
3155 source emits less than 2,268 kg/year (2.5 tons/year) of volatile organic material,
3156 the requirements of this Subpart, except for Sections 215.483 through 215.485,
3157 still apply to the emission source if volatile organic material emissions from the
3158 emission source exceed 45.4 kg/day (100 lbs/day).

3159
3160 b) Notwithstanding subsection (a), the air suspension coater/dryer, fluid bed dryers,
3161 tunnel dryers and Accelacotas located in Libertyville Township, Lake County,
3162 Illinois shall be exempt from the rules of this Subpart, except for Sections
3163 215.483 through 215.485, if emissions of volatile organic material not vented to
3164 air pollution control equipment do not exceed the following levels: for the air
3165 suspension coater/dryer: 2268 kg/year (2.5 tons per year); for each fluid bed
3166 dryer: 4535 kg per year (5.0 tons per year); and for each tunnel driver: 6803 kg
3167 per year (7.5 tons per year); and for each Accelacota: 6803 kg per year (7.5 tons
3168 per year).

3169
3170 c) Sections 215.483 through 215.485 apply to a plant having one or more emission
3171 sources that:

- 3172
3173 1) are used to manufacture pharmaceuticals; and
3174
3175 2) emit more than 6.8 kg/day (15 lbs/day) of volatile organic material and
3176 more than 2268 kg/year (2.5 tons/year) of volatile organic material, or, if
3177 less than 2.5 tons/year, these sections still apply if emissions from one or
3178 more emission sources exceed 45.4 kg/day (100 lbs/day).

3179
3180 d) No person shall violate any condition in a permit when the condition results in
3181 exclusion of an emission source from this Subpart.

3182
3183 e) Emissions subject to this Subpart shall be controlled at all times, consistent with
3184 the requirements set forth in this Subpart.

3185
3186 f) Control devices required pursuant to Section 215.483 shall be operated at all
3187 times.

3188
3189 g) If a pharmaceutical manufacturing emission source becomes subject to the
3190 provisions of Section 215.481, 215.482 or 215.486 on or after the compliance date
3191 specified in Section 215.490(a), the requirements of such section shall continue to
3192 apply to the emission source even if there is a reduction in emissions as to be
3193 below the applicability criteria of this Section.

3194
3195 h) Determinations of daily and/or annual emissions

- 3196
3197 1) Determinations of daily and/or annual emissions for purposes of this
3198 Section shall be made using:

3199
3200
3201
3202
3203
3204
3205
3206
3207
3208
3209
3210
3211
3212
3213
3214
3215
3216
3217
3218
3219
3220
3221
3222
3223
3224
3225
3226
3227
3228
3229
3230
3231
3232
3233
3234
3235
3236
3237
3238
3239
3240
3241
3242
3243
3244

- (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.
- 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

3245 other air pollution control equipment other than a surface condenser is
3246 used, such equipment shall provide a reduction in the emissions of volatile
3247 organic material of 90 percent or more.
3248

3249 b) The owner or operator shall enclose all centrifuges used to manufacture
3250 pharmaceuticals and that have an exposed volatile organic liquid surface, where
3251 the volatile organic material in the volatile organic liquid has a vapor pressure of
3252 3.45 kPa (0.5 psi) or more at 294.3 K (70 F), except as production, sampling,
3253 maintenance or inspection procedures require operator access.
3254

3255 (Source: Amended at 15 Ill. Reg. 8018, effective May 14, 1991)
3256

3257 **Section 215.482 Control of Air Dryers, Production Equipment Exhaust Systems and**
3258 **Filters**
3259

3260 a) The owner or operator of an air dryer or production equipment exhaust system
3261 used to manufacture pharmaceuticals shall control the emissions of volatile
3262 organic material from such emission sources by air pollution control equipment
3263 which reduces by 90 percent or more the volatile organic material that would
3264 otherwise be emitted into the atmosphere.
3265

3266 b) The owner or operator shall enclose all rotary vacuum filters and other filters used
3267 to manufacture pharmaceuticals and that have an exposed volatile organic liquid
3268 surface, where the volatile organic material in the volatile organic liquid has a
3269 vapor pressure of 3.45 kPa (0.5 psi) or more at 294.3 K (70 F), except as
3270 production, sampling, maintenance or inspection procedures require operator
3271 access.
3272

3273 (Source: Amended at 15 Ill. Reg. 8018, effective May 14, 1991)
3274

3275 **Section 215.483 Material Storage and Transfer**
3276

3277 The owner or operator of a pharmaceutical manufacturing plant shall:
3278

3279 a) Provide a vapor balance system that is at least 90.0 percent effective in reducing
3280 volatile organic material emissions from truck or railcar deliveries to storage
3281 tanks with capacities equal to or greater than 7.57m (2,000 gallons) that store
3282 volatile organic liquids with vapor pressures greater than 28.0 kPa (4.1 psi) at
3283 294.3 K (70 F); and
3284

3285 b) Install, operate and maintain pressure/vacuum conservation vents set at 0.2 kPa
3286 (0.03 psi) or greater on all storage tanks that store volatile organic liquids with
3287 vapor pressures greater than 10 kPa (1.5 psi) at 294.3 K (70 F).
3288

3289 (Source: Amended at 15 Ill. Reg. 8018, effective May 14, 1991)
3290

3291 **Section 215.484 In-Process Tanks**

3292

3293 The owner or operator shall install covers on all in-process tanks used to manufacture
3294 pharmaceuticals and containing a volatile organic liquid at any time. These covers must remain
3295 closed, except as production, sampling, maintenance, or inspection procedures require operator
3296 access.

3297

3298 (Source: Amended at 15 Ill. Reg. 8018, effective May 14, 1991)

3299

3300 **Section 215.485 Leaks**

3301

3302 The owner or operator of a pharmaceutical manufacturing plant shall repair any component from
3303 which a leak of volatile organic liquid can be observed. The repair shall be completed as soon as
3304 practicable but no later than 15 days after the leak is found. If the leaking component cannot be
3305 repaired until the process unit is shut down, the leaking component must then be repaired before
3306 the unit is restarted.

3307

3308 (Source: Added at 12 Ill. Reg. 7650, effective April 11, 1988)

3309

3310 **Section 215.486 Other Emission Sources**

3311

3312 The owner or operator of a washer, laboratory hood, tablet coating operation, mixing operation,
3313 or any other process emission source not subject to Section 215.481 through 215.485 of this
3314 Subpart, and used to manufacture pharmaceuticals shall control the emissions of volatile organic
3315 material from such emission sources by:

3316

3317 a) Air pollution control equipment which reduces by 81 percent or more the volatile
3318 organic material that would otherwise be emitted to the atmosphere, or

3319

3320 b) A surface condenser which captures all the volatile organic material which would
3321 otherwise be emitted to the atmosphere and which meets the requirements of
3322 Section 215.481(a) of this Subpart.

3323

3324 (Source: Amended at 15 Ill. Reg. 8018, effective May 14, 1991)

3325

3326 **Section 215.487 Testing**

3327

3328 a) Upon reasonable request by the Agency, the owner or operator of any volatile
3329 organic material emission source subject to this Subpart or exempted from this
3330 Subpart by provisions of Section 215.480(a), (b) or (c) shall, at his own expense,
3331 demonstrate compliance to the Agency by methods or procedures listed in Section
3332 215.487(c); and

3333

3334 b) A person planning to conduct a volatile organic material emissions test to
3335 demonstrate compliance with or determine applicability of provisions of this
3336 Subpart shall notify the Agency of that intent to test not less than 30 calendar days

3337 prior to the planned initiation of the test.

3338

3339 c) Test procedures to determine compliance with and applicability of this Subpart
3340 are in 40 CFR Part 60, Appendix A, incorporated by reference at Section 215.105,
3341 and shall be used as delineated below:

3342

3343 1) 40 CFR 60, Appendix A, Methods 18, 25 or 25A, as appropriate to the
3344 conditions at the site, shall be used to determine VOM concentration.
3345 Method selection shall be based on consideration of the diversity of
3346 organic species present and their total concentration and on consideration
3347 of the potential presence of interfering gases. Except as indicated in
3348 subsections (c)(1)(A) and (c)(1)(B), the test shall consist of three separate
3349 runs, each lasting a minimum of 60 minutes, unless the Agency
3350 determines that process variables dictate shorter sampling times.

3351

3352 A) When the method is to be used to determine the efficiency of a
3353 fixed-bed carbon adsorption system with a common exhaust stack
3354 for all the individual adsorber vessels, the test shall consist of three
3355 separate runs, each coinciding with one or more complete
3356 sequences through the adsorption cycles of all the individual
3357 adsorber vessels.

3358

3359 B) When the method is to be used to determine the efficiency of a
3360 fixed-bed carbon adsorption system with individual exhaust stacks
3361 for each adsorber vessel, each adsorber vessel shall be tested
3362 individually. The test for each adsorber vessel shall consist of three
3363 separate runs. Each run shall coincide with one or more complete
3364 adsorption cycles.

3365

3366 2) 40 CFR Part 60, Appendix A, Method 1 or 1A shall be used for sample
3367 and velocity traverses.

3368

3369 3) 40 CFR Part 60, Appendix A, Method 2, 2A, 2C or 2D shall be used for
3370 velocity and volumetric flow rates.

3371

3372 4) 40 CFR Part 60, Appendix A, Method 3 shall be used for gas analysis.

3373

3374 5) 40 CFR Part 60, Appendix A, Method 4 shall be used for stack gas
3375 moisture.

3376

3377 6) 40 CFR Part 60, Appendix A, Methods 2, 2A, 2C, 2D, 3 and 4 shall be
3378 performed, as applicable, at least twice during each test run.

3379

3380 d) This section shall not affect the authority of the U.S. Environmental Protection
3381 Agency under Section 114 of the Clean Air Act.

3382

3383 (Source: Amended at 15 Ill. Reg. 8018, effective May 14, 1991)

3384

3385 **Section 215.488 Monitors for Air Pollution Control Equipment**

3386

3387 a) At a minimum, continuous monitors for the following parameters shall be
3388 installed on air pollution control equipment subject to this Subpart:

3389

3390 1) Destruction device combustion temperature;

3391

3392 2) Temperature rise across a catalytic afterburner bed;

3393

3394 3) Breakthrough of volatile organic material on a carbon adsorption unit;

3395

3396 4) Outlet gas temperature of a refrigerated condenser;

3397

3398 5) Temperature of a non-refrigerated condenser coolant supply system.

