

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

R07-19

6
7 PART 211
8 DEFINITIONS AND GENERAL PROVISIONS
9

10 SUBPART A: GENERAL PROVISIONS
11

- 12 Section
13 211.101 Incorporations by Reference
14 211.102 Abbreviations and Conversion Factors
15

16 SUBPART B: DEFINITIONS
17

- 18 Section
19 211.121 Other Definitions
20 211.122 Definitions (Repealed)
21 211.130 Accelacota
22 211.150 Accumulator
23 211.170 Acid Gases
24 211.210 Actual Heat Input
25 211.230 Adhesive
26 211.240 Adhesion Promoter
27 211.250 Aeration
28 211.270 Aerosol Can Filling Line
29 211.290 Afterburner
30 211.310 Air Contaminant
31 211.330 Air Dried Coatings
32 211.350 Air Oxidation Process
33 211.370 Air Pollutant
34 211.390 Air Pollution
35 211.410 Air Pollution Control Equipment
36 211.430 Air Suspension Coater/Dryer
37 211.450 Airless Spray
38 211.470 Air Assisted Airless Spray
39 211.474 Alcohol
40 211.479 Allowance
41 211.484 Animal
42 211.485 Animal Pathological Waste
43 211.490 Annual Grain Through-Put

44	211.495	Anti-Glare/Safety Coating
45	211.510	Application Area
46	211.530	Architectural Coating
47	211.550	As Applied
48	211.560	As-Applied Fountain Solution
49	211.570	Asphalt
50	211.590	Asphalt Prime Coat
51	211.610	Automobile
52	211.630	Automobile or Light-Duty Truck Assembly Source or Automobile or Light-Duty
53		Truck Manufacturing Plant
54	211.650	Automobile or Light-Duty Truck Refinishing
55	211.660	Automotive/Transportation Plastic Parts
56	211.670	Baked Coatings
57	211.680	Bakery Oven
58	211.685	Basecoat/Clearcoat System
59	211.690	Batch Loading
60	211.695	Batch Operation
61	211.696	Batch Process Train
62	211.710	Bead-Dipping
63	211.730	Binders
64	211.750	British Thermal Unit
65	211.770	Brush or Wipe Coating
66	211.790	Bulk Gasoline Plant
67	211.810	Bulk Gasoline Terminal
68	211.820	Business Machine Plastic Parts
69	211.830	Can
70	211.850	Can Coating
71	211.870	Can Coating Line
72	211.890	Capture
73	211.910	Capture Device
74	211.930	Capture Efficiency
75	211.950	Capture System
76	211.953	Carbon Adsorber
77	211.955	Cement
78	211.960	Cement Kiln
79	211.970	Certified Investigation
80	211.980	Chemical Manufacturing Process Unit
81	211.990	Choke Loading
82	211.1010	Clean Air Act
83	211.1050	Cleaning and Separating Operation
84	211.1070	Cleaning Materials
85	211.1090	Clear Coating
86	211.1110	Clear Topcoat

87	211.1120	Clinker
88	211.1130	Closed Purge System
89	211.1150	Closed Vent System
90	211.1170	Coal Refuse
91	211.1190	Coating
92	211.1210	Coating Applicator
93	211.1230	Coating Line
94	211.1250	Coating Plant
95	211.1270	Coil Coating
96	211.1290	Coil Coating Line
97	211.1310	Cold Cleaning
98	211.1312	Combined Cycle System
99	211.1316	Combustion Turbine
100	211.1320	Commence Commercial Operation
101	211.1324	Commence Operation
102	211.1328	Common Stack
103	211.1330	Complete Combustion
104	211.1350	Component
105	211.1370	Concrete Curing Compounds
106	211.1390	Concentrated Nitric Acid Manufacturing Process
107	211.1410	Condensate
108	211.1430	Condensable PM-10
109	211.1465	Continuous Automatic Stoking
110	211.1467	Continuous Coater
111	211.1470	Continuous Process
112	211.1490	Control Device
113	211.1510	Control Device Efficiency
114	211.1515	Control Period
115	211.1520	Conventional Air Spray
116	211.1530	Conventional Soybean Crushing Source
117	211.1550	Conveyorized Degreasing
118	211.1570	Crude Oil
119	211.1590	Crude Oil Gathering
120	211.1610	Crushing
121	211.1630	Custody Transfer
122	211.1650	Cutback Asphalt
123	211.1670	Daily-Weighted Average VOM Content
124	211.1690	Day
125	211.1710	Degreaser
126	211.1730	Delivery Vessel
127	<u>211.174</u>	<u>Diesel Engine</u>
128	211.1750	Dip Coating
129	211.1770	Distillate Fuel Oil

130	211.1780	Distillation Unit
131	211.1790	Drum
132	211.1810	Dry Cleaning Operation or Dry Cleaning Facility
133	211.1830	Dump-Pit Area
134	211.1850	Effective Grate Area
135	211.1870	Effluent Water Separator
136	211.1875	Elastomeric Materials
137	211.1880	Electromagnetic Interference/Radio Frequency Interference (EMI/RFI) Shielding
138		Coatings
139	211.1885	Electronic Component
140	211.1890	Electrostatic Bell or Disc Spray
141	211.1900	Electrostatic Prep Coat
142	211.1910	Electrostatic Spray
143	211.1920	Emergency or Standby Unit
144	211.1930	Emission Rate
145	211.1950	Emission Unit
146	211.1970	Enamel
147	211.1990	Enclose
148	211.2010	End Sealing Compound Coat
149	211.2030	Enhanced Under-the-Cup Fill
150	211.2050	Ethanol Blend Gasoline
151	211.2070	Excess Air
152	211.2080	Excess Emissions
153	211.2090	Excessive Release
154	211.2110	Existing Grain-Drying Operation (Repealed)
155	211.2130	Existing Grain-Handling Operation (Repealed)
156	211.2150	Exterior Base Coat
157	211.2170	Exterior End Coat
158	211.2190	External Floating Roof
159	211.2210	Extreme Performance Coating
160	211.2230	Fabric Coating
161	211.2250	Fabric Coating Line
162	211.2270	Federally Enforceable Limitations and Conditions
163	211.2285	Feed Mill
164	211.2290	Fermentation Time
165	211.2300	Fill
166	211.2310	Final Repair Coat
167	211.2330	Firebox
168	211.2350	Fixed-Roof Tank
169	211.2360	Flexible Coating
170	211.2365	Flexible Operation Unit
171	211.2370	Flexographic Printing
172	211.2390	Flexographic Printing Line

173	211.2410	Floating Roof
174	211.2420	Fossil Fuel
175	211.2425	Fossil Fuel-Fired
176	211.2430	Fountain Solution
177	211.2450	Freeboard Height
178	211.2470	Fuel Combustion Emission Unit or Fuel Combustion Emission Source
179	211.2490	Fugitive Particulate Matter
180	211.2510	Full Operating Flowrate
181	211.2530	Gas Service
182	211.2550	Gas/Gas Method
183	211.2570	Gasoline
184	211.2590	Gasoline Dispensing Operation or Gasoline Dispensing Facility
185	211.2610	Gel Coat
186	211.2620	Generator
187	211.2630	Gloss Reducers
188	211.2650	Grain
189	211.2670	Grain-Drying Operation
190	211.2690	Grain-Handling and Conditioning Operation
191	211.2710	Grain-Handling Operation
192	211.2730	Green-Tire Spraying
193	211.2750	Green Tires
194	211.2770	Gross Heating Value
195	211.2790	Gross Vehicle Weight Rating
196	211.2810	Heated Airless Spray
197	211.2815	Heat Input
198	211.2820	Heat Input Rate
199	211.2830	Heatset
200	211.2850	Heatset Web Offset Lithographic Printing Line
201	211.2870	Heavy Liquid
202	211.2890	Heavy Metals
203	211.2910	Heavy Off-Highway Vehicle Products
204	211.2930	Heavy Off-Highway Vehicle Products Coating
205	211.2950	Heavy Off-Highway Vehicle Products Coating Line
206	211.2970	High Temperature Aluminum Coating
207	211.2990	High Volume Low Pressure (HVL) Spray
208	211.3010	Hood
209	211.3030	Hot Well
210	211.3050	Housekeeping Practices
211	211.3070	Incinerator
212	211.3090	Indirect Heat Transfer
213	211.3110	Ink
214	211.3130	In-Process Tank
215	211.3150	In-Situ Sampling Systems

