

CHAPTER 1200-3-6
NON-PROCESS EMISSION STANDARDS

1200-3-6-.01 GENERAL NON-PROCESS EMISSIONS

- (1) No person shall cause, suffer, allow or permit emissions in excess of the standards in this Chapter.
- (2) In any county where one or more sources are emitting particulates at rates in conformity with applicable maximum allowable emission rates and the ambient air quality standard for particulate matter is being exceeded, the Board shall be responsible for setting an appropriate emission standard for each source contributing to the particulate matter in the ambient air of the county, at such value as the Board may consider necessary to achieve the desired air quality.

The Tennessee Air Pollution Control Board has found that the ambient air quality standards for particulate matter are being violated in portions of those counties identified in Chapter 1200-3-19 of these regulations. The Board has set emission standards for certain existing sources located in these areas that are in addition to the standards in this Chapter or any less stringent local emission standards. Applicable non-process emission standards for sources located in or significantly impacting the non-attainment areas are to be found in Chapter 1200-3-19 of these regulations.

- (3) The owner or operator of an existing fuel burning installation proposing to make a modification of this source or to rebuild or replace it shall only take such action if it will result in the source meeting the maximum allowable emission standards for a new fuel burning installation.
- (4) As used in this Chapter, existing installations or equipment shall mean such as were under construction or in operation prior to the effective date of these regulations.
- (5) For the purpose of determining the applicable emission standards in this chapter, a change in fuel from natural gas, propane, butane and/or fuel oil to any of these herein named fuels and any required alterations to existing fuel burning equipment to accommodate these fuels shall not be considered a modification. This shall not apply to sources identified in rule 1200-3-9-.01(4). However, the allowable emissions for the source will not change unless Best Available Control Technology is required.
- (6) Regardless of the specific emission standards contained in this Chapter a new or modified non-process source locating in or significantly impacting upon a nonattainment area shall comply with the provisions of rule 1200-3-9-.01 (5) prior to receiving a construction permit.

- (7) Upon mutual agreement of the owner or operator of any air contaminant source and the Technical Secretary, an emission limit more restrictive than that otherwise specified in this Chapter may be established. The emission limit shall be stated as a special condition for any permit or order issued concerning the source. Violation of this agreed to, more stringent emission standard is grounds for revocation of the issued permit and/or other enforcement measures provided for in the Tennessee Air Quality Act.
- (8) Regardless of the specific emission standards contained in this chapter, all non-process sources identified in rule 1200-3-9-.01- (4) if these regulations shall comply with the standards set pursuant to rule 1200-3-9.

Authority: *T.C.A. Section 68-25-105. Administrative History. Original Rule certified June 7, 1974. Amended effective date February 9, 1978. Amended June 16, 1978. Amended effective March 21, 1979. Amended June 21, 1979.*

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1200-3-6-.02 NON-PROCESS PARTICULATE EMISSION STANDARDS

(1) Existing Fuel Burning Equipment

The maximum hour allowable particulate emissions for a fuel burning installation commenced before April 3, 1972, shall be determined from the following equations:

$$\begin{array}{lll} E = 0.600 & \text{for} & Q \leq 10.0 \times 10^6 \text{ Btu/hr} \\ E = 0.600 \cdot 10^{0.2594} & \text{for} & 10.0 \times 10^6 \text{ Btu/hr} < Q < 10.0 \times 10^9 \text{ Btu/hr} \\ E = 0.100 & \text{for} & Q \geq 10.0 \times 10^9 \text{ Btu/hr} \end{array}$$

E = allowable particulate emissions in lb. per million Btu.

Q = total installation heat input in million Btu per hour.

(2) New Fuel Burning Equipment

- (a) The maximum allowable particulate emissions for a fuel burning installation commenced on or after April 3, 1972, shall be determined from the equation:

$$\begin{array}{lll} E = 0.600 & \text{for} & Q \leq 10.0 \times 10^6 \text{ Btu/hr} \\ E = 0.600 \cdot 10 / Q^{0.5566} & \text{for} & 10.0 \times 10^6 \text{ Btu/hr} < Q < 250 \times 10^6 \text{ Btu/hr} \\ E = 0.100 & \text{for} & Q \geq 250 \times 10^6 \text{ Btu/hr} \end{array}$$

where, E and Q are as defined in paragraph (1) above.

- (b) Where only part of the fuel burning equipment in a fuel burning installation is constructed or modified on or after April 3, 1972, the maximum allowable particulate emissions is determined by the following equation:

$$E_t = Q_x \times E_x + Q_y \times E_y$$

Where,

E_t = Allowable particulate emission in lb/hr,

Q_x = total heat input for existing equipment in million Btu/hr,

Ex = allowable emissions for installation of size Qx as determined by paragraph (1) above in million Btu,

Qy = total heat input for new equipment in million Btu/hr.

