From: McGill, Richard
To: Brown, Don
Cc: Salk, Chloe
Subject: FW: R23-18(A)
Date: Thursday, September 7, 2023 2:13:23 PM
Attachments: 35-212RG-P r01 (47-35).docx
35-215RG-P r01 (47-35).docx
35-216RG-P r01 (47-35).docx
35-217RG-P r01 (47-35).docx
image001.png

Good afternoon, Mr. Clerk:

Please docket this email from JCAR staff, including its four attachments, as a public comment in R23-18(A).

Thank you.

Richard R. McGill, Jr.
Senior Attorney for Research & Writing
Illinois Pollution Control Board
60 E. Van Buren St., Suite 630
Chicago, Illinois 60605
richard.mcgill@illinois.gov (312) 814-6983

From: Eastvold, Jonathan C. <JonathanE@ilga.gov>
Sent: Thursday, September 7, 2023 2:07 PM
To: McGill, Richard <Richard.McGill@illinois.gov>
Subject: [External] R23-18(A)

Richard –

We had a number of suggestions/questions on these rulemakings. I'm enclosing them all in the same message thread for the sake of convenience.

Thanks for your time and consideration.

Sincerely,

Jonathan C. Eastvold, Ph.D.
Rules Analyst III

Illinois General Assembly
Joint Committee on Administrative Rules
700 Stratton Building
Springfield IL 62706

217-524-9010

Part 212

1. In line 207, strike "regulations of" and add "emissions limits in". After "defense" add "against enforcement under this Subpart B".

2. In line 210, after "212.203" add a comma.

3. In line 230, strike "to" and add "against enforcement for".

4. In line 232, after "days" add "after the first performance test".

5. Change lines 245-246 to "the applicable limit in Section 212.122(a) or 212.123(a), compliance with that limit may".

6. In line 256, change "Alternative Averaging Period" to lowercase.

7. In lines 256-257, change "Section 212.124" to "subsection".

8. In line 257, change "shall" to "must" and "such" to "these".

9. In line 258, delete "shall". Change "such" to "these". Change "Illinois EPA" to "the Agency".

10. In line 261, change "such" to "each" and "shall" to "must".

11. In line 269, delete "or not".

12. In line 271, change "shall" to "must". Change "any" to "all".

13. In line 276, change "that requires utilization" to "requiring the use".

14. In line 277, change "Alternative Averaging Period" to lowercase. Change "Section 212.124" to "subsection".

15. In line 279, after "explanation" add "of".

16. In lines 284-285, change "Section 212.124" to "subsection".

17. In line 287, change "such" to "each" and "shall" to "must".

18. In line 290, after "time," add "and".

19. In lines 291-2, change "in excess of 20 or 30 percent, as applicable," to "exceeding the applicable limit in Section 212.122(a) or 212.123(a)".

20. In line 299, change "that requires utilization" to "requiring the use".

21. In line 300, change "Alternative Averaging Period" to lowercase. Change "Section 212.124" to "subsection".

22. In lines 302-303, change "Sections 212.124" to "subsections".

23. In lines 308-309, change "Alternative Averaging Period" to lowercase. Change "Section 212.124" to "subsection".

24. In lline 310, change "shall" to "must".

25. In line 311, after "such" add "an".

26. In line 311, after "telephone" add "at 217-782-3397. After that, this person must comply with".

27. Delete lines 312-314.

28. In line 315, delete "reasonable".

29. In line 317, change "Alternative Averaging Period" to lowercase.

30. In line 318, change "Section 212.124" to "subsection". Change "Work Practices" to lowercase.

Lines 321 and 324: "good engineering practices" – Please incorporate by reference the standard to be enforced.

31. In line 322, after "malfunction" add a comma.

32. In line 328, change "start-up" to "startup".

33. In lines 330-331, delete ", as applicable pursuant to Section 212.123(a),".

34. In lines 332-333, delete "demonstrated for that six-minute period as follows. Compliance with that six-minute period may be".

35. In line 333, after "based on" add "the average of nonconsecutive opacity readings taken during a 1-hour period using". Change "C.F.R." to "CFR".

36. In line 334, change "A" to "A-4".

37. In lines 334-335, delete "opacity readings the average of non-consecutive opacity readings during a 1-hour period".

38. In lines 335-336, change "; provided, however, that" to ". However,".

39. In line 336, after "three" delete the comma.

40. In line 337, change ", in the event that" to "if".

41. In line 338, change "start-up" to "startup".

42. In line 339, change "duration" to "time".

43. In line 341, change "1800°F" to "1800 °F".

44. In line 351, strike "shall" and add "may".

45. In line 352, strike "one hour" and add "one-hour".

46. In lines 356-357 and 359, strike "of this Section".

47. In line 360, strike "shall" and add "can". Strike "by". After "the" add "following".

48. In line 373, strike "in excess of" and add "above".

49. In line 389, change "shall be allowed to" to "may".

50. In line 394, change "1800°F" to "1800 °F". Change "start-up" to "startup".

Line 395: I'm really confused. Is the three-hour rolling average the alternative standard that must be met, or is it that the 720 hours per year don't start until the emissions limits are exceeded using the three-hour rolling average?

