

**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**

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**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].

**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 \_\_\_\_\_ at Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_.

**BOARD NOTE:** This Part implements the Illinois Environmental Protection Act as of July 1, 1994.

## **SUBPART Q: STONE, CLAY, GLASS AND CONCRETE MANUFACTURING**

### **Section 212.423 Emission Limits for the Portland Cement Manufacturing Plant Located in LaSalle County, South of the Illinois River (Repealed)**

- a) ~~This Section shall apply to the portland cement manufacturing plant in operation before September 1, 1990, located in LaSalle County, south of the Illinois River. This Section shall not alter the applicability of Sections 212.321 and 212.322 of this Part to portland cement manufacturing processes other than those for which alternate emission limits are specified in subsection (b) of this Section. This Section shall not become effective until April 30, 1992.~~
- b) ~~No person shall cause or allow emissions to exceed the emission limits set forth below for each process.~~

		PM-10 Emission Limits	
		Rate	Concentration
		kg/hr (lbs/hr)	mg/sec (gr/sec)
A)	Clinker-Cooler	4.67 (10.3)	28.147 (0.012)
B)	Finish Mill High	2.68 (5.90)	26.087 (0.011)
	Efficiency Air Separator		

		PM-10 Emissions Limits Including Condensible PM-10	
		Rate kg/hr	Concentration
		kg/hr (lbs/hr)	mg/sec (gr/sec)
A)	Raw Mill Roller Mill (RMRM)	6.08 (13.4)	27.5 (0.012)
B)	Kiln without RMRM Operating	19.19 (42.3)	91.5 (0.040)
C)	Kiln with RMRM	11.43 (25.2)	89.2 (0.039)

- ~~e) No person shall cause or allow any visible emissions from any portland cement manufacturing process emission unit not listed in subsection (b) of this Section.~~
- ~~d) The owner or operator of any process emission unit subject to subsection (b) or (c) of this Section shall maintain and repair all air pollution control equipment in a manner that assures that the applicable emission limits and standards in subsection (b) or (c) of this Section shall be met at all times. Proper maintenance shall include at least the following requirements:~~
- ~~1) Visual inspections of air pollution control equipment shall be conducted;~~
  - ~~2) An adequate inventory of spare parts shall be maintained;~~
  - ~~3) Prompt and immediate repairs shall be made upon identification of the need; and~~
  - ~~4) Written records of inventory and documentation of inspections, maintenance, and repairs of all air pollution control equipment shall be kept in accordance with subsection (c) of this Section.~~
- ~~e) Recordkeeping of Maintenance and Repair.~~

- 1) ~~Written records shall be kept documenting inspections, maintenance, and repairs of all air pollution control equipment. All such records required under this Section shall be kept and maintained for at least three (3) years, shall be available for inspection by the Agency, and, upon request, shall be copied and furnished to Agency representatives during working hours.~~
- 2) ~~The owner or operator shall document any period during which any process emission unit was in operation when the air pollution control equipment was not in operation or was not operating properly. These records shall include documentation of causes for pollution control equipment not operating or not operating properly, and shall state what corrective actions were taken and what repairs were made. In any quarter during which such a malfunction should occur, the owner or operator shall mail one copy of the documentation to the Agency.~~
- 3) ~~A written record of the inventory of all spare parts not readily available from local suppliers shall be kept and updated.~~
- 4) ~~Upon written request by the Agency, the owner or operator shall submit any information required pursuant to this Subpart, for any period of time specified in the request. Such information shall be submitted within ten (10) working days from the date on which the request is received.~~
- f) ~~Testing to determine compliance with the emission limits specified for PM<sub>10</sub>, condensible PM<sub>10</sub>, and detection of visible emissions shall be in accordance with the measurement methods specified in Sections 212.107 and 212.108 (a) and (b) of this Part. Ammonium chloride shall be excluded from the measurement of condensible PM<sub>10</sub>.~~

(Source: Repealed at Ill. Reg. , effective )

**Section 212.424 Fugitive Particulate Matter Control for the Portland Cement Manufacturing Plant and Associated Quarry Operations Located in LaSalle County, South of the Illinois River. (Repealed)**