216	211.3170	Interior Body Spray Coat
217	211.3190	Internal-Floating Roof
218	211.3210	Internal Transferring Area
219	211.3230	Lacquers
220	211.3250	Large Appliance
221	211.3270	Large Appliance Coating
222	211.3290	Large Appliance Coating Line
223	211.3310	Light Liquid
224	211.3330	Light-Duty Truck
225	211.3350	Light Oil
226	211.3370	Liquid/Gas Method
227	211.3390	Liquid-Mounted Seal
228	211.3410	Liquid Service
229	211.3430	Liquids Dripping
230	211.3450	Lithographic Printing Line
231	211.3470	Load-Out Area
232	211.3480	Loading Event
233	211.3483	Long Dry Kiln
234	211.3485	Long Wet Kiln
235	211.3487	Low-NO _x Burner
236	211.3490	Low Solvent Coating
237	211.3500	Lubricating Oil
238	211.3510	Magnet Wire
239	211.3530	Magnet Wire Coating
240	211.3550	Magnet Wire Coating Line
241	211.3570	Major Dump Pit
242	211.3590	Major Metropolitan Area (MMA)
243	211.3610	Major Population Area (MPA)
244	211.3620	Manually Operated Equipment
245	211.3630	Manufacturing Process
246	211.3650	Marine Terminal
247	211.3660	Marine Vessel
248	211.3670	Material Recovery Section
249	211.3690	Maximum Theoretical Emissions
250	211.3695	Maximum True Vapor Pressure
251	211.3710	Metal Furniture
252	211.3730	Metal Furniture Coating
253	211.3750	Metal Furniture Coating Line
254	211.3770	Metallic Shoe-Type Seal
255	211.3780	Mid-Kiln Firing
256	211.3790	Miscellaneous Fabricated Product Manufacturing Process
257	211.3810	Miscellaneous Formulation Manufacturing Process
258	211.3830	Miscellaneous Metal Parts and Products

259	211.3850	Miscellaneous Metal Parts and Products Coating
260	211.3870	Miscellaneous Metal Parts or Products Coating Line
261	211.3890	Miscellaneous Organic Chemical Manufacturing Process
262	211.3910	Mixing Operation
263	211.3915	Mobile Equipment
264	211.3930	Monitor
265	211.3950	Monomer
266	211.3960	Motor Vehicles
267	211.3965	Motor Vehicle Refinishing
268	211.3970	Multiple Package Coating
269	211.3980	Nameplate Capacity
270	211.3990	New Grain-Drying Operation (Repealed)
271	211.4010	New Grain-Handling Operation (Repealed)
272	211.4030	No Detectable Volatile Organic Material Emissions
273	211.4050	Non-Contact Process Water Cooling Tower
274	211.4055	Non-Flexible Coating
275	211.4065	Non-Heatset
276	211.4067	NO _x Trading Program
277	211.4070	Offset
278	211.4090	One Hundred Percent Acid
279	211.4110	One-Turn Storage Space
280	211.4130	Opacity
281	211.4150	Opaque Stains
282	211.4170	Open Top Vapor Degreasing
283	211.4190	Open-Ended Valve
284	211.4210	Operator of a Gasoline Dispensing Operation or Operator of a Gasoline
285		Dispensing Facility
286	211.4230	Organic Compound
287	211.4250	Organic Material and Organic Materials
288	211.4260	Organic Solvent
289	211.4270	Organic Vapor
290	211.4290	Oven
291	211.4310	Overall Control
292	211.4330	Overvarnish
293	211.4350	Owner of a Gasoline Dispensing Operation or Owner of a Gasoline Dispensing
294		Facility
295	211.4370	Owner or Operator
296	211.4390	Packaging Rotogravure Printing
297	211.4410	Packaging Rotogravure Printing Line
298	211.4430	Pail
299	211.4450	Paint Manufacturing Source or Paint Manufacturing Plant
300	211.4470	Paper Coating
301	211.4490	Paper Coating Line

302	211.4510	Particulate Matter
303	211.4530	Parts Per Million (Volume) or PPM (Vol)
304	211.4550	Person
305	211.4590	Petroleum
306	211.4610	Petroleum Liquid
307	211.4630	Petroleum Refinery
308	211.4650	Pharmaceutical
309	211.4670	Pharmaceutical Coating Operation
310	211.4690	Photochemically Reactive Material
311	211.4710	Pigmented Coatings
312	211.4730	Plant
313	211.4740	Plastic Part
314	211.4750	Plasticizers
315	211.4770	PM-10
316	211.4790	Pneumatic Rubber Tire Manufacture
317	211.4810	Polybasic Organic Acid Partial Oxidation Manufacturing Process
318	211.4830	Polyester Resin Material(s)
319	211.4850	Polyester Resin Products Manufacturing Process
320	211.4870	Polystyrene Plant
321	211.4890	Polystyrene Resin
322	211.4910	Portable Grain-Handling Equipment
323	211.4930	Portland Cement Manufacturing Process Emission Source
324	211.4950	Portland Cement Process or Portland Cement Manufacturing Plant
325	211.4960	Potential Electrical Output Capacity
326	211.4970	Potential to Emit
327	211.4990	Power Driven Fastener Coating
328	211.5010	Precoat
329	211.5015	Preheater Kiln
330	211.5020	Preheater/Precalciner Kiln
331	211.5030	Pressure Release
332	211.5050	Pressure Tank
333	211.5060	Pressure/Vacuum Relief Valve
334	211.5061	Pretreatment Wash Primer
335	211.5065	Primary Product
336	211.5070	Prime Coat
337	211.5080	Primer Sealer
338	211.5090	Primer Surfacer Coat
339	211.5110	Primer Surfacer Operation
340	211.5130	Primers
341	211.5150	Printing
342	211.5170	Printing Line
343	211.5185	Process Emission Source
344	211.5190	Process Emission Unit

345	211.5210	Process Unit
346	211.5230	Process Unit Shutdown
347	211.5245	Process Vent
348	211.5250	Process Weight Rate
349	211.5270	Production Equipment Exhaust System
350	211.5310	Publication Rotogravure Printing Line
351	211.5330	Purged Process Fluid
352	211.5340	Rated Heat Input Capacity
353	211.5350	Reactor
354	211.5370	Reasonably Available Control Technology (RACT)
355	211.5390	Reclamation System
356	211.5410	Refiner
357	211.5430	Refinery Fuel Gas
358	211.5450	Refinery Fuel Gas System
359	211.5470	Refinery Unit or Refinery Process Unit
360	211.5480	Reflective Argent Coating
361	211.5490	Refrigerated Condenser
362	211.5500	Regulated Air Pollutant
363	211.5510	Reid Vapor Pressure
364	211.5530	Repair
365	211.5550	Repair Coat
366	211.5570	Repaired
367	211.5580	Repowering
368	211.5590	Residual Fuel Oil
369	211.5600	Resist Coat
370	211.5610	Restricted Area
371	211.5630	Retail Outlet
372	211.5650	Ringelmann Chart
373	211.5670	Roadway
374	211.5690	Roll Coater
375	211.5710	Roll Coating
376	211.5730	Roll Printer
377	211.5750	Roll Printing
378	211.5770	Rotogravure Printing
379	211.5790	Rotogravure Printing Line
380	211.5810	Safety Relief Valve
381	211.5830	Sandblasting
382	211.5850	Sanding Sealers
383	211.5870	Screening
384	211.5880	Screen Printing on Paper
385	211.5890	Sealer
386	211.5910	Semi-Transparent Stains
387	211.5930	Sensor