51. In line 397, change "shall" to "may".

52. In line 398, change "shall not be" to "is not".

53. In line 400, change "the minimum operating temperature in subsection (d)(1)" to "1800 °F".

54. In line 405, change "in subsection (d)(1)" to "of 1800 °F".

55. In line 410, change "400°F" to "400 °F".

56. In line 413, change "duration" to "time".

57. In line 414, change "1800°F" to "1800 °F".

Lines 415-416: "good air pollution control practices" – Please incorporate by reference the standard to be enforced.

58. In line 419, after "subsection" add "(d)". Delete the commas.

59. In lines 420-422, change "the minimum operating temperature specified in this subsection" to "1800 °F".

Part 215

1. In line 354, strike "which" and add "that". Strike "and/".

2. In lines 363 and 365, change "start-up" to "startup".

3. In line 364, change "shall be" to "is".

4. In line 366, change "; provided, however, that" to ". However,". Change "shall" to "may".

5. In lines 367 and 368, change "start-up" to "startup".

6. In line 368, change "duration" to "time".

7. In line 370, change "1800°F" to "1800 °F".

8. In line 371, change "start-up" to "startup".

9. In line 374, delete "reasonably".

10. In line 377, change "400°F" to "400 °F".

Line 382: "good air pollution control practices": Please incorporate by reference the standard that will be enforced here.

11. In line 385, after "subsection" add "(b)". Delete the commas.

12. In line 386, change "start-up" to "startup".

Part 216

1. In line 71, delete "Part" twice.

2. In line 80, strike "shall" and add "may".

3. In line 86, change "can elect to comply" to "must comply either".

4. In line 87, after "alternate" add "non-numerical".

5. In line 89, change the hyphen to "through".

6. In line 97, strike "shall" and add "may".

7. In line 99, strike "such" and add "that".

8. In lines 100 and 101, strike "such" and add "the".

9. In lines 107 and 113, strike the comma.

10. In lines 118-119, change "can elect to comply" to "must comply either".

11. In line 119, after "alternate" add "non-numerical".

Part 217

1. In line 224, strike "shall" and add "may".

2. In line 230, change "Operating Periods" to lowercase.

3. In line 231, delete "during" and change "Startup" and "Shutdown" to lowercase.

4. In lines 233-234, change "Operating Periods" to lowercase.

5. In lines 234 and 236, change "Startup" and "Shutdown" to lowercase.

Lines 239-240: "good air pollution control practices": Please incorporate by reference any standards that will be enforced.

6. In lines 242 and 244, change "Startup" and "Shutdown" to lowercase.

7. In line 245, change "Startup" to lowercase.

8. In line 246, after the first comma add "the". After "and" add "the". Change"Startups" to lowercase.

9. In lines 256-257, change "Startup" and "Shutdown" to lowercase.

Line 261: Are the startup and shutdown exceptions intended to apply only to new sources, or to existing sources as well?

10. In line 279, after "basis)" add a space.

11. In line 297, change "shall mean" to "means".

12. In line 299, change "Startup" and "Shutdown" to lowercase.

13. In line 302, change "shall mean" to "means". After "of" add "the".

14. In lines 302-303, delete "operations of the".

15. In line 305, change "the cessation of feed of compressed air to the process" to "when compressed air is no longer being fed into the process".

16. In line 307, change "shall mean" to " means". After "initiating" add "the".

17. In line 308, delete "operations at a".

18. In lines 308-309, change "prior to the initiation of the feed of ammonia to the process" to "before ammonia is first fed into the process".

19. In line 310, change "such initiation of the feed of ammonia" to "ammonia is first fed into the process".

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

PART 212
VISIBLE AND PARTICULATE MATTER EMISSIONS

SUBPART A: GENERAL

SUBPART B: VISIBLE EMISSIONS

SUBPART D: PARTICULATE MATTER EMISSIONS FROM INCINERATORS

SUBPART E: PARTICULATE MATTER EMISSIONS FROM FUEL COMBUSTION EMISSION UNITS

SUBPART N: FOOD MANUFACTURING

SUBPART O: PETROLEUM REFINING, PETROCHEMICAL AND CHEMICAL MANUFACTURING

SUBPART Q: STONE, CLAY, GLASS AND CONCRETE MANUFACTURING

SUBPART R: PRIMARY AND FABRICATED METAL PRODUCTS AND MACHINERY MANUFACTURE

SUBPART S: AGRICULTURE

SUBPART T: CONSTRUCTION AND WOOD PRODUCTS

SUBPART U: ADDITIONAL CONTROL MEASURES

212.Illustration F Granite City Vicinity Map

AUTHORITY: Implementing Section 10 and authorized by Sections 27 and 28.5 of the Environmental Protection Act [415 ILCS 5/10, 27 and 28.5].

