

3745-17-11 Restrictions on particulate emissions from industrial processes.

(A) General provisions:

(1) This rule applies to any operation, process, or activity which releases or may release particulate emissions into the ambient air except:

- (a) The burning of fuel for the primary purpose of producing heat or power by indirect heating in which the products of combustion do not come into direct contact with process materials;
- (b) The burning of refuse;
- (c) The processing of salvageable material by burning;
- (d) The loading of ships and the drying of grain at grain elevator operations;
- (e) Salt glazing in a gas-fired periodic brick or tile kiln, for a period of not more than two hours during any twenty-one consecutive days of operation of said kiln; and
- (f) The generation of fugitive dust which the director has determined is subject to the requirements of rule 3745-17-08 of the Administrative Code; AND
- (g) ANY SUCH OPERATION, PROCESS, OR ACTIVITY WHICH IS SUBJECT TO A PARTICULATE EMISSION LIMITATION CONTAINED IN RULE 3745-17-12 OR 3745-17-13 OF THE ADMINISTRATIVE CODE.

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(2) Emission restriction requirements for sources, which are not subject to the requirements of paragraphs (B) (4) and ~~(B) (5)~~ TO (B) (6) of this rule or which are not exempted under paragraph (A) (1) of this rule, are specified in "Figure II" and in "Table I". "Figure II" relates uncontrolled mass rate of emission (abscissa) to maximum allowable mass rate of emission (ordinate). A source complies with the requirements of "Figure II" if its particulate emission rate, even during operation at the maximum capacity of the source, is always equal to or less than the allowable mass rate of emission of particulate matter (A) based upon the

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uncontrolled mass rate of emission (U). "Table I" relates process weight of materials introduced into any specific process (at its maximum capacity) that may result in particulate emissions to maximum allowable mass rate of emission. A source complies with the requirements of "Table I" if its rate of particulate emission, even during operation at the process weight rate (P) which reflects the maximum capacity of the source, is always equal to or less than the allowable rate of particulate emission specified by the appropriate equation appearing at the bottom of "Table I" and incorporating the process weight rate (P) which reflects the maximum capacity of the source. Except as otherwise indicated in paragraphs (A) (2) (a) to (A) (2) (c) of this rule, the more stringent of the two requirements shall apply.

(a) "Figure II" shall not apply:

- (i) To any source where the uncontrolled mass rate of emission cannot be ascertained;
- (ii) To any source with an uncontrolled mass rate of emission of less than ten pounds per hour; or
- (iii) To any fluid catalytic cracking unit at a petroleum refinery.

(b) "Table I" shall not apply:

- (i) To any source where the process weight rate cannot be ascertained; or
- (ii) To any source which is located within the counties specified in paragraphs (B) (2) and (B) (3) of this rule, except as provided in paragraph (A) (2) (c) of this rule.

(c) "Table I" shall apply to any fluid catalytic cracking unit at a petroleum refinery.

- (3) For purposes of "Figure II", the total uncontrolled mass rate of emission from all similar process units at a plant, such units being united either physically or operationally, or otherwise located in close proximity to each other, shall be used for determining the maximum allowable mass rate of particulate emissions that

pass through a stack or stacks from all such units.

- (4) For purposes of "Table I", process weight per hour is the total weight of all materials introduced into any single, specific process (at its maximum capacity) that may cause any emission of particulate matter. Solid fuels charged will be considered as part of the process weight, but liquid and gaseous fuels and combustion air will not. For a cyclical or batch operation, the process weight per hour will be derived by dividing the total process weight by the number of hours in one complete operation from the beginning of any given process to the completion thereof, excluding any time during which the equipment is idle. For a continuous operation, the process weight per hour will be derived by dividing the process weight for a given period of time by the number of hours in that period. For fluid catalytic cracking units at petroleum refineries, "process weight" shall mean the total weight of recirculated catalyst and cold catalyst introduced into the catalyst regenerator.