388	211.5950	Set of Safety Relief Valves
389	211.5970	Sheet Basecoat
390	211.5980	Sheet-Fed
391	211.5990	Shotblasting
392	211.6010	Side-Seam Spray Coat
393	211.6025	Single Unit Operation
394	211.6030	Smoke
395	211.6050	Smokeless Flare
396	211.6060	Soft Coat
397	211.6070	Solvent
398	211.6090	Solvent Cleaning
399	211.6110	Solvent Recovery System
400	211.6130	Source
401	211.6140	Specialty Coatings
402	211.6145	Specialty Coatings for Motor Vehicles
403	211.6150	Specialty High Gloss Catalyzed Coating
404	211.6170	Specialty Leather
405	211.6190	Specialty Soybean Crushing Source
406	211.6210	Splash Loading
407	211.6230	Stack
408	211.6250	Stain Coating
409	211.6270	Standard Conditions
410	211.6290	Standard Cubic Foot (scf)
411	211.6310	Start-Up
412	211.6330	Stationary Emission Source
413	211.6350	Stationary Emission Unit
414	211.6355	Stationary Gas Turbine
415	211.6360	Stationary Reciprocating Internal Combustion Engine
416	211.6370	Stationary Source
417	211.6390	Stationary Storage Tank
418	211.6400	Stencil Coat
419	211.6410	Storage Tank or Storage Vessel
420	211.6420	Strippable Spray Booth Coating
421	211.6430	Styrene Devolatilizer Unit
422	211.6450	Styrene Recovery Unit
423	211.6470	Submerged Loading Pipe
424	211.6490	Substrate
425	211.6510	Sulfuric Acid Mist
426	211.6530	Surface Condenser
427	211.6540	Surface Preparation Materials
428	211.6550	Synthetic Organic Chemical or Polymer Manufacturing Plant
429	211.6570	Tablet Coating Operation
430	211.6580	Texture Coat

431	211.6590	Thirty-Day Rolling Average
432	211.6610	Three-Piece Can
433	211.6620	Three or Four Stage Coating System
434	211.6630	Through-the-Valve Fill
435	211.6650	Tooling Resin
436	211.6670	Topcoat
437	211.6690	Topcoat Operation
438	211.6695	Topcoat System
439	211.6710	Touch-Up
440	211.6720	Touch-Up Coating
441	211.6730	Transfer Efficiency
442	211.6750	Tread End Cementing
443	211.6770	True Vapor Pressure
444	211.6790	Turnaround
445	211.6810	Two-Piece Can
446	211.6830	Under-the-Cup Fill
447	211.6850	Undertread Cementing
448	211.6860	Uniform Finish Blender
449	211.6870	Unregulated Safety Relief Valve
450	211.6880	Vacuum Metallizing
451	211.6890	Vacuum Producing System
452	211.6910	Vacuum Service
453	211.6930	Valves Not Externally Regulated
454	211.6950	Vapor Balance System
455	211.6970	Vapor Collection System
456	211.6990	Vapor Control System
457	211.7010	Vapor-Mounted Primary Seal
458	211.7030	Vapor Recovery System
459	211.7050	Vapor-Suppressed Polyester Resin
460	211.7070	Vinyl Coating
461	211.7090	Vinyl Coating Line
462	211.7110	Volatile Organic Liquid (VOL)
463	211.7130	Volatile Organic Material Content (VOMC)
464	211.7150	Volatile Organic Material (VOM) or Volatile Organic Compound (VOC)
465	211.7170	Volatile Petroleum Liquid
466	211.7190	Wash Coat
467	211.7200	Washoff Operations
468	211.7210	Wastewater (Oil/Water) Separator
469	211.7230	Weak Nitric Acid Manufacturing Process
470	211.7250	Web
471	211.7270	Wholesale Purchase – Consumer
472	211.7290	Wood Furniture
473	211.7310	Wood Furniture Coating

- 474 211.7330 Wood Furniture Coating Line
- 475 211.7350 Woodworking
- 476 211.7400 Yeast Percentage
- 477
- 478 211.APPENDIX A Rule into Section Table
- 479 211.APPENDIX B Section into Rule Table

480

481 AUTHORITY: Implementing Sections 9, 9.1, 9.9 and 10 and authorized by Sections 27 and
 482 28.5 of the Environmental Protection Act [415 ILCS 5/9, 9.1, 9.9, 10, 27 and 28.5].

483 SOURCE: Adopted as Chapter 2: Air Pollution, Rule 201: Definitions, R71-23, 4 PCB 191,
 484 filed and effective April 14, 1972; amended in R74-2 and R75-5, 32 PCB 295, at 3 Ill. Reg. 5, p.
 485 777, effective February 3, 1979; amended in R78-3 and 4, 35 PCB 75 and 243, at 3 Ill. Reg. 30,
 486 p. 124, effective July 28, 1979; amended in R80-5, at 7 Ill. Reg. 1244, effective January 21,
 487 1983; codified at 7 Ill. Reg. 13590; amended in R82-1 (Docket A) at 10 Ill. Reg. 12624, effective
 488 July 7, 1986; amended in R85-21(A) at 11 Ill. Reg. 11747, effective June 29, 1987; amended in
 489 R86-34 at 11 Ill. Reg. 12267, effective July 10, 1987; amended in R86-39 at 11 Ill. Reg. 20804,
 490 effective December 14, 1987; amended in R82-14 and R86-37 at 12 Ill. Reg. 787, effective
 491 December 24, 1987; amended in R86-18 at 12 Ill. Reg. 7284, effective April 8, 1988; amended
 492 in R86-10 at 12 Ill. Reg. 7621, effective April 11, 1988; amended in R88-23 at 13 Ill. Reg.
 493 10862, effective June 27, 1989; amended in R89-8 at 13 Ill. Reg. 17457, effective January 1,
 494 1990; amended in R89-16(A) at 14 Ill. Reg. 9141, effective May 23, 1990; amended in R88-
 495 30(B) at 15 Ill. Reg. 5223, effective March 28, 1991; amended in R88-14 at 15 Ill. Reg. 7901,
 496 effective May 14, 1991; amended in R91-10 at 15 Ill. Reg. 15564, effective October 11, 1991;
 497 amended in R91-6 at 15 Ill. Reg. 15673, effective October 14, 1991; amended in R91-22 at 16
 498 Ill. Reg. 7656, effective May 1, 1992; amended in R91-24 at 16 Ill. Reg. 13526, effective August
 499 24, 1992; amended in R93-9 at 17 Ill. Reg. 16504, effective September 27, 1993; amended in
 500 R93-11 at 17 Ill. Reg. 21471, effective December 7, 1993; amended in R93-14 at 18 Ill. Reg.
 501 1253, effective January 18, 1994; amended in R94-12 at 18 Ill. Reg. 14962, effective September
 502 21, 1994; amended in R94-14 at 18 Ill. Reg. 15744, effective October 17, 1994; amended in
 503 R94-15 at 18 Ill. Reg. 16379, effective October 25, 1994; amended in R94-16 at 18 Ill. Reg.
 504 16929, effective November 15, 1994; amended in R94-21, R94-31 and R94-32 at 19 Ill. Reg.
 505 6823, effective May 9, 1995; amended in R94-33 at 19 Ill. Reg. 7344, effective May 22, 1995;
 506 amended in R95-2 at 19 Ill. Reg. 11066, effective July 12, 1995; amended in R95-16 at 19 Ill.
 507 Reg. 15176, effective October 19, 1995; amended in R96-5 at 20 Ill. Reg. 7590, effective May
 508 22, 1996; amended in R96-16 at 21 Ill. Reg. 2641, effective February 7, 1997; amended in R97-
 509 17 at 21 Ill. Reg. 6489, effective May 16, 1997; amended in R97-24 at 21 Ill. Reg. 7695,
 510 effective June 9, 1997; amended in R96-17 at 21 Ill. Reg. 7856, effective June 17, 1997;
 511 amended in R97-31 at 22 Ill. Reg. 3497, effective February 2, 1998; amended in R98-17 at 22 Ill.
 512 Reg. 11405, effective June 22, 1998; amended in R01-9 at 25 Ill. Reg. 128, effective December
 513 26, 2000; amended in R01-11 at 25 Ill. Reg. 4597, effective March 15, 2001; amended in R01-17
 514 at 25 Ill. Reg. 5900, effective April 17, 2001; amended in R05-16 at 29 Ill. Reg. 8181, effective
 515 May 23, 2005; amended in R05-11 at 29 Ill. Reg. 8892, effective June 13, 2005; amended in R04-

516 12/20 at 30 Ill. Reg. 9654, effective May 15, 2006; amended in R07-19 at 31 Ill. Reg. _____,
517 effective _____.

