3745-18-01 **Definitions and incorporation by reference.**

(A) Except as otherwise provided in paragraph (B) of this rule, the definitions in rule 3745-15-01 of the Administrative Code shall apply to this chapter.

(B) The following definitions shall apply exclusively to this chapter:

(1) "By-product coke oven gas" means the gas produced during the production of metallurgical coke in slot-type, by-product coke ovens.

(2) "Calendar day" means the period of twenty-four hours from midnight to midnight.

(3) "First quarter" means calendar January, February and March.

(4) "Fuel burning equipment" or "fossil fuel fired steam generator" means any furnace, boiler, apparatus, stack, and all appurtenances thereto, used in the process of burning fuel for the primary purpose of producing heat or power by indirect heat transfer.

(5) "Fossil fuel" means natural gas, coke oven gas, petroleum, coal and any form of solid, liquid, or gaseous fuel derived from such materials.

(6) "Fourth quarter" means calendar October, November and December.

(7) "Incinerator" means any equipment, machine, device, article, contrivance, structure, or part of a structure used to burn refuse or to process refuse material by burning other than by open burning.

(8) "MM Btu" means million(s) of British thermal units.

(9) "Natural gas" means a naturally occurring mixture of hydrocarbon and nonhydrocarbon gases found in geologic formations beneath the earth's surface, of which the principal constituent is methane.

(10) "Owner or operator" means any person who owns, leases, operates, controls, or supervises a facility, building, structure, or installation which directly or indirectly results or may result in emissions of sulfur dioxide.

(11) "OEPA" means the Ohio environmental protection agency.

(12) "Primary zinc smelter" means any installation engaged in the production of

zinc or zinc oxide from zinc sulfide ore concentrates through the use of pyrometallurgical techniques.

(13) "Process" means any source operation including any equipment, devices, or contrivances and all appurtenances thereto, for changing any material whatever or for storage or handling of any material, the use of which may cause the discharge of an air contaminant into the open air, but not including that equipment defined as a fossil fuel fired steam generator.

(14) "Process weight" means the total weight of all materials introduced into the source operation including solid fuels, but excluding gaseous fuels and liquid fuels when they are used solely as fuels and excluding air introduced for the purpose of combustion.

(15) "Rated capacity" or "rated heat input capacity" means the maximum capacity guaranteed by the equipment manufacturer or the maximum normally achieved during use as determined by the director, whichever is greater.

(16) "Run" means the net period of time during which an emission sample is collected. Unless otherwise specified, a run may be either intermittent or continuous within the limits of good engineering practice as determined by the director.

(17) "Second quarter" means calendar April, May and June.

(18) "Stationary gas turbine" means an engine in which a turbine is driven by expanding hot combustion gases. Such an engine typically consists of an axial-flow air compressor, one or more combustion chambers, and the turbine.

(19) "Stationary internal combustion engine" means a stationary engine in which combustion occurs within one or more cylinders, converting heat energy into mechanical energy, which in turn drives an electric generator or other mechanical equipment.

(20) "Sulfur recovery plant" means any plant that recovers elemental sulfur from any gas stream.

(21) "Sulfuric acid production unit" means any facility producing sulfuric acid by the contact process by burning elemental sulfur, alkylation acid, hydrogen sulfide, organic sulfides and mercaptans, or acid sludge.

(22) "Third quarter" means calendar July, August and September.

(23) "Total rated capacity" means the sum of the rated capacities of all fuel burning equipment connected to a common stack.

(C) Incorporation by reference. This chapter includes references to certain matter or materials. The text of the incorporated materials is not included in the regulations contained in this chapter. The materials are hereby made a part of the regulations in this chapter. For materials subject to change, only the specific version specified in the regulation are incorporated. Material is incorporated as it exists on the effective date of this rule. Except for subsequent annual publication of existing (unmodified) Code of Federal Regulation compilations, any amendment or revision to a referenced document is not incorporated unless and until this rule has been amended to specify the new dates.