3399

3400 b) Each monitor shall be equipped with a recording device.

3401

3402 c) Each monitor shall be calibrated quarterly.

3403

3404 d) Each monitor shall operate at all times while the associated control equipment is
3405 operating.

3406

3407 (Source: Amended at 15 Ill. Reg. 8018, effective May 14, 1991)

3408

3409 **Section 215.489 Recordkeeping (Renumbered)**

3410

3411 a) The owner or operator of a pharmaceutical manufacturing plant shall maintain the
3412 following records:

3413

3414 1) The parameters listed in Section 215.488 shall be recorded.

3415

3416 2) For sources subject to Section 215.482, the vapor pressure of the volatile
3417 organic material being controlled shall be recorded for every process.

3418

3419 b) For any leak subject to Section 215.485 which cannot be readily repaired within
3420 one hour after detection, the following records shall be kept:

3421

3422 1) The name of the leaking equipment.

3423

3424 2) The date and time the leak is detected.

3425

3426 3) The action taken to repair the leak.

3427

3428 4) The date and time the leak is repaired.

3429
3430
3431
3432
3433
3434
3435
3436
3437
3438
3439
3440
3441
3442
3443
3444
3445
3446
3447
3448
3449
3450
3451
3452
3453
3454
3455
3456
3457
3458
3459
3460
3461
3462
3463
3464
3465
3466
3467
3468
3469
3470
3471
3472
3473
3474

- c) The following records shall be kept for emission sources subject to Section 215.484 which contain volatile organic liquid:
 - 1) For maintenance and inspection:
 - A) The date and time each cover is opened.
 - B) The length of time the cover remains open.
 - C) The reason why the cover is opened.
 - 2) For production and sampling, written procedures or manufacturing directions specifying the circumstances under which covers may be opened and the procedures for opening covers.
- d) For each emission source used in manufacture of pharmaceuticals for which the owner or operator of a pharmaceutical manufacturing plant claims emission standards are not applicable because the emissions are below the applicability cutoff in Section 215.480(a) or (b), the owner or operator shall:
 - 1) Maintain a demonstration, including detailed engineering calculations, of the maximum daily and annual emissions for each such emission source showing that the emissions are below the applicability cutoffs in Section 215.480(a) or (b), as appropriate, for the current and prior calendar years;
 - 2) Maintain operating records for each emission source to identify whether the cutoffs in Section 215.480(a) or (b), as appropriate, are ever exceeded; and
 - 3) Provide written notification to the Agency within 30 days of a determination that such an emissions source has exceeded the applicability cutoff of Section 215.480(a) or (b), as appropriate.
- e) Records required under this section shall be maintained by the owner or operator for a minimum of two years after the date on which they are made.
- f) Copies of the records shall be made available to the Agency upon verbal or written request.

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

Section 215.490 Compliance Schedule (Renumbered)

- a) The owner or operator of an emission source subject to this Subpart, the

3475 construction or modification of which has commenced prior to (the effective date
3476 of these amendments), must complete on-site construction, modification or
3477 installation of the emission control and/or process equipment or complete any
3478 necessary production process changes so as to operate in compliance with this
3479 Subpart by April 30, 1991.

3480
3481 b) The owner and operator of any emission source subject to this Subpart, the
3482 construction or modification of which has not commenced prior to (the effective
3483 date of these amendments), shall construct such source so that it will operate in
3484 compliance with this Subpart.

3485
3486 (Source: Renumbered from Section 215.489 and amended at 15 Ill. Reg. 8018, effective
3487 May 14, 1991)

3488
3489 **SUBPART U: COKE MANUFACTURE AND**
3490 **BY-PRODUCT RECOVERY**

3491
3492 **Section 215.500 Exceptions**

3493
3494 The provisions of Subpart K shall not apply to coke by-product recovery plant.

3495
3496 (Source: Added at 9 Ill. Reg. 13960, effective August 28, 1985)

3497
3498 **Section 215.510 Coke By-Product Recovery Plants**

3499
3500 The owner or operator of a coke by-product recovery plant shall reduce the uncontrolled
3501 emissions of volatile organic materials by at least 85 percent from the following sources, as
3502 defined:

3503
3504 a) Tar decanter, which is a rectangular vessel used to separate tar and flushing liquor
3505 by means of gravity;

3506
3507 b) Light oil sump, which receives wastewater from process equipment from the light
3508 oil recovery portion of a coke by-product recovery plant;

3509
3510 c) Light oil condensor/separator, which is a device used to condense or separate light
3511 oil from which the non-condensable constituents are vented; and

3512
3513 d) Tar condensate sump, which receives water condensate streams from the tar
3514 recovery process equipment.

3515
3516 (Source: Added at 9 Ill. Reg. 13960, effective August 28, 1985)

3517
3518 **Section 215.512 Coke By-Product Recovery Plant Leaks**

3519
3520 a) The owner or operator of a coke by-product recovery plant shall conduct a visual

3521 inspection program designed to detect, identify, and facilitate repair of leaks from
3522 components in light oil liquid service. Components servicing coke oven gas lines,
3523 operating flare headers or vapor recovery devices (including pressure relief
3524 devices) are exempt from the inspection program.

- 3525
3526 b) In conducting such a program, the owner or operator of a coke by-product
3527 recovery plant shall:
- 3528
3529 1) Develop and conduct a weekly inspection program consistent with the
3530 provisions of Section 215.513.
 - 3531
3532 2) Record all visible leaking components in light oil liquid service and
3533 identify each component observed leaking consistent with the provisions
3534 of Section 215.513.
 - 3535
3536 3) Repair the leaking components as soon as practicable, but no later than 21
3537 days after the leak is discovered unless the leaking component cannot be
3538 required until the unit is shut down or until parts needed to correct the leak
3539 are available.

3540
3541 (Source: Added at 9 Ill. Reg. 13960, effective August 28, 1985)

3542
3543 **Section 215.513 Inspection Program**

3544
3545 The owner or operator shall prepare and conduct an inspection program which, at a minimum,
3546 shall require the owner or operator to:

- 3547
- 3548 a) Observe visually for leaks from all components subject to Section 215.512 on a
3549 weekly basis;
 - 3550
3551 b) Identify all leaking components so that they are obvious and can be located by
3552 plant personnel performing visual inspections and Agency personnel performing
3553 inspections; and
 - 3554
3555 c) Record in the monitoring log, the information for each leaking component as
3556 required by the provisions of Sections 215.514

3557
3558 (Source: Added at 9 Ill. Reg. 13960, effective August 28, 1985)

3559
3560 **Section 215.514 Recordkeeping Requirements**

- 3561
- 3562 a) The owner or operator of a coke by-product recovery plant shall maintain a
3563 monitoring log that shall contain, at a minimum, the following information for
3564 each component found leaking:

- 3565
- 3566 1) The name of the process unit where the observed leaking component is

- 3567 located;
- 3568
- 3569 2) Identification of the type of component (e.g., valve, seal);
- 3570
- 3571 3) The date on which the leaking component is first observed;
- 3572
- 3573 4) The date on which a leaking component is repaired;
- 3574
- 3575 5) Identification of the type of leaking components which cannot be repaired
- 3576 until unit shutdown; and
- 3577
- 3578 6) Identification of component leaks which are not repaired within 21 days
- 3579 after discovery because of the unavailability of replacement parts,
- 3580 including the date the repair part was ordered and the date the repair part
- 3581 was received.
- 3582
- 3583 b) The monitoring log shall be retained by the owner or operator for a minimum of
- 3584 two years after the date on which the record was made.
- 3585
- 3586 c) Copies of the monitoring log shall be made available to the Agency upon verbal
- 3587 or written request at a reasonable time.
- 3588

3589 (Source: Added at 9 Ill. Reg. 13960, effective August 28, 1985)

3590

3591 **Section 215.515 Reporting Requirements**

3592

3593 The owner or operator of a coke by-product recovery plant shall submit to the Agency, prior to

3594 the first day of May and August of each year, a signed statement attesting that all monitoring and

3595 repairs were performed as required under Section 215.512.

3596

3597 (Source: Added at 9 Ill. Reg. 13960, effective August 28, 1985)

3598

3599 **Section 215.516 Compliance Dates**

3600

3601 The owner or operator of an emission source subject to:

3602

- 3603 a) Section 215.510 shall comply with the Section by December 31, 1986;
- 3604
- 3605 b) Sections 215.512 through 215.514 shall comply with those Sections by December
- 3606 31, 1985.
- 3607

3608 (Source: Added at 9 Ill. Reg. 13960, effective August 28, 1985)

3609

3610 **Section 215.517 Compliance Plan**

3611

3612 ~~The owner or operator of a facility or emission source subject to this Subpart shall submit to the~~

3613 ~~Agency, a compliance plan and project completion schedule for:~~

3614
3615 ~~a) Section 215.510 by August 31, 1986;~~

3616
3617 ~~b) Section 215.514 by October 31, 1985.~~

3618
3619 (Source: Added at 9 Ill. Reg. 13960, effective August 28, 1985)

3620
3621 **SUBPART V: AIR OXIDATION PROCESSES**

3622
3623 **Section 215.520 Applicability**

3624
3625 This Subpart applies to plants using air oxidation processes which are located in any of the
3626 following counties: Will, McHenry, Cook, DuPage, Lake, Kane, Madison, St. Clair, Macoupin
3627 and Monroe.

3628
3629 (Source: added at 11 Ill. Reg. 20829, effective December 14, 1987)

3630
3631 **Section 215.521 Definitions**

3632
3633 In addition to the definitions of 35 Ill. Adm. Code 211, the following definitions apply to this
3634 Subpart:

3635
3636 "Air Oxidation Process": any unit process including amnoxidation and
3637 oxychlorination which uses air or a combination of air and oxygen as an oxidant
3638 in combination with one or more organic reactants to produce one or more
3639 organic compounds.

3640
3641 "Cost Effectiveness": the annual expense for cost of control of a given process
3642 stream divided by the reduction in emissions of organic material of that stream.

3643
3644 "Flow (F)": Vent stream flowrate (scm/min) at a standard temperature of 20°C.

3645
3646 "Full Operating Flowrate": Maximum operating capacity of the facility.

3647
3648 "Hourly Emissions (E)": Hourly emissions reported in kg/hr measured at full
3649 operating flowrate.

3650
3651 "Net Heating Value (H)": Vent stream net heating value (MJ/scm), where the net
3652 enthalpy per mole of offgas is based on combustion at 25° C and 760 mm Hg, but
3653 the standard temperature for determining the volume corresponding to one mole is
3654 20° C, as in the definition of "Flow."