518

519

SUBPART B: DEFINITIONS

520

521 **Section 211.1740 Diesel Engine**

522

523 "Diesel engine" means, for the purposes of 35 Ill. Adm. Code 217, Subpart Q, a compression
524 ignited two- or four-stroke engine in which liquid fuel injected into the combustion chamber
525 ignites when the air charge is compressed to a temperature sufficiently high for auto-ignition.

526

527 (Source: Added at 31 Ill. Reg. _____, effective _____)

528

529 **Section 211.1920 Emergency or Standby Unit**

530

531 "Emergency or standby unit" means, for a stationary gas turbine or a stationary reciprocating
532 internal combustion engine, a unit that:

533

534 a) Supplies power for the source at which it is located but operates only when the
535 normal supply of power has been rendered unavailable by circumstances beyond
536 the control of the owner or operator of the source and only as necessary to assure
537 the availability of the engine or turbine. An emergency standby unit may not be
538 operated to supplement a primary power source when the load capacity or rating
539 of the primary power source has been reached or exceeded.;

540

541 b) Operates exclusively for firefighting or flood control or both. ~~;~~

542

543 c) Operates in response to and during the existence of any officially declared disaster
544 or state of emergency.

545

546 d) Operates for the purpose of testing, repair or routine maintenance to verify its
547 readiness for emergency standby use.

548

549 The term does not include equipment used for purposes other than emergencies, as
550 described above, such as to supply power during high electric demand days.

551

552 (Source: Amended at 31 Ill. Reg. _____, effective _____)

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

7 PART 217
8 NITROGEN OXIDES EMISSIONS
9

10 SUBPART A: GENERAL PROVISIONS
11

- 12 Section
13 217.100 Scope and Organization
14 217.101 Measurement Methods
15 217.102 Abbreviations and Units
16 217.103 Definitions
17 217.104 Incorporations by Reference
18

19 SUBPART B: NEW FUEL COMBUSTION EMISSION SOURCES
20

- 21 Section
22 217.121 New Emission Sources
23

24 SUBPART C: EXISTING FUEL COMBUSTION EMISSION SOURCES
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- 26 Section
27 217.141 Existing Emission Sources in Major Metropolitan Areas
28

29 SUBPART K: PROCESS EMISSION SOURCES
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- 31 Section
32 217.301 Industrial Processes
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34 SUBPART O: CHEMICAL MANUFACTURE
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- 36 Section
37 217.381 Nitric Acid Manufacturing Processes
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39 SUBPART Q: STATIONARY RECIPROCATING INTERNAL
40 COMBUSTION ENGINES AND TURBINES
41

- 42 Section
43 217.386 Applicability

44	<u>217.388</u>	<u>Control and Maintenance Requirements</u>
45	<u>217.390</u>	<u>Emissions Averaging Plans</u>
46	<u>217.392</u>	<u>Compliance</u>
47	<u>217.394</u>	<u>Testing and Monitoring</u>
48	<u>217.396</u>	<u>Recordkeeping and Reporting</u>

49

50 SUBPART T: CEMENT KILNS

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52 Section

53	217.400	Applicability
54	217.402	Control Requirements
55	217.404	Testing
56	217.406	Monitoring
57	217.408	Reporting
58	217.410	Recordkeeping

59

60 SUBPART U: NO_x CONTROL AND TRADING PROGRAM FOR
61 SPECIFIED NO_x GENERATING UNITS

62 Section

63	217.450	Purpose
64	217.452	Severability
65	217.454	Applicability
66	217.456	Compliance Requirements
67	217.458	Permitting Requirements
68	217.460	Subpart U NO _x Trading Budget
69	217.462	Methodology for Obtaining NO _x Allocations
70	217.464	Methodology for Determining NO _x Allowances from the New Source Set-Aside
71	217.466	NO _x Allocations Procedure for Subpart U Budget Units
72	217.468	New Source Set-Asides for "New" Budget Units
73	217.470	Early Reduction Credits (ERCs) for Budget Units
74	217.472	Low-Emitter Requirements
75	217.474	Opt-In Units
76	217.476	Opt-In Process
77	217.478	Opt-In Budget Units: Withdrawal from NO _x Trading Program
78	217.480	Opt-In Units: Change in Regulatory Status
79	217.482	Allowance Allocations to Opt-In Budget Units

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81 SUBPART V: ELECTRIC POWER GENERATION

82

83 Section

84	217.521	Lake of Egypt Power Plant
85	217.700	Purpose
86	217.702	Severability

87	217.704	Applicability
88	217.706	Emission Limitations
89	217.708	NO _x Averaging
90	217.710	Monitoring
91	217.712	Reporting and Recordkeeping

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SUBPART W: NO_x TRADING PROGRAM FOR
ELECTRICAL GENERATING UNITS

96	Section	
97	217.750	Purpose
98	217.752	Severability
99	217.754	Applicability
100	217.756	Compliance Requirements
101	217.758	Permitting Requirements
102	217.760	NO _x Trading Budget
103	217.762	Methodology for Calculating NO _x Allocations for Budget Electrical Generating
104		Units (EGUs)
105	217.764	NO _x Allocations for Budget EGUs
106	217.768	New Source Set-Asides for "New" Budget EGUs
107	217.770	Early Reduction Credits for Budget EGUs
108	217.774	Opt-In Units
109	217.776	Opt-In Process
110	217.778	Budget Opt-In Units: Withdrawal from NO _x Trading Program
111	217.780	Opt-In Units: Change in Regulatory Status
112	217.782	Allowance Allocations to Budget Opt-In Units

113
114
115

SUBPART X: VOLUNTARY NO_x EMISSIONS REDUCTION PROGRAM

116	Section	
117	217.800	Purpose
118	217.805	Emission Unit Eligibility
119	217.810	Participation Requirements
120	217.815	NO _x Emission Reductions and the Subpart X NO _x Trading Budget
121	217.820	Baseline Emissions Determination
122	217.825	Calculation of Creditable NO _x Emission Reductions
123	217.830	Limitations on NO _x Emission Reductions
124	217.835	NO _x Emission Reduction Proposal
125	217.840	Agency Action
126	217.845	Emissions Determination Methods
127	217.850	Emissions Monitoring
128	217.855	Reporting
129	217.860	Recordkeeping

- 130 217.865 Enforcement
- 131
- 132 217.APPENDIX A Rule into Section Table
- 133 217.APPENDIX B Section into Rule Table
- 134 217.APPENDIX C Compliance Dates
- 135 217.APPENDIX D Non-Electrical Generating Units
- 136 217.APPENDIX E Large Non-Electrical Generating Units
- 137 217.APPENDIX F Allowances for Electrical Generating Units
- 138

139 AUTHORITY: Implementing Sections 9.9 and 10 and authorized by Sections 27 and 28.5 of the
 140 Environmental Protection Act [415 ILCS 5/9.9, 10, 27 and 28.5 (2004)].

141
 142 SOURCE: Adopted as Chapter 2: Air Pollution, Rule 207: Nitrogen Oxides Emissions, R71-
 143 23, 4 PCB 191, April 13, 1972, filed and effective April 14, 1972; amended at 2 Ill. Reg. 17, p.
 144 101, effective April 13, 1978; codified at 7 Ill. Reg. 13609; amended in R01-9 at 25 Ill. Reg.
 145 128, effective December 26, 2000; amended in R01-11 at 25 Ill. Reg. 4597, effective March 15,
 146 2001; amended in R01-16 and R01-17 at 25 Ill. Reg. 5914, effective April 17, 2001; amended in
 147 R07-19 at 31 Ill. Reg. _____, effective _____.