SOURCE: Adopted as Chapter 2: Air Pollution, Rules 202 and 203: Visual and Particulate Emission Standards and Limitations, R71-23, 4 PCB 191, filed and effective April 14, 1972; amended in R77-15, 32 PCB 403, at 3 Ill. Reg. 5, p. 798, effective February 3, 1979; amended in R78-10, 35 PCB 347, at 3 Ill. Reg. 39, p. 184, effective September 28, 1979; amended in R78-11, 35 PCB 505, at 3 Ill. Reg. 45, p. 100, effective October 26, 1979; amended in R78-9, 38 PCB 411, at 4 Ill. Reg. 24, p. 514, effective June 4, 1980; amended in R79-11, 43 PCB 481, at 5 Ill. Reg. 11590, effective October 19, 1981; codified at 7 Ill. Reg. 13591; amended in R82-1 (Docket A), at 10 Ill. Reg. 12637, effective July 9, 1986; amended in R85-33 at 10 Ill. Reg. 18030, effective October 7, 1986; amended in R84-48 at 11 Ill. Reg. 691, effective December 18, 1986; amended in R84-42 at 11 Ill. Reg. 1410, effective December 30, 1986; amended in R82-1 (Docket B) at 12 Ill. Reg. 12492, effective July 13, 1988; amended in R91-6 at 15 Ill. Reg. 15708, effective October 4, 1991; amended in R89-7(B) at 15 Ill. Reg. 17710, effective November 26, 1991; amended in R91-22 at 16 Ill. Reg. 7880, effective May 11, 1992; amended in R91-35 at 16 Ill. Reg. 8204, effective May 15, 1992; amended in R93-30 at 18 Ill. Reg. 11587, effective July 11, 1994; amended in R96-5 at 20 Ill. Reg. 7605, effective May 22, 1996; amended in R23-18 at 47 Ill. Reg. 12107, effective July 25, 2023; amended in R23-18(A) at 47 Ill. Reg. _____, effective _____.

SUBPART B: VISIBLE EMISSIONS

Section 212.124 Exceptions

a) Sections 212.122 and 212.123 will not apply to emissions of water or water vapor from an emission unit.

b) An emission unit that has obtained an adjusted opacity standard in compliance with Section 212.126 will be subject to that standard rather than the limitations of Section 212.122 or 212.123.

c) Compliance with the particulate regulations of this Part will constitute a defense.

1) For all emission units that are not subject to Chapters 111 or 112 of the CAA and Sections 212.201, 212.202, 212.203 or 212.204 but are subject to Sections 212.122 or 212.123: the opacity limitations of Sections 212.122 and 212.123 will not apply if it is shown that the emission unit was, at the time of emission, in compliance with the applicable particulate emissions limitations of Subparts D through T.

2) For all emission units that are not subject to Chapters 111 or 112 of the CAA but are subject to Sections 212.201, 212.202, 212.203 or 212.204:

A) An exceedance of the limitations of Section 212.122 or 212.123 will constitute a violation of the applicable particulate limitations of Subparts D through T. It will be a defense to a violation of the applicable particulate limitations if, during a subsequent performance test conducted within a reasonable time not to exceed 60 days, under the same operating conditions for the unit and the control devices, and in accordance with Method 5, 40 CFR 60, incorporated by reference in Section 212.113, the owner or operator shows that the emission unit is in compliance with the particulate emission limitations.

B) It will be a defense to an exceedance of the opacity limit if, during a subsequent performance test conducted within a reasonable time not to exceed 60 days, under the same operating conditions of the emission unit and the control devices, and in accordance with Method 5, 40 CFR part 60, Appendix A, incorporated by reference in Section 212.113, the owner or operator shows that the emission unit is in compliance with the allowable particulate emissions limitation while, simultaneously, having visible emissions equal to or greater than the opacity exceedance as originally observed.

d) During times of startup of coal-fired boiler 1 or 2 at the Baldwin Energy Complex, coal-fired boiler 1 or 2 at the Kincaid Power Station, coal-fired boiler 1 at Newton Power Station, or coal-fired boiler 51, 52, 61, or 62 at the Powerton Generating Station, or of malfunction or breakdown of these boilers or the air pollution control equipment serving these boilers, when average opacity exceeds 20 or 30 percent for a six-minute period, as applicable pursuant to Section 212.122(a) or 212.123(a), compliance with Section 212.122(a) or 212.123(a) may alternatively be demonstrated for that six-minute period as follows:

1) Alternative Averaging Period. Compliance for that six-minute period may be determined based on a three-hour average of opacity, utilizing opacity readings for those six minutes and the immediately preceding 174 minutes.