3655
3656 "Process Vent Stream": an emission stream resulting from an air oxidation
3657 process.

3658

3659 "Total Resource Effectiveness Index (TRE)": Cost effectiveness in dollars per
3660 megagram of controlling any gaseous stream vented to the atmosphere from an air
3661 oxidation process divided by \$1600/Mg, using the criteria and methods set forth
3662 in this Subpart and Appendices E and F.
3663

3664 (Source: Added at 11 Ill. Reg. 20829, effective December 14, 1987)
3665

3666 **Section 215.525 Emission Limitations for Air Oxidation Processes**
3667

- 3668 a) No person shall cause or allow the emission of volatile organic material (VOM)
3669 from any process vent stream unless the process vent stream is vented to a
3670 combustion device which is designed and operated either:
3671
- 3672 1) To reduce the volatile organic emissions vented to it with an efficiency of
3673 at least ninety eight percent (98%) by weight; or
3674
 - 3675 2) To emit volatile organic material at a concentration less than twenty parts
3676 per million by volume, dry basis.
3677
- 3678 b) Air oxidation facilities for which an existing combustion device is employed to
3679 control process VOM emissions are not required to meet the 98 percent emissions
3680 limit until the combustion device is replaced for other reasons, which shall be
3681 considered to include, but not be limited to, normal maintenance, malfunction,
3682 accident, and obsolescence. The combustion device is considered to be replaced
3683 when:
3684
- 3685 1) All of the device is replaced; or
3686
 - 3687 2) When the cost of the repair of the device or the cost of replacement of part
3688 of the device exceeds 50% of the cost of replacing the entire device with a
3689 device which complies.
3690
- 3691 c) The limitations of subsection (a) do not apply to any process vent stream or
3692 combination of process vent streams which has a Total Resource Effectiveness
3693 Index (TRE) greater than 1.0, as determined by the following methods:
3694
- 3695 1) If an air oxidation process has more than one process vent stream, TRE
3696 shall be based upon a combination of the process vent stream.
3697
 - 3698 2) TRE of a process vent stream shall be determined according to the
3699 following equation:
3700

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

3701 where:

- 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.

3702
3703
3704
3705
3706

- 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:

$$F' = FH / 3.6$$

3707
3708
3709

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

3710
3711
3712
3713
3714
3715
3716
3717
3718
3719

- 4) The actual numerical values used in the equation described in subsection (c)(2) shall be determined as follows:
- 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.
- B) All coefficients described in subsection (c)(2) shall be in accordance with Appendix F.

3720
3721

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

3722
3723

Section 215.526 Testing and Monitoring

3724
3725
3726
3727
3728
3729
3730
3731
3732

- 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 [CleanClear](#) Air Act, to require demonstrations of compliance.
- 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

3733 may observe the test.

3734

3735 (Source: Added at 11 Ill. Reg. 20829, effective December 14, 1987)

3736

3737 **Section 215.527 Compliance Date**

3738

3739 Each owner or operator of an emission source subject to this Subpart shall comply with the
3740 standards and limitations of this Subpart by December 31, 1987.

3741

3742 (Source: Added at 11 Ill. Reg. 20829, effective December 14, 1987)

3743

3744 **SUBPART W: AGRICULTURE**

3745

3746 **Section 215.541 Pesticide Exception**

3747

3748 The provisions of Sections 215.301 and 215.302 shall not apply to the spraying or use of
3749 insecticides, herbicides or other pesticides.

3750

3751 (Source: Added at 3 Ill. Reg. 30, p. 124, effective July 28, 1979)

3752

3753 **SUBPART X: CONSTRUCTION**

3754

3755 **Section 215.561 Architectural Coatings**

3756

3757 No person shall cause or allow the sale or use in the Chicago or St. Louis (Illinois) major
3758 metropolitan areas of any architectural coating containing more than 20 percent by volume of
3759 photochemically reactive material in containers having a capacity of more than one gallon.

3760

3761 (Source: Amended at 3 Ill. Reg. 30, p. 124, effective July 28, 1979)

3762

3763 **Section 215.562 Paving Operations**

3764

3765 The provisions of Sections 215.301 and 215.302 shall not apply to the application of paving
3766 asphalt and pavement marking paint from sunrise to sunset.

3767

3768 (Source: Amended at 3 Ill. Reg. 30, p. 124, effective July 28, 1979)

3769

3770 **Section 215.563 Cutback Asphalt**

3771

3772 a) No person shall cause or allow the use or application of cutback asphalt for
3773 paving, resurfacing, reconditioning, repairing or otherwise maintaining a roadway
3774 unless:

3775

3776 1) The use or application of the cutback asphalt commences on or after
3777 October 1 of any year and such use or application is completed by April
3778 30 of the following year; or

- 3779
3780
3781
3782
3783
3784
3785
3786
3787
3788
3789
- 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
 - 3) The cutback asphalt is to be used solely as an asphalt prime coat.
- b) Sources subject to this section are not required to submit or obtain an Agency approved compliance plan or project completion schedule under 35 Ill. Adm. Code 201, Subpart H.

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

3791
3792
3793

SUBPART Y: GASOLINE DISTRIBUTION

3794

Section 215.581 Bulk Gasoline Plants

- 3795
3796
3797
3798
3799
3800
3801
3802
3803
3804
3805
3806
3807
3808
3809
3810
3811
3812
3813
3814
3815
3816
3817
3818
3819
3820
3821
3822
3823
3824
- a) Subject to subsection (e), no person may cause or allow the transfer of gasoline from a delivery vessel into a stationary storage tank located at a bulk gasoline plant unless:
 - 1) The delivery vessel and the stationary storage tank are each equipped with a vapor collection system that meets the requirements of subsection (d)(4);
 - 2) Each vapor collection system is operating;
 - 3) The delivery vessel displays the appropriate sticker pursuant to the requirements of Section 215.584(b) or (d);
 - 4) The pressure relief valve(s) on the stationary storage tank and the delivery vessel are set to release at no less than 0.7 psi or the highest pressure allowed by state or local fire codes or the guidelines of the National Fire Prevention Association; and
 - 5) The stationary storage tank is equipped with a submerged loading pipe.
 - b) Subject to subsection (f), no person may cause or allow the transfer of gasoline from a stationary storage tank located at a bulk gasoline plant into a delivery vessel unless:
 - 1) The requirements set forth in subsections (a)(1) through (a)(4) are met; and
 - 2) Equipment is available at the bulk gasoline plant to provide for the submerged filling of the delivery vessel or the delivery vessel is equipped for bottom loading.

3825
3826
3827
3828
3829
3830
3831
3832
3833
3834
3835
3836
3837
3838
3839
3840
3841
3842
3843
3844
3845
3846
3847
3848
3849
3850
3851
3852
3853
3854
3855
3856
3857
3858
3859
3860
3861
3862
3863
3864
3865
3866
3867
3868
3869
3870

- c) Subject to subsection (e), each owner of a stationary storage tank located at a bulk gasoline plant shall:
 - 1) Equip each stationary storage tank with a vapor control system that meets the requirements of subsection (a) or (b), whichever is applicable;
 - 2) Provide instructions to the operator of the bulk gasoline plant describing necessary maintenance operations and procedures for prompt notification of the owner in 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 (e), each operator of a bulk gasoline plant 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; and
 - 3) Maintain gauges, meters or other specified testing devices in proper working order;
 - 4) Operate the bulk plant vapor collection system and gasoline loading equipment in a manner that prevents:
 - A) Gauge pressure from exceeding 18 inches of water and vacuum from exceeding 6 inches of water, as measured as close as possible to the vapor hose connection; and
 - B) A reading equal to or greater than 100 percent of the lower explosive limit (LEL measured as propane) when tested in accordance with the procedure described in EPA 450/2-78-051 Appendix B; and
 - C) Avoidable leaks of liquid during loading or unloading operations.
 - 5) Provide a pressure tap or equivalent on the bulk plant vapor collection system in order to allow the determination of compliance with 215.581(d)(4)(A); and
 - 6) Within 15 business days after discovery of the leak by the owner, operator, or the Agency, repair and retest a vapor collection system which exceeds

- 3871 the limits of subsection (d)(4)(A) or (B).
3872
3873 e) The requirements of subsection (a), (c) and (d) shall not apply to:
3874
3875 1) Any stationary storage tank with a capacity of less than 575 gallons; or
3876
3877 2) Any bulk gasoline plant whose annual gasoline throughput is less than
3878 350,000 gallons as averaged over the preceding three calendar years.
3879
3880 f) The requirements of subsection (b) shall only apply to bulk gasoline plants:
3881
3882 1) That have an annual gasoline throughput greater than or equal to
3883 1,000,000 gallons, as averaged over the preceding three calendar years;
3884 and
3885
3886 2) That either distribute gasoline to gasoline dispensing facilities subject to
3887 the requirements of Section 215.583(a)(2), 35 Ill. Adm. Code
3888 218.583(b)(2) or 35 Ill. Adm. Code 219.583(a)(2) or that are located in the
3889 following counties: Boone, Peoria, Rock Island, Tazewell or Winnebago.
3890
3891 g) Bulk gasoline plants were required to take certain actions to achieve compliance
3892 which are summarized in Appendix C.
3893

3894 (Source: Amended at 15 Ill. Reg. 12217, effective August 19, 1991)
3895

3896 **Section 215.582 Bulk Gasoline Terminals**
3897

- 3898 a) No person shall cause or allow the transfer of gasoline into any delivery vessel
3899 from any bulk gasoline terminal unless:
3900
3901 1) The bulk gasoline terminal is equipped with a vapor control system that
3902 limits emission of volatile organic material to 80 mg/1 (0.00067 lbs/gal) of
3903 gasoline loaded;
3904
3905 2) The vapor control system is operating and all vapors displaced in the
3906 loading of gasoline to the delivery vessel are vented only to the vapor
3907 control system;
3908
3909 3) There is no liquid drainage from the loading device when it is not in use;
3910
3911 4) All loading and vapor return lines are equipped with fittings which are
3912 vapor tight; and
3913
3914 5) The delivery vessel displays the appropriate sticker pursuant to the
3915 requirements of Section 215.584(b) or (d); or, if the terminal is driver-
3916 loaded, the terminal owner or operator shall be deemed to be in

3917 compliance with this section when terminal access authorization is limited
3918 to those owners and/or operators of delivery vessels who have provided a
3919 current certification as required by Section 215.584(c)(3).
3920

