

3745-17-10

Restrictions on particulate emissions from fuel burning equipment.

- (A) This rule applies to installations in which fuel, including any product or by-product of a manufacturing process, is burned for the primary purpose of producing heat or power by indirect heat transfer.
- (B) For purposes of this rule the actual heat input shall be the aggregate heat content of all fuels whose products of combustion emanate from a single fuel burning unit. The maximum capacity shall be the equipment manufacturer's or designer's guaranteed maximum heat input, whichever is greater. Unless otherwise specified in paragraphs (B)(1) to (B)(4) of this rule, the total heat input of all fuel burning units on a plant or premises which are united either physically or operationally shall be the total of the maximum capacities for all such units. The total heat input shall be used for determining the maximum allowable amount of particulate emissions per million Btu of actual heat input from any single fuel burning unit.
- (1) Any new or existing fuel burning equipment which is fired only with gaseous fuels ~~and/or~~ number two fuel oil and which is physically or operationally united with other fuel burning equipment on a plant or premises shall not be included by the director for purposes of determining the total heat input and maximum allowable particulate emissions per million Btu of actual heat input for such other fuel burning equipment. The maximum allowable amount of particulate emissions for any new or existing fuel burning equipment which is fired only with gaseous fuels, excluding blast furnace gas, ~~and/or~~ or number two fuel oil shall be 0.020 pound per million Btu of actual heat input. The maximum allowable amount of particulate emissions for any new or existing fuel burning equipment which is fired only with blast furnace gas or any mixture of blast furnace gas with other gaseous fuels ~~and/or~~ or number two fuel oil shall be 0.040 pound per million Btu of actual heat input.
- (2) Stand-by fuel burning equipment which is physically or operationally united with other fuel burning equipment on a plant or premises shall be exempted by the director for purposes of determining total heat input and maximum allowable particulate emissions per million Btu of actual heat input for such other fuel burning equipment. Except as provided in paragraph (B)(1) of this rule, the total heat input for such other fuel burning equipment shall be used for determining the maximum allowable amount of particulate emissions per million Btu of actual heat input for any stand-by fuel burning equipment.
- (3) Derating of fuel burning equipment.
- (a) For purposes of this paragraph, fuel burning equipment shall include, where appropriate, all equipment on a plant or premises which are united either physically or operationally.

- (b) Upon request, the director may specify the total heat input for fuel burning equipment at a derated value which is less than the total maximum capacity of such equipment if, in the director's judgment, the equipment will not be operated so that the actual heat input exceeds the derated value. Any owner or operator requesting derating of fuel burning equipment shall demonstrate to the director, with such steam charts, records of fuel consumption and fuel quality, and other data as are necessary, that the actual heat input from the equipment will not exceed the derated total heat input value.
 - (c) The terms and conditions of any permit, variance, or order for equipment which has been granted a derated total heat input value shall prohibit the operation of such equipment at a level in excess of the derated total heat input value. The director may include in any such permit, variance, or order requirements for the monitoring and reporting of the actual heat input of the equipment.
 - (d) Any derating of fuel burning equipment approved by the director shall not revise the federally enforceable requirements of the state implementation plan until approved by the United States environmental protection agency.
- (4) Fuel burning equipment which constitutes a new source and is physically or operationally united with existing fuel burning equipment on a plant or premises shall not be included by the director for purposes of determining total heat input and maximum allowable particulate emissions per million Btu of actual heat input for such existing fuel burning equipment. Except as may be provided in paragraphs (B)(1) ~~and/or~~ (B)(2) of this rule, the total heat input for the new and existing fuel burning equipment shall be used for determining the maximum allowable amount of particulate emissions per million Btu of actual heat input for the new fuel burning equipment.

(C) Emission limitations.

- (1) Except as provided in paragraph (B)(1) of this rule (as it pertains to gaseous fuels and number two fuel oil) and paragraphs (C)(3) to (C)(7) of this rule, any owner or operator of fuel burning equipment which is located within the following counties shall operate said equipment so that the particulate emissions do not exceed the allowable emission rate specified by "Curve P-1" of "Figure I" in the appendix to 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 provided in paragraph (B)(1) of this rule (as it pertains to gaseous fuels and number two fuel oil) and paragraph (C)(7) of this rule, any owner or operator of fuel burning equipment which is located within the following counties shall operate said equipment so that the particulate emissions do not exceed the allowable emission rate specified by "Curve P-2" of "Figure I" in the appendix to this rule: Ashland, Auglaize, Carroll, Champaign, Crawford, Erie, Fayette, Fulton, Guernsey, Hancock, Hardin, Harrison, Highland, Hocking, Holmes, Huron, Knox, Logan, Marion, Mercer, Morrow, Ottawa, Paulding, Pike, Putnam, Tuscarawas, Van Wert, Vinton, Wayne and Williams.
- (3) ~~The "Ford Motor Company, Lorain Assembly Plant" (OEPA premise number 1947080234) or any subsequent owner or operator of the "Ford Motor Company, Lorain Assembly Plant Facility, 5401 Baumhart Road, Lorain, Ohio" shall not cause or permit the particulate emissions from boilers number 1 through 3 (OEPA source numbers B001 through B003) to exceed a maximum of 0.20 pounds of particulate emissions per million Btu actual heat input from each boiler. [Reserved.]~~
- (4) ~~The "Ford Motor Company, Lima Engine Plant" (OEPA premise number 0302020143) or any subsequent owner or operator of the "Ford Motor Company, Lima Engine Plant Facility, Bible and North Sugar Roads, Lima, Ohio" shall not cause or permit the particulate emissions from boilers number 1 through 3 (OEPA source numbers B001 through B003) to exceed a maximum of 0.24 pounds of particulate emissions per million Btu actual heat input from each boiler. [Reserved.]~~
- (5) ~~The emission limitations specified for the "Ford Motor Company" facilities identified in paragraphs (C)(3) and (C)(4) of this rule shall not be construed to preclude the director from establishing alternative emission limitations for such facilities pursuant to paragraphs (B)(1) to (B)(4) of this rule. [Reserved.]~~
- (6) ~~The "Columbus and Southern Ohio Electric Company, Conesville Station~~Conesville Power Plant.
 - (a) Prior to achieving compliance with the emission limitation specified in paragraph (C)(6)(b) of this rule, the ~~"Columbus and Southern Ohio Electric Company, Conesville Station~~Conesville Power Plant" (OEPA