- a) ~~Applicability. This Section shall apply to the portland cement manufacturing plant in operation before September 1, 1990, and associated quarry operations located in LaSalle County, south of the Illinois River. Associated quarry operations are those operations involving the removal and disposal of overburden, and the extraction, crushing, sizing, and transport of limestone and shale for usage at the portland cement manufacturing plant. This Section shall not become effective until April 30, 1992.~~
- b) ~~Applicability of Subpart K of this Part. This Section shall not alter the applicability of Subpart K: Fugitive Particulate Matter.~~

e) ~~Fugitive Particulate Matter Control Measures For Roadways at the Plant.~~

- 1) ~~For the unpaved access roadway to the Illinois Central Silos Loadout, the owner or operator shall spray a 30 percent solution of calcium chloride once every 16 weeks at an application rate of at least 1.58 L/m<sup>(2)</sup> (0.35 gal/yd<sup>(2)</sup>) followed by weekly application of water at a rate of at least 1.58 L/m<sup>(2)</sup> (0.35 gal/yd<sup>(2)</sup>). This subsection shall not apply after the roadway is paved.~~
- 2) ~~The owner or operator of the portland cement manufacturing plant shall keep written records in accordance with subsection (e) of this Section.~~

d) ~~Fugitive Particulate Matter Control Measures for Associated Quarry Operations.~~

- 1) ~~For the primary crusher, the primary screen, the #3 conveyor from the primary screen to the surge pile, and the surge pile feeders to the #4 conveyor, the owner or operator shall spray a chemical foam spray of at least 1 percent solution of chemical foaming agent in water continuously during operations at a rate of at least 1.25 L/Mg (0.30 gal/T) of rock processed.~~
- 2) ~~The owner or operator shall water all roadways traveled by trucks to and from the primary crusher in the process of transporting raw limestone and shale to the crusher at an application rate of at least 0.50 L/m<sup>2</sup> (0.10 gal/yd<sup>2</sup>) applied once every eight hours of operation except under conditions specified in subsection (d)(3) of this Section. Watering shall begin within one hour of commencement of truck traffic each day.~~
- 3) ~~Subsection (d)(2) of this Section shall be followed at all times except under the following circumstances:~~
  - A) ~~Precipitation is occurring such that there are no visible emissions or if precipitation occurred during the previous 2 hours such that there are no visible emissions;~~
  - B) ~~If the ambient temperature is less than or equal to 0°C (32° F); or~~
  - C) ~~If ice or snow build up has occurred on roadways such that there are no visible emissions.~~
- 4) ~~The owner or operator of the associated quarry operations shall keep written records in accordance with subsection (e) of this Section.~~

e) ~~Recordkeeping and Reporting~~

- 1) ~~The owner or operator of any portland cement manufacturing plant and/or associated quarry operations subject to this Section shall keep written daily records relating to the application of each of the fugitive particulate matter control measures required by this Section.~~
- 2) ~~The records required under this Section shall include at least the following:~~
  - A) ~~The name and address of the plant;~~
  - B) ~~The name and address of the owner or operator of the plant and associated quarry operations;~~
  - C) ~~A map or diagram showing the location of all fugitive particulate matter emission units controlled including the location, identification, length, and width of roadways;~~
  - D) ~~For each application of water or calcium chloride solution, the name and location of the roadway controlled, the water capacity of each truck, application rate of each truck, frequency of each application, width of each application, start and stop time of each application, identification of each water truck used, total quantity of water or calcium chloride used for each application, including the concentration of calcium chloride used for each application;~~
  - E) ~~For application of chemical foam spray solution, the application rate and frequency of application, name of foaming agent, and total quantity of solution used each day;~~
  - F) ~~Name and designation of the person applying control measures; and~~
  - G) ~~A log recording all failures to use control measures required by this Section with a statement explaining the reasons for each failure and, in the case of a failure to comply with the roadway watering requirements of subsection (d)(2) of this Section, a record showing that one of the circumstances for exceptions listed in subsection (d)(3) of this Section existed during the period of the failure. Such record shall include, for example, the periods of time when the measured temperature was less than or equal to 0°C (32°F).~~
- 3) ~~Copies of all records required by this Section shall be submitted to the Agency within ten (10) working days after a written request by the Agency.~~

- ~~4) The records required under this Section shall be kept and maintained for at least three (3) years and shall be available for inspection and copying by Agency representatives during working hours.~~
- ~~5) A quarterly report shall be submitted to the Agency stating the following: the dates required control measures were not implemented, the required control measures, the reasons that the control measures were not implemented, and the corrective actions taken. This report shall include those times when subsection (d) of this Section is involved. This report shall be submitted to the Agency thirty (30) calendar days from the end of a quarter. Quarters end March 31, June 30, September 30, and December 31.~~

(Source: Repealed at Ill. Reg. , effective )