- 3921 b) Bulk gasoline terminals were required to take certain actions to achieve
3922 compliance which are summarized in Appendix C.
3923
- 3924 c) The operator of a bulk gasoline terminal shall:
3925
- 3926 1) Operate the terminal vapor collection system and gasoline loading
3927 equipment in a manner that prevents:
 - 3928 A) Gauge pressure from exceeding 18 inches of water and vacuum
3929 from exceeding 6 inches of water as measured as close as possible
3930 to the vapor hose connection; and
 - 3931 B) A reading equal to or greater than 100 percent of the lower
3932 explosive limit (LEL measured as propane) when tested in
3933 accordance with the procedure described in EPA 450/2-78-051
3934 Appendix B; and
 - 3935 C) Avoidable leaks of liquid during loading or unloading operations.
3936
 - 3937 2) Provide a pressure tap or equivalent on the terminal vapor collection
3938 system in order to allow the determination of compliance with
3939 215.582(d)(1)(A); and
 - 3940 3) Within 15 business days after discovery of the leak by the owner, operator,
3941 or the Agency repair and retest a vapor collection system which exceeds
3942 the limits of subsection (d)(1)(A) or (B).
3943

3944 (Source: Amended at 14 Ill. Reg. 9173, effective May 23, 1990)
3945

3946 ~~SUBPART Y: GASOLINE DISTRIBUTION~~
3947

3948 **Section 215.583 Gasoline Dispensing Facilities - Storage Tank Filling Operations**
3949

- 3950 a) Subject to subsection (b) below, no person shall cause or allow the transfer of
3951 gasoline from any delivery vessel into any stationary storage tank at a gasoline
3952 dispensing facility unless:
3953
- 3954 1) The tank is equipped with a submerged loading pipe; and
 - 3955 2) The vapors displaced from the storage tank during filling are processed by
3956 a vapor control system that includes one or more of the following:
3957

- 3963
3964
3965
3966
3967
3968
3969
3970
3971
3972
3973
- A) A vapor collection system that meets the requirements of subsection (d)(4) below; or
 - B) A refrigeration-condensation system or any other system approved by the Agency that recovers at least 90 percent by weight of all vaporized organic material from the equipment being controlled; and
 - C) The delivery vessel displays the appropriate sticker pursuant to the requirements of Section 215.584(b) or (d) of this Part.
- 3974 b) The requirements of subsection (a)(2) above shall not apply to transfers of
3975 gasoline to a stationary storage tank at a gasoline dispensing facility if:
3976
- 1) The tank is equipped with a floating roof or other system of equal or better
3977 emission control as approved by the Agency;
3978
 - 2) The tank has a capacity of less than 2000 gallons and is in place and
3979 operating before January 1, 1979;
3980
 - 3) The tank has a capacity of less than 575 gallons; or
3981
 - 4) The tank is not located in any of the following counties: Boone, Cook,
3982 DuPage, Kane, Lake, Madison, McHenry, Peoria, Rock Island, St. Clair,
3983 Tazewell, Will or Winnebago.
3984
- 3985
3986
3987
3988
- 3989 c) Subject to subsection (b) above, each owner of a gasoline dispensing facility
3990 shall:
3991
- 1) Install all control systems and make all process modifications required by
3992 subsection (a) above;
3993
 - 2) Provide instructions to the operator of the gasoline dispensing facility
3994 describing necessary maintenance operations and procedures for prompt
3995 notification of the owner in the case of any malfunction of a vapor control
3996 system; and
3997
 - 3) Repair, replace or modify any worn out or malfunctioning component or
3998 element of design.
3999
- 4000
4001
4002
- 4003 d) Subject to subsection (b) above, each operator of a gasoline dispensing facility
4004 and each delivery vessel operator shall:
4005
- 1) Maintain and operate each vapor control system in accordance with the
4006 owner's instructions;
4007
- 4008

- 4009 2) Promptly notify the owner of any scheduled maintenance or malfunction
4010 requiring replacement or repair of a major component of a vapor control
4011 system;
4012
- 4013 3) Maintain gauges, meters or other specified testing devices in proper
4014 working order;
4015
- 4016 4) Operate the vapor collection system and delivery vessel unloading points
4017 in a manner that prevents:
4018
- 4019 A) A reading equal to or greater than 100 percent of the lower
4020 explosive limit (LEL measured as propane) when tested in
4021 accordance with the procedure described in EPA 450/2-78-051
4022 Appendix B, and
4023
- 4024 B) Avoidable leaks of liquid during the filling of storage tanks; and
4025
- 4026 5) Within 15 business days after discovery of the leak by the owner, operator,
4027 or the Agency, repair and retest a vapor collection system which exceeds
4028 the limits of subsection (d)(4)(A) above.
4029
- 4030 e) Gasoline dispensing facilities were required to take certain actions to achieve
4031 compliance which are summarized in Appendix C of this Part.
4032

4033 (Source: Amended at 16 Ill. Reg. 13849, effective August 24, 1992)
4034

4035 **Section 215.584 Gasoline Delivery Vessels**
4036

- 4037 a) Any delivery vessel equipped for vapor control by use of vapor collection
4038 equipment:
4039
- 4040 1) Shall have a vapor space connection that is equipped with fittings which
4041 are vapor tight;
4042
- 4043 2) Shall have its hatches closed at all times during loading or unloading
4044 operations, unless a top loading vapor recovery system is used;
4045
- 4046 3) Shall not internally exceed a gauge pressure of 18 inches of water or a
4047 vacuum of 6 inches of water;
4048
- 4049 4) Shall be designed and maintained to be vapor tight at all times during
4050 normal operations;
4051
- 4052 5) Shall not be refilled in Illinois at other than:
4053
- 4054 A) A bulk gasoline terminal that complies with the requirements of

- 4055 Section 215.582 or
4056
4057 B) A bulk gasoline plant that complies with the requirements of
4058 Section 215.581(b)(1) and (2).
4059
4060 6) Shall be tested annually in accordance with Method 27, 40 CFR 60,
4061 Appendix A, incorporated by reference in Section 215.105. Each vessel
4062 must be repaired and retested with 15 business days after discovery of the
4063 leak by the owner, operator, or the Agency, when it fails to sustain:
4064
4065 A) A pressure drop of no more than three inches of water in five
4066 minutes; and
4067
4068 B) A vacuum drop of no more than three inches of water in five
4069 minutes.
4070
4071 b) Any delivery vessel meeting the requirements of subsection (a) shall have a
4072 sticker affixed to the tank adjacent to the tank manufacturer's data plate which
4073 contains the tester's name, the tank identification number and the date of the test.
4074 The sticker shall be in a form prescribed by the Agency, and shall be displayed no
4075 later than December 31, 1987.
4076
4077 c) The owner or operator of a delivery vessel shall:
4078
4079 1) Maintain copies of any test required under subsection (a)(6) for a period of
4080 3 years;
4081
4082 2) Provide copies of these tests to the Agency upon request; and
4083
4084 3) Provide annual test result certification to bulk gasoline plants and
4085 terminals where the delivery vessel is loaded.
4086
4087 d) Any delivery vessel which has undergone and passed a test in another state which
4088 has a USEPA-approved leak testing and certification program will satisfy the
4089 requirements of subsection (a). Delivery vessels must display a sticker, decal or
4090 stencil approved by the state where tested or comply with the requirements of
4091 subsection (b). All such stickers, decals or stencils shall be displayed no later
4092 than December 31, 1987.
4093

4094 (Source: Amended at 14 Ill. Reg. 9173, effective May 23, 1990)

4095
4096 **Section 215.585 Gasoline Volatility Standards (Repealed)**

4097
4098 (Source: Repealed at 37 Ill. Reg. 1683, effective January 28, 2013)

4099
4100 **Section 215.586 Emissions Testing**

- 4101
4102 a) Any tests of organic material emissions from bulk gasoline terminals, including
4103 tests conducted to determine control equipment efficiency or control device
4104 destruction efficiency, shall be conducted in accordance with the Test Methods
4105 and Procedures for the Standards of Performance for Bulk Gasoline Terminals, 40
4106 CFR 60.503, incorporated by reference in Section 215.105. Any alternate test
4107 method must be approved by the Agency, which shall consider data comparing
4108 the performance of the proposed alternative to the performance of the approved
4109 ~~test~~ method(s). If the Agency determines that such data demonstrates the ~~the~~
4110 proposed alternative will achieve results equivalent ~~to~~ the approved test
4111 method(s), the Agency shall approve the proposed alternative.
4112
4113 b) Upon a reasonable request by the Agency, the owner or operator of a volatile
4114 organic material emission source subject to this Subpart shall conduct emissions
4115 testing, at such person's own expense, to demonstrate compliance.
4116
4117 c) A person planning to conduct an organic material emissions test to demonstrate
4118 compliance with this Subpart shall notify the Agency of that intent not less than
4119 30 days before the planned initiation of the tests so the Agency may observe the
4120 test.

4121
4122 (Source: Added at 14 Ill. Reg. 9173, effective May 23, 1990)

4123
4124 **SUBPART Z: DRY CLEANERS**

4125
4126 **Section 215.601 Perchloroethylene Dry Cleaners (Repealed)**

4127
4128 (Source: Repealed at 22 Ill. Reg. 11427, effective June 19, 1998)

4129
4130 **Section 215.602 Exemptions (Repealed)**

4131
4132 (Source: Repealed at 22 Ill. Reg. 11427, effective June 19, 1998)

4133
4134 **Section 215.603 Leaks (Repealed)**

4135
4136 (Source: Repealed at 22 Ill. Reg. 11427, effective June 19, 1998)

4137
4138 **Section 215.604 Compliance Dates and Geographical areas (Repealed)**

4139
4140 (Source: Repealed at 22 Ill. Reg. 11427, effective June 19, 1998)

4141
4142 **Section 215.605 Compliance Plan (Repealed)**

4143
4144 (Source: Repealed at 22 Ill. Reg. 11427, effective June 19, 1998)

4145
4146 **Section 215.606 Exception to Compliance Plan (Repealed)**

4147
4148
4149
4150
4151
4152
4153
4154
4155
4156
4157
4158
4159
4160
4161
4162
4163
4164
4165
4166
4167
4168
4169
4170
4171
4172
4173
4174
4175
4176
4177
4178
4179
4180
4181
4182
4183
4184
4185
4186
4187
4188
4189
4190
4191
4192

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

~~SUBPART Z: DRY CLEANERS~~

Section 215.607 Standards for Petroleum Solvent Dry Cleaners

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

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

Section 215.608 Operating Practices for Petroleum Solvent Dry Cleaners

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

- a) General Housekeeping Requirements
 - 1) Equipment containing solvent (washers, dryers, extractors and filters) shall remain closed at all times except during load transfer and maintenance. Lint filter and button trap covers shall remain closed except when solvent-laden material is being removed.
 - 2) Cans, buckets, barrels and other containers of solvent or of solvent-laden material shall be covered except when in use.
 - 3) Solvent-laden material shall be exposed to the atmosphere only for the minimum time necessary for load transfer.