148
 149 SUBPART Q: STATIONARY RECIPROCATING INTERNAL
 150 COMBUSTION ENGINES AND TURBINES

151
 152 **Section 217.386 Applicability**

- 153
- 154 a) A stationary reciprocating internal combustion engine or turbine that meets the
 155 criteria in subsection (a)(1) or (a)(2) of this Section is an affected unit and is
 156 subject to the requirements of this Subpart Q.
- 157
- 158 1) The engine at nameplate capacity is rated at equal to or greater than 500
 159 bhp output; or
- 160
- 161 2) The turbine is rated at equal to or greater than 3.5 MW (4,694 bhp) output
 162 at 14.7 psia, 59°F, and 60 percent relative humidity.
- 163
- 164 b) Notwithstanding subsection (a) of this Section, an engine or turbine will not be an
 165 affected unit and is not subject to the requirements of this Subpart Q if the engine
 166 or turbine is or has:
- 167
- 168 1) Been used as an emergency or standby unit as defined by 35 Ill. Adm.
 169 Code 211.1920;
- 170
- 171 2) Been used for research or for the purposes of performance verification or
 172 testing;

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- 3) Been used to control emissions from landfills, where at least 50 percent of the heat input is gas collected from a landfill;
 - 4) Been used for agricultural purposes, including the raising of crops or livestock that are produced on site, but not associated businesses like packing operations, sale of equipment or repair;
 - 5) A nameplate capacity rated at less than 1500 bhp (1118 kW) output, mounted on a chassis or skids, designed to be moveable, and moved to a different source at least once every 12 months; or
 - 6) Been regulated under Subpart W or a subsequent federal NO_x Trading program for electrical generating units.
- c) If an exempt unit ceases to fulfill the criteria specified in subsection (b) of this Section, the owner or operator must notify the Agency in writing within 30 days after becoming aware that the exemption no longer applies and comply with the control requirements of this Subpart Q.
 - d) The requirements of this Subpart Q will continue to apply to any engine or turbine that has ever been subject to the control requirements of Section 217.388, even if the affected unit ceases to fulfill the rating requirements of subsection (a) of this Section or becomes eligible for an exemption pursuant to subsection (b) of this Section.

199 (Source: Added at 31 Ill. Reg. _____, effective _____)

200
201 **Section 217.388 Control and Maintenance Requirements**

202
203 On and after the applicable compliance date in Section 217.392, an owner or operator of an
204 affected unit must inspect and maintain affected units as required by subsection (d) of this
205 Section and comply with either the applicable emissions concentration as set forth in subsection
206 (a) of this Section, or the requirements for an emissions averaging plan as specified in subsection
207 (b) of this Section or the requirements for operation as a low usage unit as specified in subsection
208 (c) of this Section.

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215
- a) The owner or operator must limit the discharge from an affected unit into the atmosphere of any gases that contain NO_x to no more than:
 - 1) 150 ppmv (corrected to 15 percent O₂ on a dry basis) for spark-ignited rich-burn engines;

- 216 2) 210 ppmv (corrected to 15 percent O₂ on a dry basis) for spark-ignited
 217 lean-burn engines, except for existing spark-ignited Worthington engines
 218 that are not listed in Appendix G;
 219
- 220 3) 365 ppmv (corrected to 15 percent O₂ on a dry basis) for existing spark-
 221 ignited Worthington engines that are not listed in Appendix G;
 222
- 223 4) 660 ppmv (corrected to 15 percent O₂ on a dry basis) for diesel engines;
 224
- 225 5) 42 ppmv (corrected to 15 percent O₂ on a dry basis) for gaseous fuel-fired
 226 turbines; and
 227
- 228 6) 96 ppmv (corrected to 15 percent O₂ on a dry basis) for liquid fuel-fired
 229 turbines.
 230
- 231 b) The owner or operator must comply with the requirements of the applicable
 232 emissions averaging plan as set forth in Section 217.390.
 233
- 234 c) The owner or operator must operate the affected unit as a low usage unit pursuant
 235 to subsection (c)(1) or (c)(2) of this Section. Low usage units are not subject to
 236 the requirements of this Subpart Q except for the requirements to inspect and
 237 maintain the unit pursuant to subsection (d) of this Section, and retain records
 238 pursuant to Sections 217.396(b) and (c). Only one of the following exemptions
 239 may be utilized at a particular source:
 240
- 241 1) The potential to emit (PTE) is no more than 100 TPY NO_x aggregated
 242 from all engines and turbines located at the source that are not otherwise
 243 exempt pursuant to Section 217.386(b), and not complying with the
 244 requirements of subsection (a) or (b) of this Section and the NO_x PTE
 245 limit is contained in a federally enforceable permit; or
 246
- 247 2) The aggregate bhp-hr/MW-hr from all affected units located at the source
 248 that are not exempt pursuant to Section 217.386(b), and not complying
 249 with the requirements of subsection (a) or (b) of this Section, are less than
 250 or equal to the bhp-hrs and MW-hrs operation limit listed in subsections
 251 (c)(2)(A) and (c)(2)(B) of this Section. For units not located at a natural
 252 gas transmission compressor station or storage facility that drive a natural
 253 gas compressor station, the operation limits of subsections (c)(2)(A) and
 254 (B) of this Section must be contained in a federally enforceable permit.
 255
- 256 A) 8 mm bhp-hrs or less on an annual basis for engines; and
 257
- 258 B) 20,000 MW-hrs or less on an annual basis for turbines.

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- d) The owner or operator must inspect and perform periodic maintenance on the affected unit, in accordance with a Maintenance Plan that documents:
 - 1) For a unit not located at a natural gas transmission compressor station or storage facility, either:
 - A) The manufacturer's recommended inspection and maintenance of the applicable air pollution control equipment, monitoring device, and affected unit; or
 - B) If the original equipment manual is not available or substantial modifications have been made that require an alternative procedure for the applicable air pollution control device, monitoring device, or affected unit, the owner or operator must establish a plan for inspection and maintenance in accordance with what is customary for the type of air pollution control equipment, monitoring device, and affected unit.
 - 2) For a unit located at a natural gas compressor station or storage facility, the operator's maintenance procedures for the applicable air pollution control device, monitoring device, and affected unit.

(Source: Added at 31 Ill. Reg. _____, effective _____)

Section 217.390 Emissions Averaging Plans

- a) An owner or operator of certain affected units may comply through an emissions averaging plan.
 - 1) The unit or units that commenced operation before January 1, 2002 may be included in an emissions averaging plan as follows:
 - A) Units located at a single source or at multiple sources in Illinois, so long as the units are owned by the same company or parent company where the parent company has working control through stock ownership of its subsidiary corporations. A unit may be listed in only one emissions averaging plan;
 - B) Units that have a compliance date later than the control period for which the averaging plan is being used for compliance; and

- 301 C) Units that the owner or operator may claim as exempt pursuant to
 302 Section 217.386(b) but does not claim exempt. For as long as such
 303 a unit is included in an emissions averaging plan, it will be treated
 304 as an affected unit and subject to the applicable emission
 305 concentration limits, testing, monitoring, recordkeeping and
 306 reporting requirements.
 307
- 308 2) The following types of units may not be included in an emissions
 309 averaging plan:
 310
- 311 A) Units that commence operation after January 1, 2002, unless the
 312 unit replaces an engine or turbine that commenced operation on or
 313 before January 1, 2002, or it replaces an engine or turbine that
 314 replaced a unit that commenced operation on or before January 1,
 315 2002. The new unit must be used for the same purpose as the
 316 replacement unit. The owner or operator of a unit that is shut
 317 down and replaced must comply with the provisions of Section
 318 217.396(d)(3) before the replacement unit may be included in an
 319 emissions averaging plan.
 320
- 321 B) Units that the owner or operator is claiming are exempt pursuant to
 322 Section 217.386(b) or as a low usage unit pursuant to Section
 323 217.388(c).
 324
- 325 b) An owner or operator must submit an emissions averaging plan to the Agency by
 326 the applicable compliance date set forth in Section 217.392. The plan must
 327 include, but is not limited to:
 328
- 329 1) The list of affected units included in the plan by unit identification number
 330 and permit number.
 331
- 332 2) A sample calculation demonstrating compliance using the methodology
 333 provided in subsection (f) of this Section for both the ozone season and
 334 calendar year.
 335
- 336 c) An owner or operator may amend an emissions averaging plan only once per
 337 calendar year. An amended plan must be submitted to the Agency by May 1 of
 338 the applicable calendar year. If an amended plan is not received by the Agency
 339 by May 1 of the applicable calendar year, the previous year's plan will be the
 340 applicable emissions averaging plan.
 341
- 342 d) Notwithstanding subsection (c) of this Section, an owner or operator, and the
 343 buyer, if applicable:

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- 1) Must submit an updated emissions averaging plan or plans to the Agency within 60 days, if a unit that is listed in an emissions averaging plan is sold or taken out of service.
- 2) May amend its emissions averaging plan to include another unit within 30 days after discovering that the unit no longer qualifies as an exempt unit pursuant to Section 217.386(b) or as a low usage unit pursuant to Section 217.388(c).

e) An owner or operator must:

- 1) Demonstrate compliance for both the ozone season (May 1 through September 30) and the calendar year (January 1 through December 31) by using the methodology and the units listed in the most recent emissions averaging plan submitted to the Agency pursuant to subsection (b) of this Section; the higher of the monitoring or test data determined pursuant to Section 217.394; and the actual hours of operation for the applicable control period;
- 2) Notify the Agency by October 31 following the ozone season, if compliance cannot be demonstrated for that ozone season; and
- 3) Submit to the Agency, by January 31 following each calendar year, a compliance report containing the information required by Section 217.396(d)(4).

f) The total mass of actual NO_x emissions from the units listed in the emissions averaging plan must be equal to or less than the total mass of allowable NO_x emissions for those units for both the ozone season and calendar year. The following equation must be used to determine compliance:

$$N_{act} \leq N_{all}$$

Where:

$$N_{act} = \sum_{i=1}^n \frac{EM_{act(i)}}{}$$

$$N_{all} = \sum_{i=1}^n \frac{EM_{all(i)}}{}$$

N_{act} ≡ Total sum of the actual NO_x mass emissions from units included in the averaging plan for each fuel used (lbs per ozone season and calendar year).

N_{all} ≡ Total sum of the allowable NO_x mass emissions from units included in the averaging plan for each fuel used (lbs per ozone season and calendar year).

$EM_{all(i)}$ ≡ Total mass of allowable NO_x emissions in lbs for a unit as determined in subsection (g)(2), (g)(3), (g)(4), (g)(5), or (g)(6) of this Section.

$EM_{act(i)}$ ≡ Total mass of actual NO_x emissions in lbs for a unit as determined in subsection (g)(1), (g)(3), (g)(5) or (h) of this Section.

i ≡ Subscript denoting an individual unit and fuel used.

n ≡ Number of different units in the averaging plan.

380
381 g) For each unit in the averaging plan, and each fuel used by a unit, determine actual
382 and allowable NO_x emissions using the following equations, except as provided
383 for in subsection (h) of this Section:
384

385 1) Actual emissions must be determined as follows:
386

$$EM_{act(i)} = E_{act(i)} \times H_i$$

$$E_{act(i)} = \frac{\sum_{j=1}^m C_{d(act(j))} \times F_d \times \left(\frac{20.9}{20.9 - \%O_{2d(j)}} \right)}{m}$$

390
391 2) Allowable emissions must be determined as follows:
392

$$EM_{all(i)} = E_{all(i)} \times H_i$$

$$E_{all(i)} = \frac{\sum_{j=1}^m C_{d(all)} \times F_d \times \left(\frac{20.9}{20.9 - \%O_{2d(j)}} \right)}{m}$$

393
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397 Where:
398

$EM_{act(i)}$ ≡ Total mass of actual NO_x emissions in lbs for a unit.

$EM_{all(i)}$ ≡ Total mass of allowable NO_x emissions in lbs for a unit.

E_{act} ≡ Actual NO_x emission rate (lbs/mmBtu) calculated according to the above equation.

- E_{all} \equiv Allowable NO_x emission rate (lbs/mmBtu) calculated according to the above equation.
- H \equiv Heat input (mmBtu/ozone season or mmBtu/year) calculated from fuel flow meter and the heating value of the fuel used.
- $C_{d(act)}$ \equiv Actual concentration of NO_x in lb/dscf (ppmv x 1.194 x 10⁻⁷) on a dry basis for the fuel used. Actual concentration is determined on each of the most recent test runs or monitoring passes performed pursuant to Section 217.394, whichever is higher.
- $C_{d(all)}$ \equiv Allowable concentration of NO_x in lb/dscf (allowable emission limit in ppmv specified in Section 217.388(a), except as provided for in subsection (g)(6) of this Section, if applicable, multiplied by 1.194 x 10⁻⁷) on a dry basis for the fuel used.
- F_d \equiv The ratio of the gas volume of the products of combustion to the heat content of the fuel (dscf/mmBtu) as given in the table of F Factors included in 40 CFR 60, appendix A, Method 19 or as determined using 40 CFR 60, appendix A, Method 19.
- $\%O_{2d}$ \equiv Concentration of oxygen in effluent gas stream measured on a dry basis during each of the applicable tests or monitoring runs used for determining emissions, as represented by a whole number percent, e.g., for 18.7%O_{2d}, 18.7 would be used.
- i \equiv Subscript denoting an individual unit and the fuel used.
- j \equiv Subscript denoting each test run or monitoring pass for an affected unit for a given fuel.
- m \equiv The number of test runs or monitoring passes for an affected unit using a given fuel.

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3) Electric-Powered Replacement Units

- A) For a replacement unit that is electric-powered, the allowable NO_x emissions from the affected unit that was replaced should be used in the averaging calculations and the actual NO_x emissions for the electric-powered replacement unit ($EM_{(i)act\ elec}$) are zero. Allowable NO_x emissions for the electric-powered replacement are calculated using the actual total bhp-hrs generated by the electric-powered replacement unit on an ozone season and on an annual basis multiplied by the allowable NO_x emission rate in lb/bhp-hr of the replaced unit.

412 B) The allowable mass of NO_x emissions from an electric-powered
 413 replacement unit (EM_{(i)all elec}) must be determined by multiplying
 414 the nameplate capacity of the unit by the hours operated during the
 415 ozone season or annually and the allowable NO_x emission rate of
 416 the replaced unit (E_{all rep}) in lb/mmBtu converted to lb/bhp-hr. For
 417 this calculation the following equation should be used:

$$EM_{all\ elec(i)} = bhp \times OP \times F \times E_{all\ rep(i)}$$

418
 419
 420
 421 Where:
 422

EM_{all elec(i)} = Mass of allowable NO_x emissions from the
electric-powered replacement unit in pounds
per ozone season or calendar year.

bhp = Nameplate capacity of the electric-powered
replacement unit in brake horsepower.

OP = Operating hours during the ozone season or
calendar year.

F = Conversion factor of 0.0077 mmBtu/bhp-hr.

E_{all rep(i)} = Allowable NO_x emission rate (lbs/mmBtu) of
the replaced unit.

i = Subscript denoting an individual electric unit
and the fuel used.

423
 424 4) For a replacement unit that is not electric, the allowable NO_x emissions
 425 rate used in the equations set forth in subsection (g)(2) of this Section
 426 must be either:

427
 428 A) Prior to the applicable compliance date for the replaced unit
 429 pursuant to Section 217.392, the higher of the actual NO_x
 430 emissions as determined by testing or monitoring data or the
 431 applicable uncontrolled NO_x emissions factor from Compilation of
 432 Air Pollutant Emission Factors: AP-42, Volume I: Stationary
 433 Point and Area Sources, as incorporated by reference in Section
 434 217.104 for the unit that was replaced; or

435
 436 B) On and after the applicable compliance date for the replaced unit
 437 pursuant to Section 217.392, the applicable emissions
 438 concentration for the type of unit replaced, as established by
 439 Section 217.388(a).