(1) Availability. The materials incorporated by reference are available as follows:

(a) Code of Federal Regulations (CFR). Information and copies may be obtained by writing to: "Superintendent of Documents, Attn: New Orders, PO Box 371954, Pittsburgh, PA 15250-7954." The full text of the CFR is also available in electronic format at www.access.gpo.gov/~~nara/cfr~~ecfr/. The CFR compilations are also available for inspection and copying at most public libraries and "The State Library of Ohio."

(b) ~~Specifications of the~~ "American Society for Testing and Materials (ASTM)." Information and copies may be obtained by writing to: "ASTM International, 100 Bar Harbor Drive, P.O. Box C700, West Conshohocken, Pennsylvania 19426-2959." These documents are available for purchase at www.astm.org. ASTM documents are also generally available at local public libraries and "The State Library of Ohio."

(2) Incorporated materials~~.~~:

(a) 40 CFR 52.1881; "Control strategy: Sulfur oxides (sulfur dioxide);" as published in the July 1, 2005 Code of Federal Regulations.

~~(a) 40 CFR, Part 60; "Standards of Performance for New Stationary Sources;" 40 FR 53346, Nov. 17, 1975, as amended at 55 FR 51382, Dec. 13, 1990; 59 FR 12427, Mar. 16, 1994; 62 FR 52641, Oct. 8, 1997.~~

(b) 40 CFR~~, Section~~ 60.45; "Subpart 'D' -- Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction is Commenced After August 17, 1971, Emission and Fuel Monitoring;" 40 FR 46256, Oct. 6, 1975 as amended at 65 FR 61752, Oct. 17, 2000.

(c) 40 CFR~~, Section~~ 60.46; "Subpart 'D' -- Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction is Commenced After August 17, 1971, Test Methods and Procedures;" 54 FR 6662, Feb. 14, 1989; 54 FR 21344, May 17, 1989, as amended at 55 FR 5212, Feb. 14, 1990; 65 FR 61752, Oct. 17, 2000.

(d) 40 CFR~~, Section~~ 60.47a; "Subpart 'Da' -- Standards of Performance for Electric Utility Steam Generating Units for Which Construction Commenced After September 18, 1978, Emission Monitoring;" 44 FR 33613, June 11, 1979, as amended at 54 FR 6664, Feb. 14, 1989; 55 FR 5212, Feb. 14, 1990; 55 FR 18876, May 7, 1990; 63 FR 49454, Sept. 16, 1998; 65 FR 61752, Oct. 17, 2000; 66 FR 18553, Apr. 10, 2001.

(e) 40 CFR~~, Section~~ 60.47b; "Subpart 'Db' -- Standards of Performance for Industrial - Commercial - Institutional Steam Generating Units, Emission Monitoring for Sulfur Dioxide;" 52 FR 47842, Dec. 16, 1987, as amended at 54 FR 51820, Dec. 18, 1989; 55 FR 5212, Feb. 14, 1990; 55 FR 18876, May 7, 1990.

(f) 40 CFR~~, Section~~ 60.47c; "Subpart 'Dc' -- Standards of Performance for Small Industrial - Commercial - Institutional Steam Generating Units, Emission Monitoring for Sulfur Dioxide;" 55 FR 37683, Sept. 12, 1990, as amended at 65 FR 61753, Oct. 17, 2000.

(g) 40 CFR~~, Section~~ 60.85; "Subpart 'H' -- Standards of Performance for Sulfuric Acid Plants, Test Methods and Procedures;" 54 FR 6666, Feb. 14, 1989.

(h) 40 CFR Part 50; "Reference Method for the Determination of Sulfur Dioxide in the Atmosphere (Pararosaniline Method;" 47 FR 54899, Dec. 6, 1982; 48 FR 17355, Apr. 22, 1983.

(i) 40 CFR Part 53; "Ambient Air Monitoring Reference and Equivalent Methods;" as published in the July 1, 2005 Code of Federal Regulations.