4193
4194
4195
4196
4197
4198
4199
4200
4201
4202
4203
4204
4205
4206
4207
4208
4209
4210
4211
4212
4213
4214
4215
4216
4217
4218
4219
4220
4221
4222
4223
4224
4225
4226
4227
4228
4229
4230
4231
4232
4233
4234
4235
4236
4237
4238

- b) Installation and operation of equipment
 - 1) All cartridge filters shall be installed and operated in accordance with the procedures and specifications recommended by the manufacturer for the cartridge filter. After installation, the cartridges shall be inspected, monitored and maintained in accordance with the manufacturer's recommendations; and
 - 2) Vents on containers for new solvent and for solvent-containing waste shall be constructed and maintained so as to minimize solvent vapor emissions. Criteria for the minimization of solvent vapor emissions include the elimination of solvent buckets and barrels standing open to the atmosphere, and the repair of gaskets and seals that expose solvent-rich environments to the atmosphere, to be determined through visual inspection.

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

Section 215.609 Program for Inspection and Repair of Leaks

- a) The owner or operator of a petroleum solvent dry cleaning facility shall conduct the following visual inspections on a weekly basis:
 - 1) Washers, dryers, solvent filters, settling tanks, vacuum stills and containers and conveyors of petroleum solvent shall be inspected for visible leaks of solvent liquid.
 - 2) Pipes, hoses and fittings shall be inspected for active dripping or dampness.
 - 3) Pumps and filters shall be inspected for leaks around seals and access covers.
 - 4) Gaskets and seals shall be inspected for wear and defects.
- b) Leaks of petroleum solvent liquid and vapors shall be repaired within three working days of detection, unless necessary replacement parts are not on site.
 - 1) If necessary, repair parts shall be ordered within three working days of detection of the leak.
 - 2) The leak shall be repaired within three days of delivery of necessary parts.

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

4239 **Section 215.610 Testing and Monitoring**

4240

4241 a) Compliance with Sections 215.607(b)(2), 215.608 and 215.609 shall be
4242 determined by visual inspection; and

4243

4244 b) Compliance with Sections 215.607(a)(2) and (b)(1) shall be determined by
4245 methods described in EPA-450/3-82-009 (1982) and does not include any later
4246 amendments or editions.

4247

4248 c) If a control device is used to comply with Section 215.607(a)(1), then compliance
4249 shall be determined using 40 CFR 60 Appendix A, Method 25 (1984) and does
4250 not include any later amendments or editions.

4251

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

4253

4254 **Section 215.611 Exemption for Petroleum Solvent Dry Cleaners**

4255

4256 The provisions of Sections 215.607 through 215.610 shall not apply to petroleum solvent dry
4257 cleaning facilities whose emissions of volatile organic material do not exceed 91 megagrams
4258 (100 tons) per year in the absence of pollution control equipment or whose emissions of volatile
4259 organic material, as limited by the operating permit, will not exceed 91 megagrams (100 tons)
4260 per year in the absence of pollution control equipment.

4261

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

4263

4264 **Section 215.612 Compliance Dates and Geographical Areas**

4265

4266 Owners and operators of emission sources located in the counties listed below shall comply with
4267 the requirements of Sections 215.607 through 215.609 as expeditiously as practicable but no
4268 later than December 31, 1987:

4269

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

4270

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

4272

4273 **Section 215.613 Compliance Plan**

4274

4275 ~~a) The owner or operator of an emission source subject to Section 215.610(a) shall~~
4276 ~~submit to the Agency a compliance plan, including a project completion schedule~~
4277 ~~where applicable, no later than May 31, 1987.~~

4278

4279 ~~b) The plan and schedule shall meet the requirements of 35 Ill. Adm. Code 201.~~

4280
4281
4282
4283
4284
4285
4286
4287
4288
4289
4290
4291
4292
4293
4294
4295
4296
4297
4298
4299
4300
4301
4302
4303
4304
4305
4306
4307
4308
4309
4310
4311
4312
4313
4314
4315
4316
4317
4318
4319
4320
4321
4322
4323
4324
4325

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

Section 215.614 Testing Method for Volatile Organic Material Content of Wastes

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

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

Section 215.615 Emissions Testing

- a) Any tests of volatile organic material emissions, including tests conducted to determine control equipment efficiency or control device destruction 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 a volatile organic material emissions source subject to this Subpart shall conduct emissions testing, at such person's own expense, to demonstrate compliance.
- c) 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 the Agency may observe the test.

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

SUBPART AA: PAINT AND INK MANUFACTURING

Section 215.620 Applicability

- a) This Subpart shall apply to the following counties: Cook, DuPage, Kane, Lake, Macoupin, Madison, McHenry, Monroe, St. Clair and Will.
- b) This Subpart shall apply to all paint and ink manufacturing plants which:
 - 1) include process emission sources not subject to Subparts B, E, F, N, P, Q, R, S, U, V, X, Y or Z of this Part, and which process emission sources as a group would emit 100 tons or more per year of volatile organic material if no air pollution control equipment were used, or

4326 2) produce more than 2,000,000 gallons per year of paints or ink
4327 formulations, which contain less than 10 percent, by weight, water, and
4328 ink formulations not containing as the primary solvents water, Magie oil,
4329 or glycol.

4330
4331 c) For the purposes of this Subpart, uncontrolled volatile organic material emissions
4332 are the emissions of volatile organic material which would result if no air
4333 pollution control equipment were used.

4334
4335 (Source: Added at 12 Ill. Reg. 7311, effective April 8, 1988)

4336
4337 **Section 215.621 Exemption for Waterbase Material and Heatset Offset Ink**

4338
4339 The requirements of Sections 215.624, 215.625 and 215.628(a) shall not apply to equipment
4340 while it is being used to produce paint or ink formulations which contain 10 percent or more, by
4341 weight, water, or inks containing Magie oil and glycol as the primary solvent.

4342
4343 (Source: Added at 12 Ill. Reg. 7311, effective April 8, 1988)

4344
4345 **Section 215.623 Permit Conditions**

4346
4347 No person shall violate any condition in a permit when the condition results in exclusion of the
4348 plant or an emission source from this Subpart.

4349
4350 (Source: Added at 12 Ill. Reg. 7311, effective April 8, 1988)

4351
4352 **Section 215.624 Open-top Mills, Tanks, Vats or Vessels**

4353
4354 No person shall operate an open-top mill, tank, vat or vessel, with a volume of more than 12
4355 gallons for the production of paint or ink unless:

4356
4357 a) The mill, tank, vat or vessel is equipped with a cover which completely covers the
4358 mill, tank, vat or vessel opening, except for an opening no larger than necessary to
4359 allow for safe clearance for a mixer shaft. Such cover shall extend at least ½ inch
4360 beyond the outer rim of the opening or be attached to the rim.

4361
4362 b) The cover remains closed, except when production, sampling, maintenance, or
4363 inspection procedures require access.

4364
4365 c) The cover is maintained in good condition, such that when in place, it maintains
4366 contact with the rim of the opening for at least 90% of the circumference of the
4367 rim.

4368
4369 (Source: Added at 12 Ill. Reg. 7311, effective April 8, 1988)

4370
4371 **Section 215.625 Grinding Mills**

4372

4373 a) No person shall operate a grinding mill for the production of paint or ink which is
4374 not maintained in accordance with the manufacturer's specifications.

4375

4376 b) No person shall operate a grinding mill fabricated or modified after the effective
4377 date of this Subpart which is not equipped with fully enclosed screens.

4378

4379 c) The manufacturer's specifications shall be kept on file at the plant by the owner or
4380 operator of the grinding mill and be made available to any person upon verbal or
4381 written request during business hours.

4382

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

4383

4384

4385 **Section 215.628 Leaks**

4386

4387 The owner or operator of a paint or ink manufacturing plant shall, for the purpose of detecting
4388 leaks, conduct an equipment monitoring program consistent with the following:

4389

4390 a) Each pump shall be checked by visual inspection each calendar week for
4391 indications of leaks, that is, liquids dripping from the pump seal. If there are
4392 indications of liquids dripping from the pump seal, the pump shall be repaired as
4393 soon as practicable, but no later than 15 calendar days after the leak is detected.

4394

4395 b) Any pump, valve, pressure relief valve, sampling connection, open-ended valve,
4396 and flange or connector containing a fluid which is at least 10 percent by weight
4397 volatile organic material which appears to be leaking on the basis of sight, smell,
4398 or sound shall be repaired as soon as practicable, but no later than 15 calendar
4399 days after the leak is detected.

4400

4401 c) A weather proof, readily visible tag, in bright colors such as red or yellow,
4402 bearing an identification number and the date on which the leak was detected
4403 shall be attached to leaking equipment. The tag may be removed upon repair, that
4404 is, when the equipment is adjusted or otherwise altered to allow operation without
4405 leaking.

4406

4407 d) When a leak is detected, the owner or operator shall record the date of detection
4408 and repair and the record shall be retained at the plant for at least 2 years from the
4409 date of each detection or each repair attempt. The record shall be made available
4410 to any person upon verbal or written request during ~~business~~business hours.

4411

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

4412

4413

4414 **Section 215.630 Clean Up**

4415

4416 a) No person shall clean paint or ink manufacturing equipment with organic solvent
4417 unless the equipment being cleaned is completely covered or enclosed except for

4418 an opening no larger than necessary to allow safe clearance for proper operation
4419 of the cleaning equipment, considering the method and materials being used.

4420
4421 b) No person shall store organic wash solvent in other than closed containers, unless
4422 closed containers are demonstrated to be a safety hazard, or dispose of organic
4423 wash solvent in a manner such that more than 20 percent by weight is allowed to
4424 evaporate into the atmosphere.

4425
4426 (Source: Added at 12 Ill. Reg. 7311, effective April 8, 1988)

4427
4428 **Section 215.636 Compliance Date**

4429
4430 Owners and operators of emission sources subject to this Subpart shall comply with its
4431 requirements by April 1, 1989.

