

(51.5) PART 227 - STATIONARY COMBUSTION INSTALLATIONS

(51.7)
(51.5)

~~Section 227.1 Bituminous Coal~~

~~No person shall construct, install or modify, or cause to be constructed, installed or modified, within New York State, any stationary combustion installation designed to burn bituminous coal, hand fired.~~

(50.1) Section 227.2 Particulate Emissions

- ~~a. Except as required under Section 227.2b, no person shall cause, permit, or allow to be emitted into the outdoor atmosphere from any stationary combustion installation burning coal and/or wood, particulates in excess of the permissible emission rates specified in Table 1. The total heat input under normal operating conditions shall be used to determine the permissible emission rate. If two or more furnaces are connected to a common air cleaning device and/or stack, the total heat input of all furnaces connected to the device and/or stack shall be the heat input for the purpose of computing the permissible emission rate. If two or more furnaces having individual air cleaning devices are connected to a single stack, the permissible emission rate shall be the sum of the permissible emission rate from each furnace.~~
- b. No person shall cause, permit, or allow a two hour average emission into the outdoor atmosphere of particulates in excess of 0.10 pound per million BTU heat input from:
1. any oil fires stationary combustion installation, or
 - ~~2. any coal fires stationary combustion installation of more than 250 million BTU per hour total heat input for which an application for a Permit to Construct is submitted subsequent to the effective date of this Part.~~
- c. Upon written application, the Commissioner may exempt a person from the provisions of this section, when in view of the properties of the emissions, isolated conditions, stack height and other factors, it is clearly demonstrated that the emission thus permitted will not cause a contravention of established ambient air quality standards.

(50.1.2) Section 227.3 Smoke Emissions

- a. No person shall construct, install, use or cause to be used a stationary combustion installation which emits smoke the ~~shade or appearance of which is equal to or greater than~~

- ~~1. Number 1 on the Ringelmann Chart, or twenty (20) percent opacity, for a period of three (3) or more minutes during any continuous sixty (60) minute period, or~~
 - ~~2. Number 2 on the Ringelmann Chart for forty (40) percent opacity, for any time period.~~
- b. Startup and emergency emissions in excess of those allowed under Section 227.3(a) may be excepted by the Commissioner upon demonstration by the source owner that such excessive emissions were not preventable.

(50.3) Section 227.4 Nitrogen Oxides

No person shall cause or allow to be emitted to the outdoor atmosphere from any stationary combustion installation of more than 250 million BTU per hour total heat input which was:

- a. constructed or
- b. modified so as to increase the amount of air contaminants emitted and for which a permit to construct has been submitted subsequent to the effective date of this Part, more than:
 1. 0.70 pound per million BTU heat input for a maximum 2-hour average when solid fuel is burned.
 2. 0.30 pound per million BTU heat input for a maximum 2-hour average when fuel oil is burned.
 3. 0.20 pound per million BTU heat input for a maximum 2-hour average when gaseous fuel is burned.

(9.0) Section 227.5 Stack Monitoring

- a. Any person who owns a stationary combustion installation of more than 250 million BTU per hour total heat input shall install and operate in accordance with manufacturer's instructions, instruments, approved by the Commissioner, for continuously monitoring and recording smoke from such installations at all times that the combustion installation is in service. Where gas is the only fuel burned, monitoring and recording of smoke is not required.
- b. Any person required to control nitrogen oxides in accordance with Section 227.4 shall install and operate in accordance with manufacturer's instructions, instruments approved by the Commissioner for continuously monitoring and recording nitrogen oxides from such installations at all times that the stationary combustion installation is in service.

~~c. Any person required under this section to monitor stack emission shall determine the average rate of each fuel burned daily and shall determine at least once per week, the gross heating value and ash content of each fuel burned. In the case of combustion installations producing electricity for sale, the average electrical output and the minimum and maximum hourly generation rate shall also be measured.~~

d. Any person subject to the provisions of this section shall record and maintain a file of such measurements and operating data, as may be required by the Commissioner, and shall tabulate and summarize such measurements and operating data in a format acceptable to the Commissioner. Such person shall retain records and summaries for at least three years, and upon request of the Commissioner shall furnish such records and summaries.

(2.0) Section 227.6 Fuel Mixtures

When two or more different fuels are burned simultaneously in a single furnace of a stationary combustion installation, the permissible emission rate shall be the sum of the permissible emission rate for each fuel multiplied by BTU input derived from that fuel.

(2.0) Section 227.7 Corrective Action

- a. Any person found to have violated any provision of this Part shall not cause, permit or allow operation of the stationary combustion installation involved in the violation unless
1. it is equipped with approved emission control equipment or
 2. it is rehabilitated or upgraded in an approved manner or
 3. the fuel is changed to an acceptable type.
- b. The Commissioner may seal such stationary combustion installation so as to prevent any operation if the conditions of subdivision 1, 2 and 3 of paragraph 227.7a are not met within the time provided by the order of final determination issued in the case of the violation.
- c. No person shall cause, permit or allow operation of any stationary combustion installation sealed by the Commissioner in accordance with this section.

- ~~d. No person except the Commissioner or his representative shall remove, tamper with or destroy any seal affixed to any stationary combustion installation in accordance with this section.~~

(2.0) Section 227.8 General

a. Emission Data

Any person who owns or operates a stationary combustion installation described in Section 227.2 and 227.4 shall provide pertinent data concerning emission, when so requested by the Commissioner.

b. Test Methods

Sampling, compositing, and analysis of fuel samples shall be carried out in accordance with the most recent ASTM standard methods or equivalent methods acceptable to the Commissioner.

(4.0) Section 227.9 Ambient Air Quality Standards

Notwithstanding the provisions of this Part, no person shall emit air contaminants in quantities which, alone or in combination with emissions from other sources, would contravene any established standard for the quality of the ambient air, or would cause air pollution.

(1.0) Section 227.10 Definitions

- a. "Opacity" means the degree to which emissions other than condensed water reduce the transmission of light and obscure the view of an object in the background.

TABLE I

~~Permissible Emission Rates for Stationary
Combustion Installations Burning Solid Fuel~~

Total Heat Input (million BTU/hr)	Permissible Emission Rate** (lb/million BTU)
*	
1 to 10	0.600
20	0.550
30	0.500
40	0.450
50	0.440
60	0.420
70	0.400
80	0.390
90	0.380
100	0.370
200	0.320
300	0.290
400	0.275
500	0.262
600	0.252
700	0.242
800	0.236
900	0.230
1,000	0.225
2,000	0.193
3,000	0.177
4,000	0.166
5,000	0.158
6,000	0.152
7,000	0.147
8,000	0.142
9,000	0.139
10,000	0.136

*(a) Installations having a total heat input less than one million BTU/hr are exempted.

** (b) Total heat input between 10-10,000 million BTU/hr:
 use $E = .02/p^{.219}$ to determine the permissible emission rate where
 E = permissible emission rate in lb/million BTU
 P = total heat input in million BTU/hr

~~(c) Individual combustion installations with a total heat input equal to or less than 300 million BTU/hr and in operating prior to June 1, 1972, may exceed the values in Table I provided they meet the following criteria:~~

- ~~1. Spreader stokers - Permissible emission rate shall not exceed 0.60 lb/million BTU input.~~
- ~~2.~~

Total Heat Input (million BTU/hr)	Permissible Emission Rate (lb/million BTU)***
1 - 100	0.60
200	0.45
300	0.30

~~***Calculate intermediate values by linear interpretation.~~