(j) 40 CFR Part 60; "Standards of Performance for New Stationary Sources;" as published in the July 1, 2005 Code of Federal Regulations.

~~(h) "Appendix 'A' Test Methods," 40 C.F.R. Part 60; July 1, 1996 as amended at 64 FR 26484, May 14, 1999, and 65 FR 61744, October 17, 2000.~~

(k) "Appendix F, contained in 40 CFR Part 60; "Quality Assurance Procedures;" as published in the July 1, 2005 Code of Federal Regulations.

~~(i)~~(l) Method 1~~,~~ ; contained in 40 CFR Part 60, Appendix A; "Sample and Velocity Traverses for Stationary Sources; ~~Appendix 'A' Test Methods,~~" ~~40 C.F.R. Part 60; July 1, 1996 as amended at 64 FR 26484, May 14, 1999, and 65 FR 61744, October 17, 2000.~~as published in the July 1, 2005 Code of Federal Regulations.

~~(j)~~(m) Method 2~~,~~; contained in 40 CFR Part 60, Appendix A; "Determination of Stack Gas Velocity and Volumetric Flow Rate (Type 'S' Pitot Tube); ~~Appendix 'A' Test Methods,~~" ~~40 C.F.R. Part 60; July 1, 1996 as amended at 64 FR 26484, May 14, 1999, and 65 FR 61744, October 17, 2000.~~as published in the July 1, 2005 Code of Federal regulations.

~~(k)~~(n) Method 3~~,~~; contained in 40 CFR Part 60, Appendix A; "Gas Analysis for the Determination of Dry Molecular Weight; ~~Appendix 'A' Test Methods,~~" ~~40 C.F.R. Part 60; July 1, 1996 as amended at 64 FR 26484, May 14, 1999, and 65 FR 61744, October 17, 2000.~~as published in the July 1, 2005 Code of Feeederal Regulations.

~~(l)~~(o) Method 4~~,~~; contained in 40 CFR Part 60, Appendix A; "Determination of Moisture Content in Stack Gases; ~~Appendix 'A' Test Methods,~~" ~~40 C.F.R. Part 60; July 1, 1996 as amended at 64 FR 26484, May 14, 1999, and 65 FR 61744, October 17, 2000.~~ as published in the July 1, 2005 Code of Federal Regulations.

~~(m)~~(p) Method 6~~,~~; contained in 40 CFR Part 60, Appendix A; "Determination of Sulfur Dioxide Emissions from Stationary Sources; ~~Appendix 'A' Test Methods,~~" ~~40 C.F.R. Part 60; July 1, 1996 as amended at 64 FR 26484, May 14, 1999, and 65 FR 61744, October 17, 2000.~~ as published in the July 1, 2005 Code of Federal Regulations.

~~(n)~~(q) Method ~~'6A,'~~6A; contained in 40 CFR Part 60, Appendix A; "Determination of Sulfur Dioxide, Moisture, and Carbon Dioxide from Fuel Combustion Sources; ~~Appendix 'A' Test Methods,~~" ~~40 C.F.R. Part 60; July 1, 1997 as amended at 64 FR 26484, May 14, 1999, and 65 FR 61744, October 17, 2000.~~as published in the July 1, 2005 Code of Federal Regulations.

~~(o)~~(r) Method ~~'6B,'~~6B; contained in 40 CFR Part 60, Appendix A; "Determination of Sulfur Dioxide and Carbon Dioxide Daily Average Emissions from Fossil Fuel Combustion Sources; ~~Appendix 'A' Test Methods,~~" ~~40 C.F.R. Part 60; August 20, 1996 as amended at 64 FR 26484, May 14, 1999, and 65 FR 61744, October 17, 2000.~~as published in the July 1, 2005 Code of Federal Regulations.