4432
4433 (Source: Added at 12 Ill. Reg. 7311, effective April 8, 1988)

4434
4435 **SUBPART BB: POLYSTYRENE PLANTS**

4436
4437 **Section 215.875 Applicability of Subpart BB**

4438
4439 The provisions of this Subpart shall apply to polystyrene plants:

- 4440
- 4441 a) Which are located in any of the following counties: Will, McHenry, Cook,
4442 DuPage, Lake, Kane, Madison, St. Claire, Monroe and Macoupin;
 - 4443
 - 4444 b) Which use continuous processes to manufacture polystyrene – polybutadiene co-
4445 polymer; and
 - 4446
 - 4447 c) Which fall within Standard Industrial Classification Group No. 282, Industry No.
4448 2821, except that the manufacture of polystyrene resins need not be the primary
4449 manufacturing process at the plant.

4450
4451 (Source: Added at 11 Ill. Reg. 16706, effective September 30, 1987)

4452
4453 **Section 215.877 Emissions Limitation at Polystyrene Plants**

4454
4455 No person shall cause or allow the emissions of volatile organic material from the material
4456 recovery section to exceed 0.12 kg of Volatile Organic Material per 1000 kg of polystyrene resin
4457 produced.

4458
4459 (Source: Added at 11 Ill. Reg. 16706, effective September 30, 1987)

4460
4461 **Section 215.879 Compliance Date**

4462
4463 Every owner and operator of an emission source subject to this Subpart shall comply with its

4464 standards and limitations by December 31, 1987.

4465

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

4467

4468 **Section 215.881 Compliance Plan**

4469

4470 ~~a) The owner or operator of an emission source subject to the requirements of this~~
4471 ~~Subpart shall submit to the Agency a compliance plan in accordance with 35 Ill.~~
4472 ~~Adm. Code 201. Subpart H, including a project completion schedule on or before~~
4473 ~~December 1, 1987.~~

4474

4475 ~~b) Unless the submitted compliance plan or schedule is disapproved by the Agency,~~
4476 ~~the owner or operator of a facility or emission source subject to this Subpart may~~
4477 ~~operate the emission source according to the plan and schedule as submitted.~~

4478

4479 ~~c) The plan and schedule shall meet the requirements of 35 Ill. Adm. Code 201.~~
4480 ~~Subpart H and Section 215.883.~~

4481

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

4483

4484 **Section 215.883 Special Requirements for Compliance Plan**

4485

4486 ~~For sources subject to this Subpart, an approvable compliance plan shall include:~~

4487

4488 ~~a) A description of each process which is subject to an emissions limitation;~~

4489

4490 ~~b) Quantification of the emissions from each process;~~

4491

4492 ~~c) A description of the procedures and methods used to determine the emissions of~~
4493 ~~volatile organic material;~~

4494

4495 ~~d) A description of the methods which will be used to demonstrate compliance with~~
4496 ~~the allowable plantwide emission limitation (Section 215.877), including a~~
4497 ~~method of inventory, recordkeeping and emission calculation or measurement.~~

4498

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

4500

4501 **Section 215.886 Emission Testing**

4502

4503 a) Any tests of volatile organic material emissions, including tests conducted to
4504 determine control equipment efficiency or control device destruction efficiency,
4505 shall be conducted in accordance with the methods and procedures specified in
4506 Section 215.102.

4507

4508 b) Upon a reasonable request by the Agency, the owner or operator of a polystyrene
4509 plant subject to this Subpart shall conduct emissions testing, at his own expense,

4510 to demonstrate compliance.

4511
4512 c) A person planning to conduct a volatile organic material emissions test to
4513 demonstrate compliance with this Subpart shall notify the Agency of that intent
4514 not less than 30 days before the planned initiation of the tests so the Agency may
4515 observe the test.

4516
4517 (Source: Amended at 14 Ill. Reg. 9173, effective May 23, 1990)

4518
4519 SUBPART PP: MISCELLANEOUS FABRICATED PRODUCT MANUFACTURING
4520 PROCESSES

4521
4522 **Section 215.920 Applicability**

4523
4524 a) The requirements of this Subpart shall apply to the following counties: Cook,
4525 DuPage, Kane, Lake, Macoupin, Madison, McHenry, Monroe, St. Clair and Will.

4526
4527 b) The requirements of this Subpart shall apply to a plant's miscellaneous fabricated
4528 product manufacturing process emission sources which are not regulated by
4529 Subparts B, E, F, N, P, Q, R, S, U, V, X, Y, or Z if the plant is subject to this
4530 Subpart. A plant is subject to this Subpart if it contains process emission sources,
4531 not regulated by Subparts B, E, F, N, P, Q, R, S, U, V, X, Y, or Z, which as a
4532 group would emit 100 tons or more per year of volatile organic material if no air
4533 pollution control equipment were used.

4534
4535 c) If a plant ceases to fulfill the criteria of subsection (b), the requirements of this
4536 Subpart shall continue to apply to a miscellaneous fabricated products
4537 manufacturing process emission source which was subject to and met the control
4538 requirements of Section 215.926.

4539
4540 d) No limits under this Subpart shall apply to:

4541
4542 1) Emission sources with emissions of volatile organic material to the
4543 atmosphere less than or equal to 1.0 tons per year if the total emissions
4544 from such sources not complying with Section 215.926 does not exceed
4545 5.0 tons per year, and
4546
4547 2) Emission sources whose emissions of volatile organic material are subject
4548 to limits in 35 Ill. Adm. Code 230 or 35 Ill. Adm. Code 231; or the Lowest
4549 Achievable Emission Rate, pursuant to 35 Ill. Adm. Code 203; or Best
4550 Available Control Technology, pursuant to 40 CFR 52.21 (1987) or
4551 Section 9.4 of the Act. The Board incorporates by reference 40 CFR
4552 52.21 (1987). This incorporation includes no subsequent amendments or
4553 editions.

4554
4555 e) For the purposes of this Subpart, an emission source shall be considered regulated

4556 by a Subpart if it is subject to the limits of that Subpart or it would be subject to
4557 the limits of that Subpart if the emission sources, emitting VOM, had sufficient
4558 size, throughput or emissions, or if the emission source did not meet a specific
4559 exemption contained in that Subpart.

4560
4561 f) For the purposes of this Subpart, uncontrolled volatile organic material emissions
4562 are the emissions of volatile organic material which would result if no air
4563 pollution control equipment were used.

4564
4565 (Source: Added at 12 Ill. Reg. 7311, effective April 8, 1988)

4566
4567 **Section 215.923 Permit Conditions**

4568
4569 No person shall violate any condition in a permit when the condition results in exclusion of the
4570 plant or an emission source from this Subpart.

4571
4572 (Source: Added at 12 Ill. Reg. 7311, effective April 8, 1988)

4573
4574 **Section 215.926 Control Requirements**

- 4575
4576 a) Every owner or operator of an emission source of volatile organic material shall
4577 operate in compliance with RACT, which for emission sources subject to this
4578 Subpart shall be:
- 4579 1) Emission capture and control techniques which achieve an overall
4580 reduction in uncontrolled volatile organic material emissions of at least
4581 81%; or
 - 4582 2) For coating lines, volatile organic material emissions not to exceed 0.42
4583 kg/l (3.5 lb/gal) of coating materials as applied, excluding water and any
4584 compounds which are specifically exempted from the definition of volatile
4585 organic material, on a daily basis. Owners and operators complying with
4586 this subsection are not required to comply with Section 215.301; or
 - 4587 3) An adjusted RACT emissions limitation obtained pursuant to Subpart I.
- 4588
4589
4590 b) Owners and operators of emission sources subject to this Subpart shall comply
4591 with its requirements by April 1, 1989.

4592
4593 (Source: Added at 12 Ill. Reg. 7311, effective April 8, 1988)

4594
4595
4596
4597 **SUBPART QQ: MISCELLANEOUS FORMULATION MANUFACTURING PROCESSES**

4598
4599 **Section 215.940 Applicability**

- 4600
4601 a) The requirements of this Subpart shall apply to the following counties: Cook,

4602 DuPage, Kane, Lake, Macoupin, Madison, McHenry, Monroe, St. Clair and Will.

4603

4604 b) The requirements of this Subpart shall apply to a plant's miscellaneous
4605 formulation manufacturing process emission sources, which are not regulated by
4606 Subparts B, E, F, N, P, Q, R, S, U, V, X, Y, or Z, if the plant is subject to this
4607 Subpart. A plant is subject to this Subpart if it contains process emission sources,
4608 not regulated by Subparts B, E, F, N, P, Q, R, S, U, V, X, Y, or Z, which as a
4609 group would emit 100 tons or more per year of volatile organic material if no air
4610 pollution control equipment were used.

4611

4612 c) If a plant ceases to fulfill the criteria of subsection (b), the requirements of this
4613 Subpart shall continue to apply to a miscellaneous formulation manufacturing
4614 process emission source which was subject to the met the control requirements of
4615 Section 215.946.

4616

4617 d) No limits under this Subpart shall apply to:

4618

4619 1) Emission sources with emissions of volatile organic material to the
4620 atmosphere less than or equal to 2.5 tons per year if the total emissions
4621 from such sources not complying with Section 215.946 does not exceed
4622 5.0 tons per year, and

4623

4624 2) Emission sources whose emissions of volatile organic material are subject
4625 to limits in 35 Ill. Adm. Code 230 or 35 Ill. Adm. Code 231; or the Lowest
4626 Achievable Emission Rate, pursuant to 35 Ill. Adm. 203; or Best Available
4627 Control Technology, pursuant to 40 CFR 52.21 (1987) or Section 9.4 of
4628 the Act. The Board incorporates by reference 40 CFR 52.21 (1987). This
4629 incorporation includes no subsequent amendments or editions.

4630

4631 e) For the purposes of this Subpart, an emission source shall be considered regulated
4632 by a Subpart if it is subject to the limits of that Subpart or it would be subject to
4633 the limits of that Subpart if the emission sources, emitting VOM, had sufficient
4634 size, throughput or emissions, or if the emission source did not meet a specific
4635 exemption contained in that Subpart.

4636

4637 f) For the purposes of this Subpart, uncontrolled volatile organic material emissions
4638 are the emissions of volatile organic material which would result if no air
4639 pollution control equipment were used.

4640

4641 (Source: Added at 12 Ill. Reg. 7311, effective April 8, 1988)

4642

4643 **Section 215.943 Permit Conditions**

4644

4645 No person shall violate any condition in a permit when the condition results in exclusion of the
4646 plant or an emission source from this Subpart.