440
 441 5) For a unit that is replaced with purchased power, the allowable NO_x
 442 emissions rate used in the equations set forth in subsection (g)(2) of this

Section must be the emissions concentration set forth in Section 217.388(a) or subsection (g)(6) of this Section, when applicable, for the type of unit that was replaced. For owners or operators replacing units with purchased power, the annual hours of operations that must be used are the calendar year hours of operation for the unit that was shut down, averaged over the three-year period prior to the shutdown. The actual NO_x emissions for the units replaced by purchased power (EM_{(i)act}) are zero. These units may be included in any emissions averaging plan for no more than five years beginning with the calendar year that the replaced unit is shut down.

6) For units that have a later compliance date, allowable emissions rate used in the equations set forth in subsection (g)(2) of this Section must be:

A) Prior to the applicable compliance date pursuant to Section 217.392, the higher of the actual NO_x emissions as determined by testing or monitoring data or the applicable uncontrolled NO_x emissions factor from Compilation of Air Pollutant Emission Factors: AP-42, Volume I: Stationary Point and Areas Sources, as incorporated by reference in Section 217.104; and

B) On and after the units' applicable compliance date pursuant to Section 217.392, the applicable emissions concentration for that type of unit, as established by Section 217.388(a).

h) For units that use CEMS the data must show that the total mass of actual NO_x emissions determined pursuant to subsection (h)(1) of this Section is less than or equal to the allowable NO_x emissions calculated in accordance with the equations in subsections (f) and (h)(2) of this Section for both the ozone season and calendar year. The equations in subsection (g) of this Section will not apply.

1) The total mass of actual NO_x emissions in lbs for a unit (EM_{act}) must be the sum of the total mass of actual NO_x emissions from each affected unit using CEMS data collected in accordance with 40 CFR 60 or 75, or alternate methodology that has been approved by the Agency or USEPA and included in a federally enforceable permit.

2) The allowable NO_x emissions must be determined as follows:

$$EM_{(all)} = \sum_{i=1}^m (Cd_i * flowstack_i * 1.194 \times 10^{-7})$$

485
486

Where:

- $EM_{all(i)}$ = Total mass of allowable NO_x emissions in lbs for a unit.
- $Flow_i$ = Stack flow (dscf/hr) for a given stack.
- Cd_i = Allowable concentration of NO_x (ppmv) specified in Section 217.388(a) for a given stack. (1.194×10^{-7}) converts to lb/dscf.
- i = subscript denoting each hour of operation of a given unit.
- m = Total number of hours of operation of a unit.
- i = Subscript denoting an individual unit and the fuel used.

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(Source: Added at 31 Ill. Reg. _____, effective _____)

490 **Section 217.392 Compliance**

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- a) An owner or operator of an affected unit may not operate that unit unless it meets the applicable concentration limit in Section 217.388(a), or is included in an emissions averaging plan pursuant to Section 217.388(b), or meets the low usage requirements pursuant to Section 217.388(c), and complies with all other applicable requirements of this Subpart Q by the earliest applicable date, listed as follows:
 - 1) On and after May 1, 2007, an owner or operator of an affected engine listed in Appendix G may not operate the affected engine unless the requirements of this Subpart Q are met or the affected engine is exempt pursuant to Section 217.386(b);
 - 2) On and after January 1, 2009, an owner or operator of an affected unit that is located in Cook, DuPage, Aux Sable Township and Goose Lake Township in Grundy, Kane, Oswego Township in Kendall, Lake, McHenry, Will, Jersey, Madison, Monroe, Randolph Township in Randolph, or St. Clair County, and is not listed in Appendix G may not operate the affected unit unless the requirements of this Subpart Q are met or the affected unit is exempt pursuant to Section 217.386(b);
 - 3) On and after January 1, 2011, an owner or operator of an affected engine with a nameplate capacity rated at 1500 bhp or more, and affected turbines rated at 5 MW (6,702 bhp) or more that is not subject to subsection (a)(1) or (a)(2) of this Section, may not operate the affected unit unless the

516 requirements of this Subpart Q are met or the affected unit is exempt
517 pursuant to Section 217.386(b); or

518
519 4) On and after January 1, 2012, an owner or operator of an affected engine
520 with a nameplate capacity rated at less than 1500 bhp, or an affected
521 turbine rated at less than 5 MW (6,702 bhp) that is not subject to
522 subsection (a)(1), (a)(2) or (a)(3) of this Section, may not operate the
523 affected engine or turbine unless the requirements of this Subpart Q are
524 met or the affected unit is exempt pursuant to Section 217.386(b).
525

526 b) Owners and operators of an affected unit may use NO_x allowances to meet the
527 compliance requirements in Section 217.388 as specified in this subsection. An
528 NO_x allowance is defined as an allowance used to meet the requirements of an
529 NO_x trading program administered by USEPA where one allowance is equal to
530 one ton of NO_x emissions.
531

532 1) NO_x allowances may only be used under the following circumstances:
533

534 A) An anomalous or unforeseen operating scenario inconsistent with
535 historical operations for a particular ozone season or calendar year
536 that causes an emissions exceedance.
537

538 B) To achieve compliance no more than twice in any rolling five-year
539 period.
540

541 C) For a unit that is not listed in Appendix G.
542

543 2) The owner or operator of the affected unit must surrender to the Agency
544 one NO_x allowance for each ton or portion of a ton of NO_x by which
545 actual emissions exceed allowed emissions. For noncompliance with a
546 seasonal limit, an NO_x ozone season allowance must be used. For
547 noncompliance with the emissions concentration limits in Section
548 217.388(a) or an annual limitation in an emissions averaging plan, only an
549 NO_x annual allowance may be used.
550

551 3) The owner or operator must submit a report documenting the
552 circumstances that required the use of NO_x allowances, identify what
553 actions will be taken in subsequent years to address these circumstances,
554 and transfer the NO_x allowances to the Agency's federal NO_x retirement
555 account. The report and the transfer of allowances must be submitted by
556 October 31 for exceedances during the ozone season and March 1 for
557 exceedances of the emissions concentration or the annual emission

558 averaging plan limits. The report must contain the NATS serial numbers
 559 of the NO_x allowances.

560 (Source: Added at 31 Ill. Reg. _____, effective _____)
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 562

563 **Section 217.394 Testing and Monitoring**
 564

565 a) An owner or operator of an engine or turbine must conduct an initial performance
 566 test pursuant to subsection (c)(1) or (c)(2) of this Section as follows:
 567

568 1) By May 1, 2007, for affected engines listed in Appendix G. Performance
 569 tests must be conducted on units listed in Appendix G, even if the unit is
 570 included in an emissions averaging plan pursuant to Section 217.388(b).
 571

572 2) By the applicable compliance date set forth in Section 217.392, or within
 573 the first 876 hours of operation per calendar year, whichever is later:
 574

575 A) For affected units not listed in Appendix G that operate more than
 576 876 hours per calendar year; and
 577

578 B) For units that are not affected units that are included in an
 579 emissions averaging plan and operate more than 876 hours per
 580 calendar year.
 581

582 3) Once within the five-year period after the applicable compliance date set
 583 forth in Section 217.392:
 584

585 A) For affected units that operate fewer than 876 hours per calendar
 586 year; and
 587

588 B) For units that are not affected units that are included in an
 589 emissions averaging plan and that operate fewer than 876 hours per
 590 calendar year
 591

592 b) An owner or operator of an engine or turbine must conduct subsequent
 593 performance tests pursuant to subsection (c)(1) or (c)(2) of this Section as
 594 follows:
 595

596 1) For affected engines listed in Appendix G and all units included in an
 597 emissions averaging plan, once every five years. Testing must be
 598 performed in the calendar year by May 1 or within 60 days after starting
 599 operation, whichever is later;
 600

