

**CLARK COUNTY**

**AIR QUALITY REGULATIONS**

**SECTION 28 - FUEL BURNING EQUIPMENT**

**28.1 General Provisions**

28.1.1 This regulation applies to installation in which FUEL is burned for the primary purpose of producing heat or power by indirect heat transfer in which the products of combustion do not come into direct contact with other materials. FUELS include those such as coke, coal, lignite, coke breeze, FUEL OIL, and wood, but do not include refuse. When any products or by-products of a manufacturing process are burned for the same purpose or in conjunction with any FUEL, the same maximum emission limitations shall apply.

28.1.2 The heat content of coal shall be determined according to ASTM method D-271-64 Laboratory Sampling and Analysis of Coal or Coke or ASTM method D-2015-62T gross calorific value of solid fuel by the Adiabatic Bomb Calorimeter, which publications are made a part of this section by reference.

28.1.3 For purposes of this regulation the heat input shall be the aggregate heat content of all FUELS whose products of combustion pass through a stack or stacks. The heat input value used shall be the equipment manufacturer's or designer's guaranteed maximum input, whichever is greater. The total heat input of all FUEL-BURNING UNITS on a plant or premises shall be used for determining the maximum allowable amount of PARTICULATE MATTER which may be EMITTED.

28.1.4 The amount of PARTICULATE MATTER EMITTED shall be measured according to the American Society of Mechanical Engineers' Power Test Codes PTC-27, dated 1957 entitled, "Determining Dust Concentrations in a Gas Stream," which publication is made a part of this section by reference. The CONTROL OFFICER may modify this testing procedure or specify the use of more current procedures in accordance with good professional practice.

**28.2 Emission Limitations**

28.2.1 No PERSON shall cause or permit the EMISSION of PARTICULATE MATTER from any FUEL-BURNING EQUIPMENT in excess of the quantity set forth in the following table:

Heat input, millions of BRITISH THERMAL UNITS per hour -----	Maximum allowable rate of EMISSION of PARTICULATE MATTER, pounds per million BRITISH THERMAL UNITS of heat -----
10	0.600
50	0.412
100	0.352
500	0.242
1,000	0.207
4,000	0.150
8,000	0.102
10,000	0.0904
15,000	0.0717
20,000	0.0607
40,000	0.0409
50,000	0.0358
100,000	0.0243

28.2.2 Maximum allowable EMISSION rates of PARTICULATE MATTER for heat input greater than 10 million but less than 4000 million BTU per hour shall be determined by using the equation  $Y = 1.02 X^{-0.231}$ . Maximum allowable EMISSION rates of PARTICULATE MATTER for heat inputs equal to or greater than 4000 million BTU per hour shall be determined by using the equation  $Y = 17.0 X^{-0.568}$  where Y = allowable rate of EMISSION in pounds per million BTU and X = maximum heat input in millions of BTU per hour.

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History: Amended: April 23, 1987; April 24, 2001; June 3, 2003; July 1, 2004.