2) Recordkeeping and Reporting

A) Any person relying on the Alternative Averaging Period in Section 212.124(d)(1) shall maintain records of such average opacity

calculations and shall report such calculations to Illinois EPA as part of the next quarterly excess emissions report for the source.

B) For periods of startup, such report shall include:

i) The date, time, and duration of the startup.

ii) A description of the startup.

iii) The reasons for the startup.

iv) An indication of whether or not written startup procedures were followed. If any written startup procedures were not followed, the report shall include any departures from established procedures and any reason the procedures could not be followed.

v) A description of any actions taken to minimize the magnitude or duration of opacity that requires utilization of the Alternative Averaging Period in Section 212.124(d)(1).

vi) An explanation whether similar incidents could be prevented in the future and, if so, a description of the actions taken or to be taken to prevent similar incidents in the future.

vii) Confirmation of fulfillment of the requirements of Section 212.124(d)(3).

C) For periods of malfunction and breakdown, such report shall include:

i) The date, time, duration (i.e., the length of time during which operation continued with opacity in excess of 20 or 30 percent, as applicable, on a six-minute average basis) until corrective actions were taken or the boiler was taken out of service.

ii) A description of the incident.

iii) Any corrective actions used to reduce the magnitude or duration of opacity that requires utilization of the Alternative Averaging Period in Section 212.124(d)(1).

iv) Confirmation of fulfillment of the requirements of Sections 212.124(d)(2)(D) and (d)(3).

D) Any person who causes or allows the continued operation of a coal-fired boiler during a malfunction or breakdown of the coal-fired boiler or related air pollution control equipment when such continued operation would require reliance on the Alternative Averaging Period in Section 212.124(d)(1) to demonstrate compliance with Sections 212.122 or 212.123, as applicable, shall immediately report such incident to the Agency by telephone, facsimile, electronic mail, or such other method as constitutes the fastest available alternative, except if otherwise provided in the operating permit. Thereafter, any such person shall comply with all reasonable directives of the Agency with respect to the incident.

3) Work Practices. Any person relying on the Alternative Averaging Period in Section 212.124(d)(1) must comply with the following Work Practices.

A) Operate the coal-fired boiler and related air pollution control equipment in a manner consistent with good engineering practice for minimizing opacity during startup, malfunction or breakdown.

B) Use good engineering practices and best efforts to minimize the frequency and duration of operation in startup, malfunction, and breakdown.

e) During any period of start-up at the emission unit designated Kiln 1 or Kiln 2 at the Rain CII Carbon LLC facility located in Robinson, Illinois, when average opacity exceeds 30 percent for a six-minute period, as applicable pursuant to Section 212.123(a), compliance with Section 212.123(a) may alternatively be demonstrated for that six-minute period as follows. Compliance with that six-minute period may be determined based on Test Method 9 (40 C.F.R. 60, Appendix A, incorporated by reference in Section 212.113) opacity readings the average of non-consecutive opacity readings during a 1-hour period; provided, however, that compliance may be based on the average of up to three, 1-hour average periods, in the event that compliance is not demonstrated during the preceding hour. For purposes of this subsection (e), "start-up" is defined as the duration from when green coke feed is introduced into the kiln until the temperature at the pyroscrubber inlet servicing the kiln achieves a minimum operating temperature of 1800°F (based on a three-hour rolling average).

(Source: Amended at 47 Ill. Reg. _____, effective _____)

SUBPART L: PARTICULATE MATTER EMISSIONS FROM PROCESS EMISSION UNITS

Section 212.322 Process Emission Units For Which Construction or Modification Commenced Prior to April 14, 1972

a) Except as further provided in this Part, no person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any process emission unit for which construction or modification commenced prior to April 14, 1972, which, either alone or in combination with the emission of particulate matter from all other similar process emission units at a source or premises, exceeds the allowable emission rates specified in subsection (c) of this Section.

b) Interpolated and extrapolated values of the data in subsection (c) of this Section shall be determined by using the equation:

$$E = C + A(P)^B$$

where:

P = process weight rate; and

E = allowable emission rate; and,

1) For process weight rates up to 27.2 Mg/hr (30 T/hr):

	Metric	English
P	Mg/hr	T/hr
E	kg/hr	lbs/hr
A	1.985	4.10
B	0.67	0.67
C	0	0

2) For process weight rates in excess of 27.2 Mg/hr (30 T/hr):

	Metric	English
P	Mg/hr	T/hr
E	kg/hr	lbs/hr
A	25.21	55.0
B	0.11	0.11
C	-18.4	-40.0

c) Limits for Process Emission Units For Which Construction or Modification Commenced Prior to April 14, 1972

