

POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENTS

- 1) Heading of the Part: Visible and Particulate Matter Emissions
- 2) Code Citation: 35 Ill. Adm. Code 212
- 3)

<u>Section Numbers:</u>	<u>Proposed Actions:</u>
212.124	Amendment
212.322	Amendment
- 4) Statutory Authority: Implementing Section 10 and authorized by Section 27 and 28.5 of the Environmental Protection Act [415 ILCS 5/10, 27 and 28.5].
- 5) A Complete Description of the Subjects and Issues Involved: This proposal amends 35 Ill. Adm. Code 212 to provide alternate emission limitations during periods of startup, shutdown, breakdown, and malfunction.
- 6) Published studies or reports, and sources of underlying data, used to compose this rulemaking: None
- 7) Will this proposed rulemaking replace an emergency rule currently in effect? No
- 8) Does this rulemaking contain an automatic repeal date? No
- 9) Does this proposed rulemaking contain incorporations by reference? No
- 10) Are there any proposed rulemakings to this Part pending? No
- 11) Statement of Statewide Policy Objectives: This proposed amendment does not create or enlarge a State mandate as defined in Section 3(b) of the State Mandates Act. [30 ILCS 805/3].
- 12) Time, Place, and Manner in which interested persons may comment on this proposed rulemaking: The Board will accept written public comments on this proposal for a period of at least 45 days after the date of publication in the *Illinois Register*.

Public comments should refer to Docket R23-18(A) and be filed electronically through the Clerk's Office On-Line (COOL) on the Board's website at pcb.illinois.gov. Public comments may be addressed to:

Clerk's Office
Illinois Pollution Control Board

POLLUTION CONTROL BOARD

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60 E. Van Buren, Suite 630
Chicago, IL 60605

Interested persons may download copies of the Board's opinions and orders in R23-18(A) from the Board's Web site at pcb.illinois.gov and may also request copies by calling the Clerk's office at (312) 814-3620.

- 13) Initial Regulatory Flexibility Analysis:
- A) Types of small businesses, small municipalities and not for profit corporations affected: Any small business that holds an air permit allowing emissions from equipment that malfunctions or that may start-up or shutdown.
 - B) Reporting, bookkeeping or other procedures required for compliance: None
 - C) Types of Professional skills necessary for compliance: None
- 14) Small Business Impact Analysis: The Board does not expect that the proposed rules will impact small business.
- 15) Regulatory Agenda on which this rulemaking was summarized: This rule did not appear in either of the two most recent Regulatory Agendas because this is a subdocket to a previous rulemaking.

The full text of the Proposed Amendments begins on the next page:

First Notice

JCAR350212-2312810r01

TITLE 35: ENVIRONMENTAL PROTECTION
SUBTITLE B: AIR POLLUTION
CHAPTER I: POLLUTION CONTROL BOARD
SUBCHAPTER c: EMISSION STANDARDS AND LIMITATIONS
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PART 212
VISIBLE AND PARTICULATE MATTER EMISSIONS

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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 _____)

Comparing:
Agency Proposed vs. JCAR r01

~~ILLINOIS REGISTER~~

JCAR350212-2312810r01

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212.Appendix A	Rule into Section Table
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212.Appendix B	Section into Rule Table
212.Appendix C	Past Compliance Dates
212.Illustration A	Allowable Emissions From <u>from</u> Solid Fuel Combustion Emission Sources Outside Chicago (Repealed)
212.Illustration B	Limitations for all New Process Emission Sources (Repealed)
212.Illustration C	Limitations for all Existing Process Emission Sources (Repealed)
212.Illustration D	McCook Vicinity Map
212.Illustration E	Lake Calumet Vicinity Map
212.Illustration F	Granite City Vicinity Map

AUTHORITY: Implementing Section 10 and authorized by ~~Section~~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.

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- 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) ~~of this Subpart~~, compliance with Section 212.122(a) or

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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) ~~of this Subpart~~ 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 ~~reason(s)~~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) ~~of this Subpart~~.
 - 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.

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- vii) Confirmation of fulfillment of the requirements of Section 212.124(d)(3) ~~of this Subpart.~~
 - 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) ~~of this Subpart.~~
 - iv) Confirmation of fulfillment of the requirements of Sections 212.124(d)(2)(D) and (d)(3) ~~of this Subpart.~~
 - 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) ~~of this Subpart~~ to demonstrate compliance with Sections 212.122 or 212.123 ~~of this Subpart~~, 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) ~~of this Subpart~~ must comply with the following Work Practices.

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- 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) ~~of this Subpart~~, 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. ~~Part~~ 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:

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$$E = C + A(P)^{\frac{B+0B}{10B}}$$

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):

	<u>Metric</u>	<u>English</u>
<u>P</u>	<u>Mg/hr</u>	<u>T/hr</u>
<u>E</u>	<u>kg/hr</u>	<u>lbs/hr</u>
<u>A</u>	<u>1.985</u>	<u>4.10</u>
<u>B</u>	<u>0.67</u>	<u>0.67</u>
<u>C</u>	<u>0</u>	<u>0</u>
	<u>Metric</u>	<u>English</u>
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 ~~or of~~ 27.2 Mg/hr (30 T/hr):

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

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

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

~~Metric~~

P	E
Mg/hr	kg/hr
0.05	0.27

~~English~~

P	E
T/hr	lbs/hr
0.05	0.55

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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~~

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~~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)

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Move To	0
Table Insert	3
Table Delete	0
Table moves to	0
Table moves from	0
Embedded Graphics (Visio, ChemDraw, Images etc.)	0
Embedded Excel	0
Format changes	0
Total Changes:	99