4647

4648 (Source: Added at 12 Ill. Reg. 7311, effective April 8, 1988)

4649

4650 **Section 215.946 Control Requirements**

4651

4652 a) Every owner or operator of an emission source of volatile organic material shall
4653 operate in compliance with RACT, which for emission sources subject to this
4654 Subpart shall be:

4655

4656 1) Emission capture and control techniques which achieve an overall
4657 reduction in uncontrolled volatile organic material emissions of at least
4658 81%; or

4659

4660 2) An adjusted RACT emissions limitation obtained pursuant to Subpart I.

4661

4662 b) Owner and operators of emission sources subject to this Subpart shall comply
4663 with its requirements by April 1, 1989

4664

4665 (Source: Added at 12 Ill. Reg. 7311, effective April 8, 1988)

4666

4667 **SUBPART RR: MISCELLANEOUS ORGANIC CHEMICAL MANUFACTURING**
4668 **PROCESSES**

4669

4670 **Section 215.960 Applicability**

4671

4672 a) The requirements of this Subpart shall apply to the following counties: Cook,
4673 DuPage, Kane, Lake, Macoupin, Madison, McHenry, Monroe, St. Clair and Will.

4674

4675 b) The requirements of this Subpart shall apply to a plant's miscellaneous organic
4676 chemical manufacturing process emission sources which are not regulated by
4677 Subparts B, E, F, N, P, Q, R, S, U, V, X, Y, or Z if the plant is subject to this
4678 Subpart. A plant is subject to this Subpart if it contains process emission sources,
4679 not regulated by Subparts B, E, F, N, P, Q, R, S, U, V, X, Y, or Z, which as a
4680 group would emit 100 tons or more per year of volatile organic material if no air
4681 pollution control equipment were used.

4682

4683 c) If a plant ceases to fulfill the criteria of subsection (b), the requirements of this
4684 Subpart shall continue to apply to a miscellaneous organic chemical
4685 manufacturing process emission source which was subject to and met the control
4686 requirements of Section 215.966.

4687

4688 d) No limits under this Subpart shall apply to:

4689

4690 1) Emission sources with emissions of volatile organic material to the
4691 atmosphere less than or equal to 1.0 ton per year if the total emissions
4692 from such sources not complying with [Section 215.966](#) does not
4693 exceed 5.0 tons per year, and

4694
4695 2) Emission sources whose emissions of volatile organic material are subject
4696 to limits in 35 Ill. Adm. Code 230 or 35 Ill. Adm. Code 231; or the Lowest
4697 Achievable Emission Rate, pursuant to 35 Ill. Adm. Code 203; or Best
4698 Available Control Technology, pursuant to 40 CFR 52.21 (1987) or
4699 Section 9.4 of the Act. The Board incorporates by reference 40 CFR
4700 52.21 (1987). This incorporation includes no subsequent amendments or
4701 editions.

4702
4703 e) For the purposes of this Subpart, an emission source shall be considered regulated
4704 by a Subpart if it is subject to the limits of that Subpart or it would be subject to
4705 the limits of that Subpart if the emission sources, emitting VOM, had sufficient
4706 size, throughput or emissions, or if the emission source did not meet a specific
4707 exemption contained in that Subpart.

4708
4709 f) For the purposes of this Subpart, uncontrolled volatile organic material emissions
4710 are the emissions of volatile organic material which would result if no air
4711 pollution control equipment were used.

4712
4713 (Source: Added at 12 Ill. Reg. 7311, effective April 8, 1988)

4714
4715 **Section 215.963 Permit Conditions**

4716
4717 No person shall violate any condition in a permit when the condition results in exclusion of the
4718 plant or an emission source from this Subpart.

4719
4720 (Source: Added at 12 Ill. Reg. 7311, effective April 8, 1988)

4721
4722 **Section 215.966 Control Requirements**

4723
4724 a) Every owner or operator of an emission source of volatile organic material shall
4725 operate in compliance with RACT, which for emission sources subject to this
4726 Subpart shall be:

4727
4728 1) Emission capture and control techniques which achieve an overall
4729 reduction in uncontrolled volatile organic material emissions of at least
4730 81%; or

4731
4732 2) An adjusted RACT emissions limitation obtained pursuant to Subpart I.

4733
4734 b) Owners and operators of emission sources subject to this Subpart shall comply
4735 with its requirements by April 1, 1989.

4736
4737 (Source: Added at 12 Ill. Reg. 7311, effective April 8, 1988)

4738
4739

4740 **Section 215.APPENDIX A Rule Into Section Table**
 4741

RULE	SECTION
205(a)	215.121
205(b)	215.122
205(c)	215.141
205(d)	215.142
205(e)	215.561
205(f) (Preamble)	215.301
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
205(k)(1)	215.181
205(k)(2)(A)	215.182
205(k)(2)(B)	215.183
205(k)(2)(C)	215.184
205(k)(3)(A)	215.182
205(k)(3)(B)	215.183
205(k)(3)(C)	215.184
205(l)(1)	215.442
205(l)(2)	215.443
205(l)(3)	215.444
205(l)(4)	215.445
205(l)(5)	215.446
205(l)(6)	215.447
205(l)(7)	215.448

Electronic Filing: Received, Clerk's Office 4/2/2018 PC#8

RULE	SECTION
205(l)(8)	215.449
205(l)(9)	215.450
205(l)(10)	215.451
205(m) (Preamble)	215.202
	Appendix C
205(m)(1)	215.202
	Appendix C
205(m)(2)	215.123(c)
	215.581
	215.582
	Appendix C
205(m)(3)	215.583
205(m)(4)	215.452
205(m)(5)	215.210
205(m)(6)	215.406
205(n)(1)	215.204
205(n)(2)	215.205
205(n)(3)	215.206
205(n)(4)	215.207
205(n)(5)	215.208
205(n)(6)	215.209
205(o)(1)	215.581
205(o)(2)	215.582
205(o)(3)(A)	215.123(a)
205(o)(3)(B)	215.123(b)
205(o)(3)(C)	215.124(a)
205(o)(3)(D)	215.124(b)
205(p)	215.583
205(q)	215.563
205(r)	215.106
205(s)(1)	215.401
205(s)(2)	215.402
205(s)(3)	215.403
205(s)(4)	215.404
205(t)(1)	215.461
205(t)(2)	215.462
205(t)(3)	215.463
205(t)(4)	215.464
205(u)(1)	215.601
205(u)(2)	215.602
205(u)(3)	215.603
104(a)(1)	215.185
104(a)(2)	215.185, 215.563, 215.601
104(h)	215.126, 215.212, 215.407,

RULE

SECTION

215.466 and 215.605

4742

4743

4744

4745 [Section 215](#).APPENDIX B Section Into Rule Table
4746

SECTION	RULE
215.100	--
215.101	205(h)
215.102	205(i)
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)
215.406	205(m)(6)
215.407	104(h)
215.441	205(g)(1)
215.442	205(l)(1)
215.443	205(l)(2)
215.444	205(l)(3)
215.445	2-5(l)(4)
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)

4747

4748

4749 **Section 215.APPENDIX C Past Compliance Dates**

4750

4751 Prior to codification, compliance programs, project completion schedules, compliance dates and
 4752 compliance schedules for all sources were regulated by Rules 104(a), 104(g), 109(h), 205(j) and
 4753 205(m). Past compliance date rules have been deleted from the text of the codified rules; future
 4754 compliance date rules have been grouped with the rules governing the type of source. As an aid
 4755 to the public, the old text of the compliance date rules are set out at length in this Appendix.

4756

4757

Rule 104(a)

4758

Compliance Programs and Project Completion Schedules – Applicability

4759

4760 (1) No person shall cause or allow the operation of an emission source which
 4761 is not in compliance with the requirements of Rule 205(k) unless such
 4762 person is in compliance with a compliance program as provided for in
 4763 Rule 104(g) or (h) or Rule 205(m).

4764

4765 2) Notwithstanding Rule 104(a)(1), cold cleaning degreasers, coin-operated
 4766 dry cleaning operations, dry cleaning facilities consuming less than 30
 4767 gallons per month (360 gallons per year) of perchloroethylene, and
 4768 sources subject to Rule 205(g) are not required to submit or obtain an
 4769 Agency approved compliance plan or project completion schedule.

4770

4771 3) Any compliance plan or project completion schedule, where applicable,
 4772 shall be a binding condition of the operating permit for the source.

4773

4774

Rule 104(g)

4775 Compliance Programs and Project Completion Schedules –
4776 Submission and Approval Dates
4777

4778 The owner or operator of an emission source subject to the following rules shall have a
4779 Compliance Plan and a Project Completion Schedule, where applicable, approved by the Agency
4780 by the following dates. A Compliance Plan and a Project Completion Schedule, where
4781 applicable, shall be submitted at least 90 days before the following dates.
4782

- 4783 1) By February 1, 1980. Gasoline dispensing facilities subject to Rule 205(p)
4784 and degreasers subject to Rule 205(k) located in Cook, DuPage, Lake,
4785 Kane, McHenry and Will counties.
4786
4787 2) By March 1, 1980. Petroleum refineries subject to Rule 205(1), except
4788 (1)(4)(10). Gasoline dispensing facilities subject to Rule 205(p) in Boone,
4789 Madison, St. Clair, Peoria, Tazewell, Rock Island and Winnebago
4790 counties.
4791
4792 3) By April 1, 1980. Degreasers subject to Rule 205(k) located in counties
4793 other than Cook, DuPage, Lake, Kane, McHenry or Will. Bulk gasoline
4794 plants, bulk gasoline terminals and petroleum liquid storage tanks subject
4795 to Rule 205(o), except (o)(3), located in Cook, DuPage, Lake, Kane,
4796 McHenry and Will counties.
4797
4798 4) By April 1, 1980. Coating lines subject to Rule 205(n), except (n)(1)(J),
4799 and (K). Bulk gasoline plants, bulk gasoline terminals and petroleum
4800 liquid storage tanks subject to Rule 205(o), except (o)(3), which are
4801 located in counties other than Cook, Lake, DuPage, Kane, McHenry or
4802 Will.
4803

4804 Rule 104(h)
4805 Compliance Programs and Project Completion Schedules –
4806 RACT II Compliance Plan Submission and Approval
4807

- 4808
4809 1) The owner or operator ~~of an~~ an emission source subject to Rule 205(j)(1)
4810 shall submit to the Agency a ~~compliance~~ [compliance](#) plan, including a
4811 project completion schedule where applicable, no later than:
4812

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

- 4813
4814 2) The owner or operator of an emission source subject to Rule 205(j)(2)
4815 shall submit to the Agency a compliance plan, including a project

4816 completion schedule where applicable, no later than December 31, 1986.