Metric		English	
P	E	P	E
Mg/hr	kg/hr	T/hr	lbs/hr
0.05	0.27	0.05	0.55
0.1	0.42	0.10	0.87
0.2	0.68	0.20	1.40
0.3	0.89	0.30	1.83
0.4	1.07	0.40	2.22
0.5	1.25	0.50	2.58
0.7	1.56	0.75	3.38
0.9	1.85	1.00	4.10
1.8	2.9	2.00	6.52
2.7	3.9	3.00	8.56
3.6	4.7	4.00	10.40
4.5	5.4	5.00	12.00
9.	8.7	10.00	19.20
13.	11.1	15.00	25.20
18.	13.8	20.00	30.50
23.	16.2	25.00	35.40
27.2	18.15	30.00	40.00
32.0	18.8	35.00	41.30
36.0	19.3	40.00	42.50
41.0	19.8	45.00	43.60
45.0	20.2	50.00	44.60
90.0	23.2	100.00	51.20
140.0	25.3	150.00	55.40
180.0	26.5	200.00	58.60
230.0	27.7	250.00	61.00
270.0	28.5	300.00	63.10
320.0	29.4	350.00	64.90
360.0	30.0	400.00	66.20
400.0	30.6	450.00	67.70
454.0	31.3	500.00	69.00

where:

P = Process weight rate in Mg/hr or T/hr, and

E = Allowable emission rate in kg/hr or lbs/hr.

d) Alternative Standard

1) The owner or operator of the Rain CII Carbon LLC facility located in Robinson, Illinois, shall be allowed to emit particulate matter into the atmosphere in excess of the allowable emission rates specified in subsection (c) applicable to the emission unit designated Kiln 1 or Kiln 2 during any period of time that the temperature of the inlet to the pyroscrubber servicing either emission unit does not achieve a minimum operating temperature of 1800°F during start-up, malfunction, or breakdown (based on a three-hour rolling average).

2) Use of the alternative standard in subsection (d)(1) shall not exceed 720 hours in the aggregate per kiln in a calendar year. It shall not be a violation of this Part to operate the pyroscrubber servicing Kiln 1 or Kiln 2 below the minimum operating temperature in subsection (d)(1) during this time.

3) During any time that Kiln 1 or Kiln 2 is operated while the pyroscrubber servicing the emission unit is not achieving the minimum operating temperature in subsection (d)(1), the owner or operator must:

A) minimize emissions to the extent reasonably practicable;

B) not introduce green coke into the kiln unless or until a minimum operating temperature of 400°F measured at the inlet to the pyroscrubber is achieved; and

C) operate the natural gas-fired burners to minimize the duration that a kiln operates below 1800°F, consistent with technological limitations, manufacturer specifications, and good air pollution control practices for minimizing emissions.

4) The owner or operator must keep and maintain all records necessary to demonstrate compliance with this subsection, including, but not limited to, records of each hour that the pyroscrubber operated below the minimum operating temperature specified in this subsection.

(Source: Amended at 47 Ill. Reg. _____, effective _____)

TITLE 35: ENVIRONMENTAL PROTECTION
SUBTITLE B: AIR POLLUTION
CHAPTER I: POLLUTION CONTROL BOARD
SUBCHAPTER c: EMISSIONS STANDARDS AND LIMITATIONS FOR STATIONARY SOURCES