(B) Emission limitations:

- (1) Except as specified in paragraphs (B) (4) and ~~(B) (5)~~ TO (B) (6) of this rule, any owner or operator of a source of particulate emissions which is located within the following counties shall operate said source so that the particulate emissions do not exceed the allowable emission rate specified by "curve P-1" of "Figure II" or by "Table I", whichever is applicable under paragraph (A) (2) of this rule: Adams, Allen, Ashtabula, Athens, Belmont, Brown, Butler, Clark, Clermont, Clinton, Columbiana, Coshocton, Cuyahoga, Darke, Defiance, Delaware, Fairfield, Franklin, Gallia, Geauga, Greene, Hamilton, Henry, Jackson, Jefferson, Lake, Lawrence, Licking, Lorain, Lucas, Madison, Mahoning, Medina, Meigs, Miami, Monroe, Montgomery, Morgan, Muskingum, Noble, Perry, Pickaway, Portage, Preble, Richland, Ross, Sandusky, Scioto, Seneca, Shelby, Stark, Summit, Trumbull, Union, Warren, Washington, Wyandot and Wood.
- (2) Except as otherwise provided in paragraphs (B) (4) and (B) (5) of this rule, any owner or operator of

a source of emissions which is located within the following counties shall operate said source so that the particulate emissions do not exceed the allowable emission rate specified by "curve P-2" of "Figure II": Ashland, Auglaize, Carroll, Champaign, Crawford, Fulton, Guernsey, Hancock, Hardin, Harrison, Holmes, Knox, Logan, Marion, Mercer, Morrow, Paulding, Putnam, Tuscarawas, Van Wert, Wayne and Williams.

- (3) EXCEPT AS OTHERWISE PROVIDED IN PARAGRAPHS (B) (4) AND (B) (5) OF THIS RULE, ANY ~~Any~~ owner or operator of a source of particulate emissions which is located within the following counties shall operate said source so that the particulate emissions do not exceed the allowable emission rate specified by "curve P-3" of "Figure II": Erie, Fayette, Highland, Hocking, Huron, Ottawa, Pike and Vinton.
- (4) Any owner or operator of a stationary gas turbine shall not cause or permit the particulate emissions from the turbine's exhaust to exceed .040 pound per million Btu of actual heat input.
- (5) Any owner or operator of a stationary internal combustion engine shall not cause or permit the particulate emissions from the engine's exhaust to exceed the following:
- (a) 0.310 ~~0.25~~ pound per million Btu of actual heat input for a stationary small ~~here~~ internal combustion engine; and
 - (b) 0.062 ~~0.35~~ pound per million Btu of actual heat input for a stationary large ~~here~~ internal combustion engine.
- (6) THE "LTV STEEL COMPANY" (OEPA PREMISE NUMBER 1318001613) OR ANY SUBSEQUENT OWNER OR OPERATOR OF THE "LTV STEEL COMPANY" FACILITY LOCATED AT 3100 EAST 45TH STREET, CLEVELAND, OHIO SHALL NOT CAUSE OR PERMIT THE PARTICULATE EMISSIONS FROM THE 84-INCH HOT STRIP MILL REHEAT FURNACES (OEPA SOURCE NUMBERS P046 THROUGH P048) TO EXCEED 19.8 POUNDS PER HOUR PER FURNACE.

TABLE IAllowable Rate Of Particulate Emissions Based
On Process Weight At Maximum Capacity (P)

Process Weight Rate At Maximum Capacity (P)		Allowable Rate Of Particulate Emission (E)	Process Weight Rate At Maximum Capacity (P)		Allowable Rate of Particulate Emission (E)
Lb/Hr	Tons/Hr	Lb/Hr	Lb/Hr	Tons/Hr	Lb/Hr
100	0.05	0.551	16,000	8	16.5
200	0.10	0.877	18,000	9	17.9
400	0.20	1.40	20,000	10	19.2
600	0.30	1.83	30,000	15	25.2
800	0.40	2.22	40,000	20	30.5
1,000	0.50	2.58	50,000	25	35.4
1,500	0.75	3.38	60,000	30	40.0
2,000	1	4.10	70,000	35	41.3
2,500	1.25	4.76	80,000	40	42.5
3,000	1.50	5.38	90,000	45	43.6
3,500	1.75	5.96	100,000	50	44.6
4,000	2	6.52	120,000	60	46.3
5,000	2.50	7.58	140,000	70	47.8
6,000	3	8.56	160,000	80	49.0
7,000	3.50	9.49	200,000	100	51.2
8,000	4	10.4	1,000,000	500	69.0
9,000	4.50	11.2	2,000,000	1,000	77.6
10,000	5	12.0	6,000,000	3,000	92.7
12,000	6	13.6			

The allowable rate of particulate emission (E) for process weight rates (P) not specifically listed in this table shall be obtained by use of the following equations: For $0 < (P) \leq 0.05$, $(E) = 0.551$; for $0.05 < (P) \leq 30$, $(E) = 4.10 (P)^{0.67}$; and for $(P) > 30$, $(E) = 55.0 (P)^{0.11} - 40.0$.