premise number 0616000000) or any subsequent owner or operator of the "~~Columbus and Southern Ohio Electric Company, Conesville Station Facility~~Conesville Power Plant, Rural Free Delivery 147201 County Road 273, Conesville, Ohio" shall not cause or permit the particulate emissions from ~~boiler number 4~~unit 4 main boiler (OEPA source number B004) to exceed a maximum of 0.43 pound of particulate emissions per million Btu actual heat input.

- (b) In accordance with the compliance schedule established in paragraph (C)(4) of rule 3745-17-04 of the Administrative Code, the "~~Columbus and Southern Ohio Electric Company, Conesville Station~~Conesville Power Plant" (OEPA) premise number 0616000000) or any subsequent owner or operator of the "~~Columbus and Southern Ohio Electric Company, Conesville Station Facility~~Conesville Power Plant, Rural Free Delivery 147201 County Road 273, Conesville, Ohio" shall not cause or permit the particulate emissions from ~~boiler number 4~~unit 4 main boiler (OEPA source number B004) to exceed a maximum of 0.10 pound of particulate emissions per million Btu actual heat input.

(7) Alternative emission requirements for small coal-fired fuel burning equipment which is used exclusively for space heating purposes.

- (a) Any owner or operator of coal-fired fuel burning equipment, which has an individual maximum capacity of equal to or greater than one million Btu per hour and less than twenty million Btu per hour and which is used exclusively for space heating purposes, may choose to immediately comply with all the following requirements in lieu of ~~the requirements of~~ paragraph (C)(1) or (C)(2) of this rule:

(i) The coal received for use in the fuel burning equipment has an ash content of less than 8.0 per cent by weight and a heat content of greater than thirteen thousand Btu per pound (ash content and heat content shall be determined on a dry basis in accordance with the procedures specified in paragraph (B)(9) of rule 3745-17-03 of the Administrative Code).

(ii) The use of flyash reinjection in the coal-fired fuel burning equipment is prohibited.

(iii) The coal-fired fuel burning equipment employs an overfire air system which is designed, maintained and operated in accordance with good engineering practice and which minimizes visible particulate emissions from the fuel burning equipment.

- (iv) Except as otherwise provided in paragraph (A)(3) of rule 3745-17-07 of the Administrative Code, the visible particulate emissions from the coal-fired fuel burning equipment comply with ~~the requirements of~~ paragraph (A)(1) of rule 3745-17-07 of the Administrative Code. No coal-fired fuel burning equipment which is subject to the alternative emission requirements of this rule shall be eligible for an equivalent visible particulate emission limitation pursuant to paragraph (C) of rule 3745-17-07 of the Administrative Code.
 - (v) The coal-fired fuel burning equipment is operated and maintained in a manner which will optimize combustion efficiency and minimize visible particulate emissions.
 - (vi) During January and July of each year, the owner or operator shall submit reports to the director which document the quality and quantity (on a dry basis) of each shipment of coal received during the previous six calendar months for the coal-fired fuel burning equipment and which demonstrate compliance with ~~the requirements of~~ paragraph (C)(7)(a)(i) of this rule. Data provided by the coal ~~supplier(s)~~ supplier may be used for these semi-annual reports if such data are accurate and representative of the quality and quantity of each shipment of coal received for the fuel burning equipment.
- (b) Any owner or operator of coal-fired fuel burning equipment who chooses to comply with ~~the requirements of~~ paragraph (C)(7)(a) of this rule in lieu of ~~the requirements of~~ paragraph (C)(1) or (C)(2) of this rule shall notify the director in writing. The written notification shall include sufficient information and commitments to demonstrate compliance with ~~the requirements of~~ paragraph (C)(7)(a) of this rule. If the information and commitments are adequate to demonstrate compliance with ~~all of the requirements of~~ paragraph (C)(7)(a) of this rule on a continuing basis, the alternative emission requirements shall be specified in the terms and conditions of the permit to operate or variance issued for the source.

Effective:

Five Year Review (FYR) Dates: 06/01/2017

Certification

Date

Promulgated Under: 119.03
Statutory Authority: 3704.03(E)
Rule Amplifies: 3704.03(A), 3704.03(E)
Prior Effective Dates: 7/17/72, 6/18/80, 10/1/83, 6/14/91, 1/2/08