

SECTION 20. PARTICULATE LIMITATIONS AND STANDARDS.

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~~(For exceptions due to breakdowns or scheduled maintenance: See Section 35 of these Regulations and Standards)~~

- (A) No person shall cause, suffer, allow or permit particulate matter (PM) emissions from any processing machine, equipment, device or other articles, or combination thereof, except indirect heating equipment, incinerators and coatings bake off ovens (burn-off furnaces), in excess of the amounts allowed in Table 20-1 of this section during any one hour.
- (1) Coatings bake off ovens (burn-off furnaces) shall comply with the following requirements:
- (a) Particulate matter discharged into the outdoor atmosphere shall not exceed one-tenth (0.1) grains per dry standard cubic foot (gr/dscf) of exhaust gas, corrected to twelve percent (12%) carbon dioxide (CO₂).
 - (b) The oven's secondary combustion chamber shall be equipped with an auxiliary burner(s) capable of heating and maintaining the combustion in this chamber at a minimum temperature of one-thousand two hundred degrees Fahrenheit (1,200 °F). The burner(s) shall be interlocked with operation of the primary combustion chamber so that the oven ~~can not~~ cannot be operated unless the secondary combustion chamber burner(s) is functioning.
- (B) No person shall cause or allow PM emissions caused by the combustion of fuel to be emitted from any stack or chimney into the outdoor atmosphere in excess of the hourly rate set forth in the following table:

Total Heat Input in Million British Thermal Units Per Hour (MMBtu/hr)	Maximum Allowable Emissions in Pounds per Million British Thermal Units (lbs/MMBtu)
10 or less	0.60
10,000 or more	0.12

- (C) The allowable emission rate for equipment having immediate heat input between ~~10 (10⁶) BTU~~ 10.0 MMBtu/hr and ~~10,000 (10⁶) BTU~~ 10,000.0 MMBtu/hr may be determined by the formula:

$$A = \frac{1.026}{I^{0.233}}$$

Where

A = The allowable emission rate in ~~Lb/10⁶ BTU~~ lbs/MMBtu

I = The total heat input in ~~10⁶ BTU/hr~~ MMBtu/hr

- (D) For the purpose of ~~these Regulations and Standards~~ this section, the total heat input shall be the aggregate heat content of all fuels whose products of combustion pass through a stack, or the equipment manufacturer's or designer's guaranteed maximum input, whichever is greater. The total heat input of all fuel burning units at a plant, or on a premises, shall be used for determining the maximum allowable PM emissions.
- ~~(E) Unless subject to a more stringent opacity standard, as specified in another section of the LLCAPCPRS, No no~~ person shall cause or allow emissions from any existing source, ~~which are~~ of an opacity equal to or greater than twenty percent (20%), as evaluated by an EPA approved method, or recorded by a continuous opacity monitoring system (COMS) operated and maintained pursuant to 40 CFR Part 60, Appendix B, except as provided for in paragraph (F) of this section.
- (F) Exceptions.
- (1) Emission sources subject to monitoring requirements of Article 2, Section 34, paragraph (E) are allowed to have one six (6) minute period per hour of not more than twenty seven percent (27%) opacity.
 - (2) For exceptions due to breakdowns or scheduled maintenance, see Article 2, Section 35.

Table 20-1

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Process Weight Rate (lbs/hr)	Process Weights Rate (tons/hr)	Allowable Rate of Emissions (lbs/hr)	Process Weight Rate (lbs/hr)	Process Weight Rate (tons/hr)	Allowable Rate of Emissions (lbs/hr)
100	0.05	0.551	16,000	8.00	16.5
200	0.10	0.877	18,000	9.00	17.9
400	0.20	1.40	20,000	10.00	19.2
600	0.30	1.83	30,000	15.00	25.2
800	0.40	2.22	40,000	20.00	30.5
1,000	0.50	2.58	50,000	25.00	35.4
1,500	0.75	3.38	60,000	30.00	40.0
2,000	1.00	4.10	70,000	35.00	41.3
2,500	1.25	4.76	80,000	40.00	42.5
3,000	1.50	5.38	90,000	45.00	43.6
3,500	1.75	5.96	100,000	50.00	44.6
4,000	2.00	6.52	120,000	60.00	46.3
5,000	2.50	7.58	140,000	70.00	47.8
6,000	3.00	8.56	160,000	80.00	49.0
7,000	3.50	9.49	180,000	90.00	50.2
8,000	4.00	10.4	200,000	100.00	51.2
9,000	4.50	11.2	1,000,000	500.00	69.0
10,000	5.00	12.0	2,000,000	1,000.00	77.6
12,000	6.00	13.6	6,000,000	3,000.00	92.7

Interpolation of the data in this table for process weight rates up to 60,000 ~~Lb/Hr lbs/hr~~ shall be accomplished by use of the following equation:

$E = 4.10p^{.67}$ ~~and interpolation and extrapolation where-Where:~~

E = rate of emission in ~~Lb/Hr and lbs/hr~~
p = process weight rate in ~~Tons/Hr, tons/hr~~

If two or more units discharge into a single stack, the allowable emission rate will be determined by the sum of all process weights discharge into the single stack.

Interpolation of the data for process weight rates in excess of 60,000 ~~Lb/Hr lbs/hr~~ shall be accomplished by use of the following equation:

$E = 55.0p^{.11-40}$

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(F) ~~Exceptions:~~

(1) ~~Emission sources subject to monitoring requirements of Section 34, paragraph (E) of these Regulations and Standards are allowed to have one six minute period per hour of not more than 27 percent opacity.~~

(G) ~~All sources shall comply with paragraph (E) of this section unless a more stringent opacity standard applies as specified elsewhere in these Regulations and Standards.~~

Ref: Title 129, Chapter 20, Nebraska Department of Environmental Quality