~~(p)~~(s) Method ~~'6C,'~~6C; contained in 40 CFR Part 60, Appendix A; "Determination of Sulfur Dioxide Emissions from Stationary Sources (Instrumental Analyzer Procedure); ~~Appendix 'A' Test Methods,~~" ~~40 C.F.R. Part 60; July 1, 1996 as amended at 64 FR 26484, May 14, 1999, and 65 FR 61744, October 17, 2000.~~as published in the July 1, 2005 Code of Federal Regulations.

~~(q)~~(t) Method 19~~,~~; contained in 40 CFR Part 60, Appendix A; "Determination of Sulfur Dioxide Removal Efficiency and Particulate Matter, Sulfur Dioxide, and Nitrogen Dioxide Emission Rates; ~~Appendix 'A' Test Methods,~~" ~~40 C.F.R. Part 60; April 15, 1996 as amended at 64 FR 26484, May 14, 1999, and 65 FR 61744, October 17, 2000.~~as published in the July 1, 2005 Code of Federal Regulations.

~~(r) "Appendix 'B' Performance Specifications;" 40 C.F.R. Part 60; July 1, 1996, as amended at 65 FR 61744, October 17, 2000.~~

~~(s)~~(u) "Performance Specification 2 contained in Appendix B of 40 CFR Part 60;~~,~~ "Specifications and Test Procedures for Sulfur Dioxide and Nitric Oxides Continuous Emission Monitoring Systems in Stationary Sources;" ~~40 CFR Part 60, Appendix #128;#B#128;#; July 1, 1996, as amended on 65 FR 61744 October 17, 2000~~ .as published in the July 1, 2005 Code of Federal Regulations.

~~(t) "Appendix 'F' Quality Assurance Procedures;" 40 C.F.R. Part 60; July 1, 1996.~~

~~(u) Appropriate "American Society for Testing and Materials" test methods, including the following:~~

~~(i) ASTM D 129-00, "Standard Test Method for Sulfur in Petroleum Products (General Bomb Method);" approved January 10, 2000;~~

~~(ii) ASTM D 129-98, "Standard Test Method for Sulfur in Petroleum Products (Lamp Method);" approved February 10, 1998;~~

~~(iii) ASTM D 1552-95, "Standard Test Method for Sulfur in Petroleum~~

~~Products (High Temperature Method);" approved August 15, 1995;~~

~~(iv) ASTM D 2622-98, "Standard Test Method for Sulfur in Petroleum Products by Wavelength Dispersive X-Ray Fluorescence Spectrometry;" approved April 10, 1998;~~

~~(v) ASTM D 4294-98, "Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy Dispersive X-Ray Fluorescence Spectrometry;" approved April 10, 1998;~~

~~(vi) ASTM D 4045-99, "Standard Test Method for Sulfur in Petroleum Products by Hydrogenolysis and Rateometric Colorimetry;" approved January 10, 1999;~~

~~(vii) ASTM D 2492-90, "Standard Test Method for Forms of Sulfur in Coal;" approved March 30, 1990, reapproved 1998;~~

~~(viii) ASTM D 3176-89, "Standard Practice for Ultimate Analysis of Coal and Coke;" approved September 29, 1989, reapproved 1997;~~

~~(ix) ASTM D 4749-87, "Standard Test Method for Performing the Sieve Analysis of Coal and Designating Coal Size;" approved November 27, 1987, reapproved 1994;~~

~~(x) ASTM D 4913-89, "Standard Practice for Determining Concentration of Hydrogen Sulfide by Direct Reading, Length of Stain, Visual Chemical Detectors;" approved February 24, 1989, reapproved 1995;~~

~~(xi) ASTM D 4810-88, "Standard Test Method for Hydrogen Sulfide in Natural Gas Using Length-of-Stain Detector Tubes;" approved April 29, 1988, reapproved 1999; and~~

~~(xii) ASTM D 4239-00, "Standard Test Methods for Sulfur in the Analysis Sample of Coal and Coke Using High-Temperature Tube Furnace Combustion Methods;" approved April 10, 2000.~~

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