4817
 4818 4) Unless the submitted ~~compliance~~ compliance plan or schedule is
 4819 disapproved by the Agency, the owner or operator of a facility or emission
 4820 source subject to the rules specified in Rule 104(h)(1), (2), or (3) may
 4821 operate the emission source according to the plan and schedule as
 4822 submitted.

4823
 4824 5) The plan and schedule shall meet the requirements of Rule 104(b)
 4825 including specific interim dates as required in Rule 104(b)(2).

4826
 4827 Rule 205(j)
 4828 Compliance Dates
 4829

4830 1) Except as otherwise stated in subsection (2), every owner or operator of an
 4831 emission source shall comply with the standards and limitations of Rule
 4832 205 in accordance with the dates shown in the following table:
 4833

<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

4834

4835 *Except for automobile and light-duty truck manufacturing plants achieving final compliance
4836 under a footnote to Rule 205(n)(1).

4837

4838 2) If an emission source is not located in one of the counties listed below**
4839 and is also not located in any county contiguous thereto, the owner or
4840 operator of the emission source shall comply with the requirements of rule
4841 205(1)(4)-(10), (n)(1)(J) or (K), (o)(3), (s), (t), or (u) no later than
4842 December 31, 1987:

4843

Cook	Macoupin
DuPage	Madison
Kane	Monroe
Lake	Saint Clair

4844

4845 3) Notwithstanding subsection (2) above, if any county is designated as non-
4846 attainment by the U.S. Environmental Protection Agency at any time
4847 ~~subsequent~~ subsequent to the effective date of this Rule, the owner or
4848 operator of an ~~emission~~ emission source located in that county or any county
4849 contiguous to that county who would otherwise be subject to the
4850 compliance date in subsection (2) shall comply with the requirements of
4851 Rule 205(1)(4)-(10), (n)(1)(J) or (K), (o)(3), (s), (t), or (u) within one year
4852 from the date of redesignation but in no case later than December 31,
4853 1987.

4854

4855 ** These counties are proposed to be designated as nonattainment by the U.S. Environmental
4856 Protection Agency in Federal Register, Volume 47, page 31588 (July 21, 1982).

4857

Rule 205(m)

Compliance Schedules

4860

4861 The requirements of this section shall not apply to any source for which a Project Completion
4862 Schedule has been submitted to and approved by the Agency under Rule 104. The owner of any
4863 emission source subject to the requirements of this section shall certify to the Agency by January
4864 15 of each year beginning January 15, 1980, whether increments of progress required to be met
4865 in the previous year have been met.

4866

4867 1) Coating Lines

4868

4869 The owner or operator of coating lines subject to the requirements of Rule
4870 205(n), except (n)(1)(J) and (K), shall take the following actions:

4871 (A) Submit to the Agency a Compliance Program that meets the
4872 requirements of Rule 104(b)(1) by January 1, 1980.

4873

- 4874
4875
4876
4877
4878
4879
4880
4881
4882
4883
4884
4885
4886
4887
4888
4889
4890
4891
4892
4893
4894
4895
4896
4897
4898
4899
4900
4901
4902
4903
4904
4905
4906
4907
4908
4909
4910
4911
4912
4913
4914
4915
4916
4917
4918
4919
- (B) For sources that, under the approved Compliance Plan, will comply with Rule 205(n) by use of low solvent coating technology the following ~~enerelements~~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.

4920
4921
4922
4923
4924
4925
4926
4927
4928
4929
4930
4931
4932
4933
4934
4935
4936
4937
4938
4939
4940
4941
4942
4943
4944
4945
4946
4947
4948
4949
4950
4951
4952
4953
4954
4955
4956
4957
4958
4959
4960
4961
4962
4963
4964
4965

- 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:

- 4966
4967
4968
4969
4970
4971
4972
4973
4974
4975
4976
4977
4978
4979
4980
4981
4982
4983
4984
4985
4986
4987
4988
4989
4990
4991
4992
4993
4994
4995
4996
4997
4998
4999
5000
5001
5002
5003
5004
5005
5006
5007
5008
5009
5010
5011
- 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 ~~occurre~~occurred ~~d~~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

5012
5013
5014
5015
5016

205(s)(1)(C) by June 31, 1986 if the specified low-solvent ink strategy fails to achieve scheduled reductions by December 31, 1985.

5017 **Section 215.** APPENDIX D List of Chemicals Defining Synthetic Organic Chemical and
 5018 **Polymer Manufacturing**
 5019

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,	Amyl acetates
123-92-2	
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 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 chlorohydrinechloroydrin
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 glycol monoethylglycolmonoethyl ether acetate
109-86-4	Ethylene glycol monoethylglycolmonoethyl ether
110-49-6	Ethylene glycol monomethylglycolmonomethyl ether acetate
122-99-6	Ethylene glycol monophenyl ether
2807-30-9	Ethylene glycol monopropylglycolmonopropyl 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

5021 a) CAS numbers refer to the Chemical Abstracts Registry numbers assigned to
5022 specific chemicals, isomers or mixtures of chemicals. Some isomers or mixtures
5023 that are covered by the standards do not have CAS numbers assigned to them.
5024 The standards apply to all of the chemicals listed, whether CAS numbers have
5025 been assigned or not.

5026
5027 b) No CAS number(s) have been assigned to this chemical, to its isomers, or
5028 mixtures containing these chemicals.

5029
5030 c) CAS numbers for some of the isomers are listed: the standards apply to all of the
5031 isomers and mixtures even if CAS numbers have not been assigned.

5032
5033 (Source: Amended at 13 Ill. Reg. 10893, effective June 27, 1989)

5034

5035 Section 215.APPENDIX E Reference Methods and Procedures

5036
5037
5038
5039
5040
5041
5042
5043
5044
5045
5046
5047
5048
5049
5050
5051
5052
5053
5054
5055
5056
5057
5058
5059
5060
5061
5062
5063
5064
5065
5066
5067
5068
5069
5070
5071
5072
5073
5074
5075
5076
5077
5078
5079
5080

Introduction

This Appendix presents the reference methods and procedures required for implementing Reasonably Available Control Technology (RACT). Methods and procedures are identified for two types of ACT implementation:

- a) Determination of VOC destruction efficiency for evaluating compliance with the 98 weight percent VOC reduction or 20 ppmv emission limit specified in Sections 215.520 through 215.527; and
- b) Determination of offgas flowrate, hourly emissions and stream net heating value for calculating TRE.

All reference methods identified in this Appendix refer to the reference methods specified at 40 CFR 60, Appendix A, incorporated by reference in Section 215.105.

VOC DESTRUCTION EFFICIENCY DETERMINATION

The following reference methods and procedures are required for determining compliance with the percent destruction efficiency specified in Sections 215.520 through 215.527.

- a) Reference Method 1 or 1A for selection of the sampling site. The control device inlet sampling site for determination of vent stream molar composition or total organic compound destruction efficiency shall be prior to the inlet of any control device and after all recovery devices.
- b) Reference Methods 2, 2A, 2C or 2D for determination of the volumetric flowrate.
- c) Reference Method 3 to measure oxygen concentration of the air dilution correction. The emission sample shall be corrected to 3 percent oxygen.
- d) Reference Method 18 to determine the concentration of total organic compounds (minus methane and ethane) in the control device outlet and total organic compound reduction efficiency of the control device.

TRE DETERMINATION

The following reference methods and procedures are required for determining the offgas flowrate, hourly emissions, and the net heating value of the gas combusted to calculate the vent stream TRE.

- a) Reference Method 1 or 1A for selection of the sampling site. The sampling site for the vent stream flowrate and molar composition determination prescribed in (b) and (c) shall be prior to the inlet of any combustion device, prior to any post-

5081 reactor dilution of the stream with air and prior to any post-reactor introduction of
5082 halogenated compounds into the vent stream. Subject to the preceding restrictions
5083 on the sampling site, it shall be after the final recovery device. If any gas stream
5084 other than the air oxidation vent stream is normally conducted through the
5085 recovery system of the affected facility, such stream shall be rerouted or turned
5086 off while the vent stream is sampled, but shall be routed normally prior to the
5087 measuring of the initial value of the monitored parameters for determining
5088 compliance with the recommended RACT. If the air oxidation vent stream is
5089 normally routed through any equipment which is not a part of the air oxidation
5090 process as defined in 35 Ill. Adm. Code 211.122, such equipment shall be
5091 bypassed by the vent stream while the vent stream is sampled, but shall not be
5092 bypassed during the measurement of the initial value of the monitored parameters
5093 for determining compliance with Subpart V.

5094
5095 b) The molar composition of the vent stream shall be determined using the following
5096 methods:

5097
5098 1) Reference Method 18 to measure the concentration of all organics,
5099 including those containing halogens, unless a significant portion of the
5100 compounds of interest are polymeric (high molecular weight), can
5101 polymerize before analysis or have low vapor pressures, in which case
5102 Reference Method 25(a) shall be used.

5103
5104 2) ASTM D1946-67 (reapproved 1977), incorporated by reference in Section
5105 215.105, to measure the concentration of carbon monoxide and hydrogen.

5106
5107 3) Reference Method 4 to measure the content of water vapor, if necessary.

5108
5109 c) The volumetric flowrate shall be determined using Reference Method 2, 2A, 2C
5110 or 2D, as appropriate.

5111
5112 d) The net heating value of the vent stream shall be calculated using the following
5113 equation:

5114

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

5115

5116

5117

Where:

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.

5118
5119
5120
5121

- e) The emission rate of total organic compounds in the process vent stream shall be calculated using the following equation:

$$E = K'F \sum_{i=1}^n C_i M_i$$

5122
5123
5124

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.

5125
5126
5127
5128
5129
5130
5131
5132

- 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)

5133 [Section 215](#).APPENDIX F Coefficients for the Total Resource Effectiveness Index (TRE)
 5134 Equation

5135
 5136 This Appendix contains values for the total resource effectiveness index (TRE) equation in
 5137 Subpart V.

5138
 5139 If a flow rate falls exactly on the boundary between the indicated ranges, the operator shall use
 5140 the row in which the flow rate is maximum.

5141
 5142
 5143

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

5144
 5145

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

5146
 5147

5148

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

5149

5150

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

5151

5152

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

5153

5154

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

5155
5156
5157
5158

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