## **SUBPART R: PRIMARY AND FABRICATED METAL PRODUCTS AND MACHINERY MANUFACTURE**

### Section 212.458 Emission Units in Certain Areas

- a) **Applicability.** This Section shall apply to those emission units located in those areas defined in Section 212.324(a)(1) of this Part.
- b) **Emission Limitation.** No person shall cause or allow emissions of PM-10, other than that of fugitive particulate matter, into the atmosphere to exceed the following limits during any one hour period:
  - 1) 15.9 ng/J (0.037 lbs/mmbtu) of heat input from any fuel combustion emission unit located at steel plant between 106th and 111th Streets in City of Chicago;
  - 2) 22.9 mg/scm (0.01 gr/scf) for the basic oxygen furnace additive systems in the Village of Riverdale;
  - 3) 4.3 ng/J (0.01 lbs/mmbtu) of heat input from the burning of fuel in the soaking pits in the Village of Riverdale;
  - 4) 64.08 mg/scm (0.028 gr/scf) from the electrostatic precipitator discharge of the basic oxygen process in the Village of Riverdale;
  - 5) 45.8 mg/scm (0.02 gr/scf) from the pickling process at a steel plant in the Village of Riverdale;
  - 6) 5 percent opacity for coal handling systems equipped with fabric filters at a steel plant located in the City of Chicago;

- 7) 22.9 mg/scm (0.01 gr/scf) from any process emissions unit located at integrated iron and steel plants in the vicinity of Granite City, as defined in Section 212.324(a)(1)(C) of this Part, except as otherwise provided in this Section or in Sections 212.443 and 212.446 of this Subpart;
- 8) 5 percent opacity for continuous caster spray chambers or continuous casting operations at steel plants in the vicinity of Granite City, as defined in Section 212.324(a)(1)(C) of this Subpart;
- 9) 32.25ng/J (0.075 lbs/mmBtu) of heat input from the burning of coke oven gas at all emission units, other than coke oven combustion stacks, at steel plants in the vicinity of Granite City, as defined in Section 212.324(a)(1)(C) of this Subpart;
- 10) 38.7 ng/J (0.09 lbs/mmBtu) of heat input from the slab furnaces at steel plants in the vicinity of Granite City, as defined in Section 212.324(a)(1)(C) of this Subpart;
- 11) 22.9 mg/scm (0.01 gr/scf) for all process emission units at secondary lead processing plant located in Granite City, except the salt flux crusher;
- 12) 22.9mg/scm (0.01 gr/scf) for any melting furnace at a secondary aluminum smelting and refining plant in the vicinity of Granite City, as defined in Section 212.324(a)(1)(C) of this Part;
- 13) 45.8 mg/scm (0.02 gr/scf) from No. 6 mill brusher, and metal chip handling system at a secondary aluminum smelting and refining plant located in the vicinity of Granite City, as defined in Section 212.324(a)(1)(C) of this Part;
- 14) 0.05 kg/Mg (~~0.10 lb/T~~ 0.01 lb/T) of sand processed from molding sand forming systems at a steel foundry plant located in Granite City;
- 15) 0.01 kg/Mg (0.02 lbs/T) of sand processed from recycle sand shakeouts at a steel foundry plant located in Granite City;
- 16) At a steel foundry plant located in Granite City:
  - A) 20 percent opacity for all emission units; and
  - B) 22.9 mg/scm (0.01 gr/scf) for all other process emission units, except the sand dryer, sand cooler, chill tumbler, paint booth, chromite reclamation, core baking ovens, electric arc shop roof ventilators, and emission units listed in subsections (b)(14) and (b)(15) of this Section;