PART 215
ORGANIC MATERIAL EMISSION STANDARDS AND LIMITATIONS

SUBPART A: GENERAL PROVISIONS

Section

SUBPART B: ORGANIC EMISSIONS FROM STORAGE AND LOADING OPERATIONS

Section

SUBPART C: ORGANIC EMISSIONS FROM MISCELLANEOUS EQUIPMENT

Section

SUBPART K: USE OF ORGANIC MATERIAL

SUBPART N: VEGETABLE OIL PROCESSING

SUBPART P: PRINTING AND PUBLISHING

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

SUBPART R: PETROLEUM REFINING AND RELATED INDUSTRIES; ASPHALT MATERIALS

Section

SUBPART S: RUBBER AND MISCELLANEOUS PLASTIC PRODUCTS

Section

SUBPART T: PHARMACEUTICAL MANUFACTURING

Section

SUBPART U: COKE MANUFACTURING AND BY-PRODUCT RECOVERY

Section

SUBPART V: AIR OXIDATION PROCESSES

Section

SUBPART W: AGRICULTURE

SUBPART BB: POLYSTYRENE PLANTS

SUBPART PP: MISCELLANEOUS FABRICATED PRODUCT MANUFACTURING PROCESSES

SUBPART QQ: MISCELLANEOUS FORMULATION MANUFACTURING PROCESSES

SUBPART RR: MISCELLANEOUS ORGANIC CHEMICAL MANUFACTURING PROCESSES

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, effective November 9, 1987; amended in R86-36, R86-39, R86-40 at 11 Ill. Reg. 20829, effective December 14, 1987; amended in R82-14 and R86-37 at 12 Ill. Reg. 815, effective December 24, 1987; amended in R86-18 at 12 Ill. Reg. 7311, effective April 8, 1988; amended in R86-10 at 12 Ill. Reg. 7650, effective April 11, 1988; amended in R88-23 at 13 Ill. Reg. 10893, effective June 27, 1989; amended in R88-30(A) at 14 Ill. Reg. 3555, effective February 27, 1990; emergency amendments in R88-30A at 14 Ill. Reg. 6421, effective April 11, 1990, for a maximum of 150 days; amended in R88-19 at 14 Ill. Reg. 7596, effective May 8, 1990; amended in R89-16(A) at 14 Ill. Reg. 9173, effective May 23, 1990; amended in R88-30(B) at 15 Ill. Reg. 3309, effective February 15, 1991; amended in R88-14 at 15 Ill. Reg. 8018, effective May 14, 1991; amended in R91-7 at 15 Ill. Reg. 12217, effective August 19, 1991; amended in R91-10 at 15 Ill. Reg. 15595, effective October 11, 1991; amended in R89-7(B) at 15 Ill. Reg. 17687, effective November 26, 1991; amended in R91-9 at 16 Ill. Reg. 3132, effective February 18, 1992; amended in R91-24 at 16 Ill. Reg. 13555, effective August 24, 1992; amended in R91-30 at 16 Ill. Reg. 13849, effective August 24, 1992; amended in R98-15 at 22 Ill. Reg. 11427, effective June 19, 1998; amended in R12-24 at 37 Ill. Reg. 1683, effective January 28, 2013; expedited correction at 37 Ill. Reg. 16858, effective January 28, 2013; amended in R19-1 at 44 Ill. Reg. 15032, effective September 4, 2020; amended in R23-18(A) at 47 Ill. Reg. _____, effective _____.

SUBPART K: USE OF ORGANIC MATERIAL

Section 215.302 Alternative Standard

a) 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:

1~~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,

2~~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,

3~~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.

b) Compliance with the permitted emissions of organic material under subsection (a) during any period of start-up at the emission unit designated Kiln 1 or Kiln 2 at the Rain CII Carbon LLC facility located in Robinson, Illinois, shall be determined by the average of hourly emissions of organic material during start-up of the emission unit; provided, however, that in no event shall the averaging period of any single start-up exceed 24 hours. For purposes of the alternative standard in subsection (b), "start-up" is defined as the duration from when green coke feed is introduced into the kiln until the temperature at the pyroscrubber inlet servicing the kiln achieves a minimum operating temperature of 1800°F (based on a 3-hour rolling average). During any period of start-up, the owner or operator must:

1) minimize emissions to the extent reasonably practicable;

2) not introduce green coke into the kiln until a minimum operating temperature of 400°F measured at the inlet to the pyroscrubber is achieved; and

3) operate the natural gas-fired burners to minimize the duration of start-up, consistent with technological limitations, manufacturer specifications, and good air pollution control practices for minimizing emissions.

4) The owner or operator must keep and maintain all records necessary to demonstrate compliance with this subsection, including, but not limited to, records of the duration and frequency of each start-up period.

(Source: Amended at 47 Ill. Reg. _____, effective _____)

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

PART 216
CARBON MONOXIDE EMISSIONS

SUBPART A: GENERAL PROVISIONS

Section

SUBPART B: FUEL COMBUSTION EMISSION SOURCES

Section

SUBPART C: INCINERATORS

Section

SUBPART N: PETROLEUM REFINING AND CHEMICAL MANUFACTURE

Section

SUBPART O: PRIMARY AND FABRICATED METAL PRODUCTS

Section

216.APPENDIX B Section into Rule Table
216.APPENDIX C Compliance Dates

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

SOURCE: Adopted as Chapter 2: Air Pollution, Rule 206: Carbon Monoxide Emissions, R71-23, 4 PCB 191, April 13, 1972, filed and effective April 14, 1972; amended at 3 Ill. Reg. 47, p. 92, effective November 8, 1979; amended at 4 Ill. Reg. 24, p. 514, effective June 4, 1980; codified at 7 Ill. Reg. 13607; amended in R87-18 at 12 Ill. Reg. 20774, effective December 6, 1988; amended in R90-23 at 16 Ill. Reg. 18075, effective November 13, 1992; amended in R23-18(A) at 47 Ill. Reg. _____, effective _____.

SUBPART A: GENERAL PROVISIONS

Section 216.103 Definitions

The definitions contained in 35 Ill. Adm. Code 201 and 211 apply to this Part. The definitions for "catalytic cracking unit" and "hot standby" in 40 CFR 63.1579 apply to Section 216.361(d). The definition of "startup" in 40 CFR 63.2 applies to Section 216.361(d). The definitions of "startup" and "shutdown" in 40 CFR 63.7575 apply to Section 216.121(b).