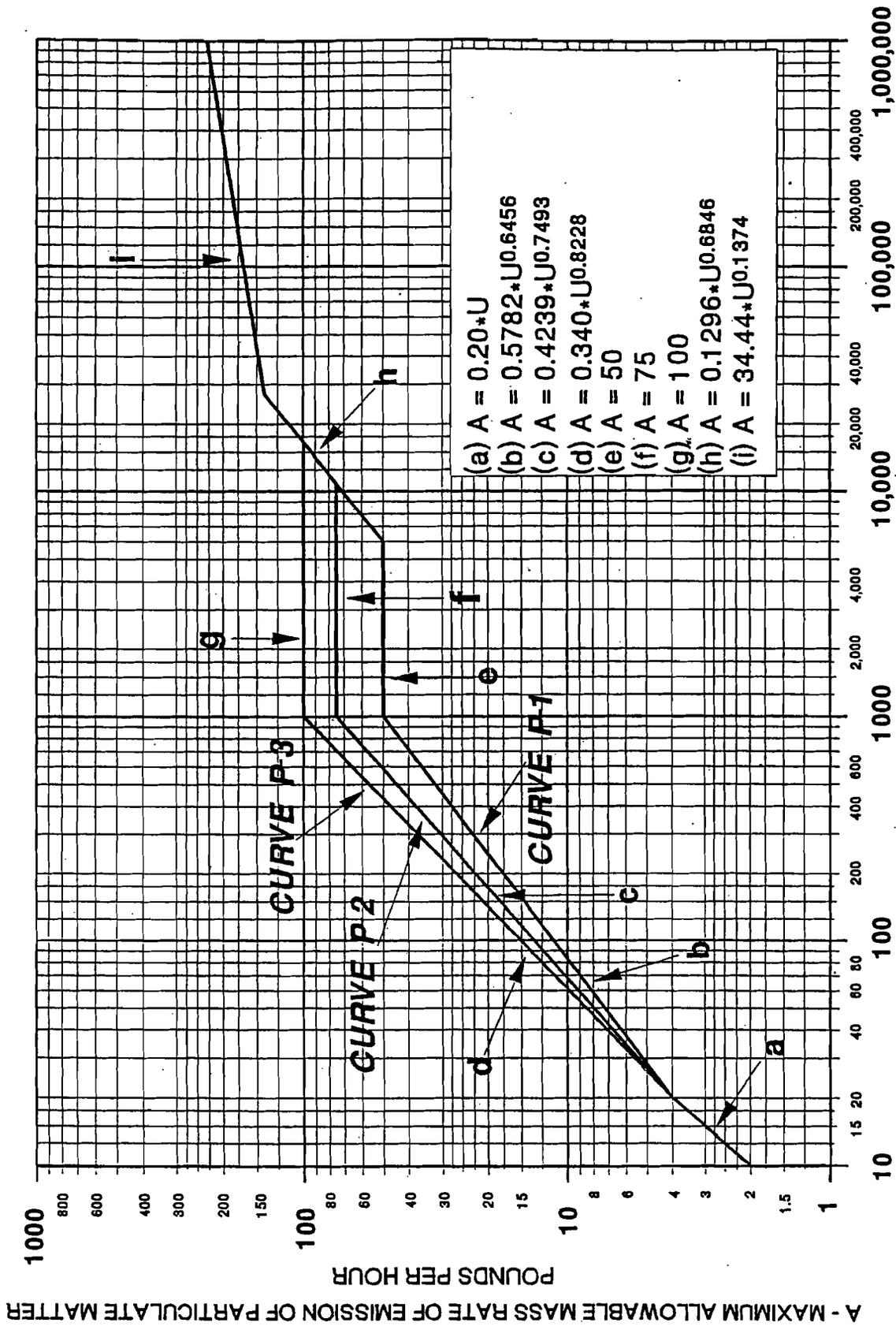


FIGURE II

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Donald R. Heberichus

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Date

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