- 17) 41.2 mg/scm (0.018 gr/scf) for cold rolling mill emission units at a metal finishing plant located in the Village of McCook;
- 18) 2.15 ng/J (0.005 lbs/mmbtu) of heat input from the burning of fuel in any process emission unit at a secondary aluminum smelting and refining plant and/or aluminum finishing plant;
- 19) 22.9 mg/scm (0.01 gr/scf) from dross pad, dross cooling, and dross mixing units at a secondary aluminum smelting and refining plant and/or aluminum finishing plant;
- 20) 12.9 ng/J (0.03 lbs/mmbtu) of heat input from any fuel combustion emission unit that heats air for space heating purposes at a secondary aluminum smelting and refining plant located in the vicinity of Granite City, as defined in Section 212.324(a)(1)(C) of this Part;
- 21) 68.7 mg/scm (0.03 gr/scf) for any holding furnace at a secondary aluminum smelting and refining plant in the vicinity of Granite City, as defined in Section 212.324(a)(1)(C) of this Part;
- 22) 2.15 ng/J (0.005 lb/mmbtu) of heat input from the steel works boilers located at the steel making facilities at steel plant in the vicinity of Granite City, as defined in Section 212.324(a)(1)(C);
- 23) 27.24 kg/hr (60 lbs/hr) and 0.1125 kg/Mg (.225 lbs/T) of total steel in process whichever limit is more stringent for the total of all basic oxygen furnace processes described in Section 212.446(a) of this Subpart and measured at the BOF stack located at steel plant in the vicinity of Granite City, as defined in Section 212.324(a)(1)(C) of this Part;
- 24) North and south melting furnaces at a secondary aluminum smelting and refining plant located in the vicinity of Granite City, as defined in Section 212.324(a)(1)(C) of this Part, cannot be operated simultaneously;
- 25) Magnesium pot furnaces at a secondary aluminum smelting and refining plant located in the vicinity of Granite City, as defined in Section 212.324(a)(1)(C), of this Part, can be operated no more than two lines at a time;
- 26) 2.15 ng/J (0.005 lbs/mmbtu) of heat input from any fuel combustion emission unit at a secondary aluminum smelting and refining plant and/or aluminum finishing plant except as provided in subsection (b)(20) of this Section;

- 27) 91.6 mg/scm (0.040 gr/scf) and 0.45 kg/hr (1 lb/hr) for melting furnaces Nos. 6, 7, and 8 at a metal finishing plant in the Village of McCook, with operation limited to no more than two of these furnaces at one time;
  - 28) 183 mg/scm (0.080 gr/scf) and 0.91 kg/hr (2 lbs/hr) for holding furnaces Nos. 6, 7, and 8 at a metal finishing plant in the Village of McCook, with operation limited to no more than two of these furnaces at one time;
  - 29) 54.9 mg/scm (0.024 gr/scf) and 1.81 kg/hr (4 lbs/hr) for melting furnaces Nos. 24, 25, and 26 at a metal finishing plant in the Village of McCook;
  - 30) 34.3 mg/scm (0.015 gr/scf) and 1.81 kg/hr (4 lbs/hr) for melting furnaces Nos. 27, 28, 29, and 30 at a metal finishing plant in the Village of McCook;
  - 31) 32.0 mg/scm (0.014 gr/scf) and 0.45 kg/hr (1 lb/hr) for holding furnaces Nos. 24, 25, and 26 at a metal finishing plant in the Village of McCook, except that during fluxing operation those furnaces may emit 195 mg/scm (0.085 gr/scf) and 2.72 kg/hr (6 lbs/hr);
  - 32) 34.3 mg/scm (0.015 gr/scf) and 0.45 kg/hr (1 lb/hr) for holding furnaces Nos. 27, 28, 29, and 30 at a metal finishing plant in the Village of McCook, except that during fluxing operation those furnaces may emit 217 mg/scm (0.095 gr/scf) and 2.72 kg/hr (6 lbs/hr);
  - 33) Fluxing operations at holding furnaces Nos. 24, 25, 26, 27, 28, 29, and 30 at a metal finishing plant in the Village of McCook shall be limited to no more than three at any one time.
- c) Exceptions. The mass emission limits contained in subsection (b) of this Section shall not apply to those emission units with no visible emissions other than that of fugitive particulate matter; however, if a stack test is performed, this subsection is not a defense to a finding of a violation of the mass emission limits contained in subsection (b) of this Section.
  - d) Maintenance, Repair, and Recordkeeping. The requirements of Section 212.324 (f) and (g) of this Part shall also apply to this Section.
  - e) Compliance with this Section is required by December 10, 1993, or upon initial start-up, whichever occurs later.

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

#### **SUBPART U: ADDITIONAL CONTROL MEASURES**

**Section 212.700      Applicability**

- a) This Subpart shall apply to those sources in the areas designated in and subject to Sections 212.324(a)(1) or ~~212.423(a)~~ and that have actual annual source-wide emissions of PM-10 of at least fifteen (15) tons per year.
  
- b) A source's actual annual source-wide emissions of PM-10 shall be the total of its fugitive emissions and its stack emissions from process emission units and fuel combustion emission units and as set forth in the source's Annual Emissions Report submitted pursuant to 35 Ill. Adm. Code 254 or, for a newly-constructed source or emission unit, the estimated emissions included in the permit application.

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