- 601 2) If the monitored data shows that the unit is not in compliance with the
602 applicable emissions concentration or emissions averaging plan, the owner
603 or operator must report the deviation to the Agency in writing within 30
604 days and conduct a performance test pursuant to subsection (c) of this
605 Section within 90 days after the determination of noncompliance; and
606
- 607 3) When, in the opinion of the Agency or USEPA, it is necessary to conduct
608 testing to demonstrate compliance with Section 217.388, the owner or
609 operator of a unit must, at his or her own expense, conduct the test in
610 accordance with the applicable test methods and procedures specified in
611 this Section within 90 days after receipt of a notice to test from the
612 Agency or USEPA.
613
- 614 c) Testing Procedures:
615
- 616 1) For an engine: The owner or operator must conduct a performance test
617 using Method 7 or 7E of 40 CFR 60, appendix A, as incorporated by
618 reference in Section 217.104. Each compliance test must consist of three
619 separate runs, each lasting a minimum of 60 minutes. NO_x emissions must
620 be measured while the affected unit is operating at peak load. If the unit
621 combusts more than one type of fuel (gaseous or liquid), including backup
622 fuels, a separate performance test is required for each fuel.
623
- 624 2) For a turbine: The owner or operator must conduct a performance test
625 using the applicable procedures and methods in 40 CFR 60.4400, as
626 incorporated by reference in Section 217.104.
627
- 628 d) Monitoring: Except for those years in which a performance test is conducted
629 pursuant to subsection (a) or (b) of this Section, the owner or operator of an
630 affected unit or a unit included in an emissions averaging plan must monitor NO_x
631 concentrations annually, once between January 1 and May 1 or within the first
632 876 hours of operation per calendar year, whichever is later. If annual operation
633 is less than 876 hours per calendar year, each affected unit must be monitored at
634 least once every five years. Monitoring must be performed as follows:
635
- 636 1) A portable NO_x monitor and utilizing method ASTM D6522-00, as
637 incorporated by reference in Section 217.104, or a method approved by
638 the Agency must be used. If the engine or turbine combusts both liquid
639 and gaseous fuels as primary or backup fuels, separate monitoring is
640 required for each fuel.
641
- 642 2) NO_x and O₂ concentrations measurements must be taken three times for a
643 duration of at least 20 minutes. Monitoring must be done at highest

644 achievable load. The concentrations from the three monitoring runs must
 645 be averaged to determine whether the affected unit is in compliance with
 646 the applicable emissions concentration or emissions averaging plan, as
 647 specified in Section 217.388.

- 649 e) Instead of complying with the requirements of subsections (a), (b), (c) and (d) of
 650 this Section, an owner or operator may install and operate a CEMS on an affected
 651 unit that meets the applicable requirements of 40 CFR 60, subpart A and appendix
 652 B, incorporated by reference in Section 217.104, and complies with the quality
 653 assurance procedures specified in 40 CFR 60, appendix F or 40 CFR 75, as
 654 incorporated by reference in Section 217.104, or an alternate procedure as
 655 approved by the Agency or USEPA in a federally enforceable permit. The CEMS
 656 must be used to demonstrate compliance with the applicable emissions
 657 concentration or emissions averaging plan only on an ozone season and annual
 658 basis.

659
 660 (Source: Added at 31 Ill. Reg. _____, effective _____)
 661

662 **Section 217.396 Recordkeeping and Reporting**

- 663
 664 a) Recordkeeping. The owner or operator of a unit included in an emissions
 665 averaging plan or an affected unit that is not exempt pursuant to Section
 666 217.386(b) and is not subject to the low usage exemption of Section 217.388(c)
 667 must maintain records that demonstrate compliance with the requirements of this
 668 Subpart Q, which include, but are not limited to:
- 669
 670 1) Identification, type (e.g., lean-burn, gas-fired), and location of each unit.
 - 671
 672 2) Calendar date of the record.
 - 673
 674 3) The number of hours the unit operated on a monthly basis and during each
 675 ozone season.
 - 676
 677 4) Type and quantity of the fuel used on a daily basis.
 - 678
 679 5) The results of all monitoring performed on the unit and reported
 680 deviations.
 - 681
 682 6) The results of all tests performed on the unit.
 - 683
 684 7) The plan for performing inspection and maintenance of the units, air
 685 pollution control equipment, and the applicable monitoring device,
 686 pursuant to Section 217.388(d).

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- 8) A log of inspections and maintenance performed on the unit's air emissions, monitoring device, and air pollution control device. These records must include, at a minimum, date, load levels and any manual adjustments, along with the reason for the adjustment (e.g., air to fuel ratio, timing or other settings).
 - 9) If complying with the emissions averaging plan provisions of Sections 217.388(b) and 217.390, copies of the calculations used to demonstrate compliance with the ozone season and annual control period limits, noncompliance reports for the ozone season, and ozone and annual control period compliance reports submitted to the Agency.
 - 10) Identification of time periods for which operating conditions and pollutant data were not obtained by either the CEMS or alternate monitoring procedures, including the reasons for not obtaining sufficient data and a description of corrective actions taken.
 - 11) Any NO_x allowance reconciliation reports submitted pursuant to Section 217.392(e).
- b) The owner or operator of an affected unit that is complying with the low usage provisions of Section 217.388(c) must:
- 1) For each unit complying with Section 217.388(c)(1), maintain a record of the NO_x emissions for each calendar year; or
 - 2) For each unit complying with Section 217.388(c)(2), maintain a record of bhp or MW hours operated each calendar year.
- c) The owner or operator of an affected unit or unit included in an emissions averaging plan must maintain the records required by subsections (a) and (b) of this Section for a period of five years at the source at which the unit is located. The records must be made available to the Agency and USEPA upon request.
- d) Reporting requirements:
- 1) The owner or operator must notify the Agency in writing 30 days and five days prior to testing, pursuant to Section 217.394(a) and:
 - A) If, after the 30-days notice for an initially scheduled test is sent, there is a delay (e.g., due to operational problems) in conducting the performance test as scheduled, the owner or operator of the unit

- 730 must notify the Agency as soon as possible of the delay in the
 731 original test date either by providing at least seven days prior
 732 notice of the rescheduled date of the performance test or by
 733 arranging a new test date with the Agency by mutual agreement;
 734
- 735 B) Provide a testing protocol to the Agency 60 days prior to testing;
 736 and
 737
- 738 C) Not later than 30 days after the completion of the test, submit the
 739 results of the test to the Agency.
 740
- 741 2) Pursuant to the requirements for monitoring in Section 217.394(d), the
 742 owner or operator of the unit must report to the Agency any monitored
 743 exceedances of the applicable NO_x concentration from Section 217.388(a)
 744 or (b) within 30 days after performing the monitoring.
 745
- 746 3) Within 90 days after permanently shutting down an affected unit or a unit
 747 included in an emissions averaging plan, the owner or operator of the unit
 748 must withdraw or amend the applicable permit to reflect that the unit is no
 749 longer in service.
 750
- 751 4) If demonstrating compliance through an emissions averaging plan:
 752
- 753 A) By October 31 following the applicable ozone season, the owner or
 754 operator must notify the Agency if he or she cannot demonstrate
 755 compliance for that ozone season; and
 756
- 757 B) By January 30 following the applicable calendar year, the owner or
 758 operator must submit to the Agency a report that demonstrates the
 759 following:
 760
- 761 i) For all units that are part of the emissions averaging plan,
 762 the total mass of allowable NO_x emissions for the ozone
 763 season and for the annual control period;
 764
- 765 ii) The total mass of actual NO_x emissions for the ozone
 766 season and annual control period for each unit included in
 767 the averaging plan;
 768
- 769 iii) The calculations that demonstrate that the total mass of
 770 actual NO_x emissions are less than the total mass of
 771 allowable NO_x emissions using equations in Section
 772 217.390(f) and (g); and

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- iv) The information required to determine the total mass of actual NO_x emissions and the calculations performed in subsection (d)(4)(B)(iii) of this Section.
 - 5) If operating a CEMS, the owner or operator must submit an excess emissions and monitoring systems performance report in accordance with the requirements of 40 CFR 60.7(c) and 60.13 or 40 CFR 75, incorporated by reference in Section 217.104, or an alternate procedure approved by the Agency or USEPA and included in a federally enforceable permit.
 - 6) If using NO_x allowances to comply with the requirements of Section 217.388, reconciliation reports as required by Section 217.392(b)(3).

(Source: Added at 31 Ill. Reg. _____, effective _____)