(Source: Amended at 47 Ill. Reg. _____, effective _____)

Section 216.104 Incorporations by Reference

The following materials are incorporated by reference: non-dispersive infrared method, 40 CFR 60, Appendix A, Method 10 (1982); 40 CFR Part 63, Subpart A (2022); 40 CFR Part 63, Subpart UUU (2022); 40 CFR 63, Subpart DDDDD (2022).

(Source: Amended at 47 Ill. Reg. _____, effective _____)

SUBPART B: FUEL COMBUSTION EMISSION SOURCES

Section 216.121 Fuel Combustion Emission Sources

a) No person shall cause or allow the emission of carbon monoxide (CO) into the atmosphere from any fuel combustion emission source with actual heat input greater than 2.9 MW (10 mmbtu/hr) to exceed 200 ppm, corrected to 50 percent excess air.

b) Notwithstanding subsection (a), during periods of startup and shutdown, any new or existing fuel combustion emission source can elect to comply with subsection

(a) or the alternate standards for these operating modes in 40 CFR 63, Subpart DDDDD, Table 3 Items 5 and 6, 40 CFR 63.7500(a)(3) and (f), 40 CFR 63.7505(e), 40 CFR 63.7535(b), and 40 CFR 63.7555(d)(9)-(12).

(Source: Amended at 47 Ill. Reg. _____, effective _____)

SUBPART N: PETROLEUM REFINING AND CHEMICAL MANUFACTURE

Section 216.361 Petroleum and Petrochemical Processes

a) No person shall cause or allow the emission of a carbon monoxide waste gas stream into the atmosphere from a petroleum or petrochemical process unless such waste gas stream is burned in a direct flame afterburner or carbon monoxide boiler so that the resulting concentration of carbon monoxide in such waste gas stream is less than or equal to 200 ppm corrected to 50 percent excess air, or such waste gas stream is controlled by other equivalent air pollution control equipment approved by the Agency according to the provisions of 35 Ill. Adm. Code 201.

b) Notwithstanding subsection (a), any existing petroleum or petrochemical process using catalyst regenerators of fluidized catalytic converters equipped for in situ combustion of carbon monoxide, may emit a carbon monoxide waste gas stream into the atmosphere if the carbon monoxide concentration of such waste gas stream is less than or equal to 750 ppm corrected to 50 percent excess air.

c) Notwithstanding subsection (a), any new petroleum or petrochemical process using catalyst regenerators of fluidized catalytic converters equipped for in situ combustion of carbon monoxide, may emit a carbon monoxide waste gas stream into the atmosphere if the carbon monoxide concentration of such waste gas stream is less than or equal to 350 ppm corrected to 50 percent excess air.

d) Notwithstanding subsections (a) through (c), during periods of startup and hot standby, any new or existing petroleum catalytic cracking units can elect to comply with subsections (a) through (c) or the alternate limitation for these operating modes in 40 CFR 63 Subpart UUU Tables 9, 10, 14, and 41, 40 CFR 63.1565(a)(5), 40 CFR 63.1570(c) and (f), 40 CFR 63.1572(c), and 40 CFR 63.1576(a)(2) and (d).

(Source: Amended at 47 Ill. Reg. _____, effective _____)

TITLE 35: ENVIRONMENTAL PROTECTION
SUBTITLE B: AIR POLLUTION
CHAPTER I: POLLUTION CONTROL BOARD
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PART 217
NITROGEN OXIDES EMISSIONS

SUBPART A: GENERAL PROVISIONS

SUBPART B: NEW FUEL COMBUSTION EMISSION SOURCES

SUBPART C: EXISTING FUEL COMBUSTION EMISSION UNITS

SUBPART D: NO_x GENERAL REQUIREMENTS

SUBPART E: INDUSTRIAL BOILERS

SUBPART F: PROCESS HEATERS

Section

SUBPART G: GLASS MELTING FURNANCES

Section

SUBPART H: CEMENT AND LIME KILNS

Section

SUBPART I: IRON AND STEEL AND ALUMINUM MANUFACTURING

Section

SUBPART K: PROCESS EMISSION SOURCES

Section

SUBPART M: ELECTRICAL GENERATING UNITS

Section

SUBPART X: VOLUNTARY NO_x EMISSIONS REDUCTION PROGRAM

Section

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

SOURCE: Adopted as Chapter 2: Air Pollution, Rule 207: Nitrogen Oxides Emissions, R71-23, 4 PCB 191, April 13, 1972, filed and effective April 14, 1972; amended at 2 Ill. Reg. 17, p. 101, effective April 13, 1978; codified at 7 Ill. Reg. 13609; amended in R01-9 at 25 Ill. Reg. 128, effective December 26, 2000; amended in R01-11 at 25 Ill. Reg. 4597, effective March 15, 2001; amended in R01-16 and R01-17 at 25 Ill. Reg. 5914, effective April 17, 2001; amended in R07-18 at 31 Ill. Reg. 14271, effective September 25, 2007; amended in R07-19 at 33 Ill. Reg. 11999, effective August 6, 2009; amended in R08-19 at 33 Ill. Reg. 13345, effective August 31, 2009; amended in R09-20 at 33 Ill. Reg. 15754, effective November 2, 2009; amended in R11-17 at 35 Ill. Reg. 7391, effective April 22, 2011; amended in R11-24 at 35 Ill. Reg. 14627, effective August 22, 2011; amended in R11-08 at 35 Ill. Reg. 16600, effective September 27, 2011;

