

Clean Air (Standards) Regulations

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CLEAN AIR ACT (CHAPTER 45, SECTION 25)

CLEAN AIR (STANDARDS) REGULATIONS

Rg 1

REVISED EDITION 1990

(25th March 1992)

[15th January 1972]

Citation

1. These Regulations may be cited as the Clean Air (Standards) Regulations.

Dark smoke

- 2.—(1) For the purposes of section 9 of the Act, “dark smoke” includes smoke of any

colour whatsoever which appears to the Director or any authorised officer —

- (a) to be as dark as or darker than shade No. 2 on a chart of the type known as the Ringelmann Chart;
- (b) when observed or recorded with such instrument or device as the Director may approve, to be as dark as or darker than shade No. 2 on the Ringelmann Chart; or
- (c) to be of such opacity as to cause obscuration to a degree equivalent to smoke as dark as or darker than shade No. 2 on the Ringelmann Chart.

(2) Section 9 of the Act shall not apply to the emission of dark smoke from a chimney for less than 5 minutes in any period of one hour:

Provided that the total number of emissions from that chimney shall not exceed 3 times in any one day.

Methods of smoke indication

3. The occupier of any trade or industrial premises in or on which any industrial plant or fuel burning equipment is situated shall, if so required by the Director, provide a means to the satisfaction of the Director whereby any person in charge of such plant or equipment may at all times readily ascertain without leaving the boiler room, furnace room, or control room, whether or not smoke is discharging from any chimney on such premises. Such means may include one or more of the following:

- (a) a window or other opening through which an unobstructed view of the top of the chimney may be obtained from the boiler room, furnace room or control room;
- (b) a mirror so placed as to reflect the top of the chimney, which reflection shall be visible from the boiler room, furnace room or control room;
- (c) a smoke density indicator and alarm installed so as to indicate adequately in the boiler room, furnace room or control room the density of smoke being discharged;
- (d) a closed circuit television installation with the receiver located in the boiler room, furnace room or control room;
- (e) any device which may be approved by the Director.

Standards of concentration of air impurities

4.—(1) The prescribed standards of concentration of air impurities in the conduct of any trade, industry or process or the operation of any fuel burning equipment or industrial plant shall be as set out in this regulation.

(2) In any trade, industry, process, fuel burning equipment or industrial plant (other than plant or equipment used for the heating of metals) in the operation of which dust or other solid particles are emitted, the concentration at any point of smoke, soot, dust, ash (including fly-ash), cinders, cement, lime, alumina, grit or other solid particles of any kind shall be such that the total mass of such solid particles before admixture with air, smoke or other gases does not exceed 0.20 gramme in each normal cubic metre of effluent gases.

(3) In any trade, industry, process, industrial plant or fuel burning equipment used for the heating of metals (other than cold blast foundry cupolas) the concentration at any point of any solid particles shall be such that the total mass of such solid particles before admixture with air, smoke or other gases does not exceed 0.20 gramme in each normal cubic metre of effluent gases.

(4) In any trade, industry or process —

- (a) other than combustion processes and plant for the manufacture of sulphuric acid, in the operation of which sulphuric acid mist or sulphur trioxide is emitted, the concentration at any point of sulphuric acid mist or sulphur trioxide or both after completion of an operation and before admixture with air, smoke or other gases, shall not exceed the equivalent of 0.10 gramme of sulphur trioxide in each normal cubic metre of effluent gases;
- (b) in which sulphuric acid is manufactured, the concentration at any point of acid gases after completion of manufacture and before admixture with air, smoke or other gases, shall not exceed the equivalent of 3.0 grammes of sulphur trioxide in each normal cubic metre of effluent gases; and the effluent gases when discharged into the general atmosphere shall be free from persistent mist;
- (c) in the operation of which fluorine, hydrofluoric acid or inorganic fluorine compounds are emitted from any source, the concentration at any point of fluorine, hydrofluoric acid or any inorganic fluorine compounds after completion of any operation and before admixture with air, smoke or other gases, shall not exceed the equivalent of 0.10 gramme of hydrofluoric acid in each normal cubic metre of effluent gases;
- (d) in the operation of which hydrogen chloride is emitted from any source, the concentration at any point of hydrogen chloride after completion of an operation and before admixture with air, smoke and other gases shall not exceed 0.20 gramme of hydrogen chloride in each normal cubic metre of effluent gases;
- (e) in the operation of which chlorine gas is emitted from any source, the concentration at any point of chlorine gas after completion of an operation