amended in R09-19 at 35 Ill. Reg. 18801, effective October 25, 2011; amended in R15-21 at 39 Ill. Reg. 16213, effective December 7, 2015; amended in R23-18(A) at 47 Ill. Reg. _____, effective _____.

SUBPART O: CHEMICAL MANUFACTURE

Section 217.381 Nitric Acid Manufacturing Processes

a) New Weak Nitric Acid Processes. No person shall cause or allow the emission of nitrogen oxides into the atmosphere from any new weak nitric acid manufacturing process to exceed the following standards and limitations:

1) 0.75~~1.5~~ kg of nitrogen oxides (expressed as nitrogen dioxide) per metric tonne of acid produced (100 percent acid basis) (1.5~~3.0~~ lbs/T), 30-day rolling average, rolled daily, during all Operating Periods (including during Startup and Shutdown);

2) Visible emissions in excess of 5 percent opacity, during all Operating Periods except during Startup and Shutdown;

3) During Startup and Shutdown, as defined in subsection (e), visible emissions shall be controlled through:

A) Operating in a manner consistent with good air pollution control practices for minimizing emissions;

B) Maintaining a log of Startup and Shutdown events; and

C) Operating in accordance with written Startup and Shutdown procedures that are specifically developed to minimize Startup emissions, duration of individual starts, and frequency of Startups.

4) The limitations on visible emissions in this Section are in lieu of the limitations in 35 Ill. Adm. Code 212.123.

5)~~3)~~ 0.05 kg of nitrogen oxides (expressed as nitrogen dioxide) per metric tonne of acid produced (100 percent acid basis) from any acid storage tank vents (0.1 lbs/T).

6) In determining compliance with subsection (a)(1), during process operating periods where there is little or no acid production (e.g., Startup or Shutdown), the average hourly acid production rate shall be determined

from the data collected over the previous 30 days of normal acid production periods.

b) Existing Weak Nitric Acid Processes. No person shall cause or allow the emission of nitrogen oxides into the atmosphere from any existing weak nitric acid manufacturing process to exceed the following standards and limitations:

1) 2.75 kg of nitrogen oxides (expressed as nitrogen dioxide) per metric tonne of acid produced (100 percent acid basis) (5.5 lbs/T);

2) Visible emissions in excess of 5 percent opacity;

3) 0.1 kg of nitrogen oxides (expressed as nitrogen dioxide) per metric tonne of acid produced (100 percent acid basis) from any acid storage tank vents (0.2 lbs/T).

c) Concentrated Nitric Acid Processes. No person shall cause or allow the emission of nitrogen oxides into the atmosphere from any concentrated nitric acid manufacturing process to exceed the following standards and limitations:

1) 1.5 kg of nitrogen oxides (expressed as nitrogen dioxide) per metric tonne of acid produced (100 percent acid basis)(3.0 lbs/T);

2) 225 ppm of nitrogen oxides (expressed as nitrogen dioxide) in any effluent gas stream emitted into the atmosphere;

3) Visible emissions in excess of 5 percent opacity.

d) Nitric Acid Concentrating Processes. No person shall cause or allow the emission of nitrogen oxides into the atmosphere from any nitric acid concentrating process to exceed the following limitations:

1) 1.5 kg of nitrogen oxides (expressed as nitrogen dioxide) per metric tonne of acid produced (100 percent acid basis) (3.0 lbs/T);

2) Visible emissions in excess of 5 percent opacity.

e) Definitions:

1) "Operating Periods" shall mean periods during which a process is producing nitric acid and nitrogen oxides are emitted. Operating Periods begin at the initiation of Startup, end at the completion of Shutdown, and include all periods of malfunction.

2) "Shutdown" shall mean the cessation of nitric acid production operations of the process for any reason. Shutdown begins at the time the feed of ammonia to the process ceases and ends the earlier of three hours later or the cessation of feed of compressed air to the process.

3) "Startup" shall mean the process of initiating nitric acid production operations at a process. Startup begins one hour prior to the initiation of the feed of ammonia to the process and ends no more than five hours after such initiation of the feed of ammonia.

(Source: Amended at 47 Ill. Reg. _____, effective _____)