Ey = allowable emissions for installation of size Qy as determined by subparagraph (a) above in lb. per million Btu.

(3) Incinerators

- (a) The maximum allowable particulate emissions from incinerators is 0.200 per cent of the charging rate for incinerators with a 2000 pound per hour charging rate or less and 0.100 per cent of the charging rate for incinerators with a charging rate greater than 2000 pounds per hour.
- (b) Incinerators having 2.50 cubic feet of furnace volume or less solely for the disposal of ineffective dressings and other similar material shall not be required to meet the emission standards of this chapter.

(4) Deleted. (Effective September 8, 1980).

Authority: *T.C.A. Section 68-25-105. Administrative History. Original Rule certified June 7, 1974. Amended effective February 9, 1977. Amended effective March 21, 1979. Amended effective September 8, 1980.*

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1200-3-6-.03 GENERAL NON-PROCESS GASEOUS EMISSIONS

- (1) No person shall cause, suffer, allow or permit gaseous emissions in excess of the standards in this Chapter.
- (2) Any person constructing or otherwise establishing an air contaminant source emitting gaseous air contaminants after April 3, 1972, shall install and utilize the best equipment and technology currently available for controlling such gaseous emission.

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1200-3-6-.05 WOOD-FIRED FUEL BURNING EQUIPMENT

- (1) Any wood fired fuel burning equipment commenced before the effective date of this rule, must comply with the following emission standards shown below:
 - (a) 0.330 grains of particulate matter per standard dry cubic foot of exhaust gases, corrected to 12% carbon dioxide for fuel burning equipment up to and including 50 million Btu per hour heat input.
 - (b) 0.300 grains of particulate matter per standard dry cubic foot of exhaust gases, corrected to 12% carbon dioxide for fuel burning equipment of 100 million Btu per hour heat input or in excess thereof.
 - (c) The allowable emissions for wood-fired fuel burning equipment between 50 million and 100 million Btu per hour heat input is that determined by linear interpolation between the values in subparagraphs (a) and (b).
 - (d) 0.56 grains of particulate matter per dry standard cubic foot of exhaust gases, corrected to 12% carbon dioxide for fuel burning equipment up to and including 50 million Btu per hour heat input for counties identified in paragraph (8) (d) of this rule.
 - (e) The allowable for wood fired fuel burning equipment between 50 million and 100 million Btu per hour heat input is that determined by linear interpolation between the values in subparagraphs (d) and (b) for counties identified in paragraph (8) (d) of this rule.
- (2) Any wood fired fuel burning equipment commenced on or after the effective date of this rule must comply with the emission standards shown below:
 - (a) 0.330 grains of particulate matter per standard dry cubic foot of exhaust gases, corrected to 12% carbon dioxide for fuel burning equipment up to, and including 25 million Btu per hour heat input.
 - (b) 0.200 grains of particulate matter per standard dry cubic foot of exhaust gases, corrected to 12% carbon dioxide for fuel burning equipment of 100 million Btu per hour heat input or in excess thereof.
 - (c) The allowable emissions for wood-fired fuel burning equipment between 25

million and 100 million Btu per hour heat input is that determined by linear interpolation between the value in subparagraphs (a) and (b).

- (3) Wood as used in this rule means:
 - (a) Bark.
 - (b) Sawdust or other woody plant tissues (lignified xylem) mechanically reduced in size, but not chemically changed.
 - (c) Any combination of the materials in (a) and (b).
- (4) Any fuel burning installation with wood fired fuel burning equipment such that said wood fired fuel burning equipment has 100 million Btu heat input per hour or in excess thereof, shall install, calibrate, maintain and operate a photoelectric or any other type opacity monitor and recorder that has been approved by the Technical Secretary and is of the type referred to in the Federal Register, Volume 48, Number 62, March 30, 1983, beginning on page 13327. This paragraph does not apply where the moisture content of the exhaust is so high that condensation occurs in the stack.
- (5) This rule only applies to that fuel burning equipment designed to burn wood and when the burning of wood provides at least 30% of the heat input of the unit. At other times the unit will revert to being regulated by Rule 1200-3-6-.02. This rule 1200-3-6-.05 does not apply to units burning coal or liquid fuels other than fuel oils.
- (6) Where fuel burning equipment units in the same fuel burning installation are subject to this rule and are regulated by two different grain loading limits, an average weighted directly on the flow rates will determine the allowable emission limit.
- (7) When a wood fired fuel burning equipment is on a common stack with other air contaminant sources, then the wood fired units shall be considered independent of the other air contaminant sources.
- (8) The applicability of this rule shall be as follows:
 - (a) Paragraph (2) of this rule shall apply to all wood fired fuel burning equipment commenced on or after March 1, 1978 except for those units in Davidson, Hamilton, Knox, and Shelby counties.
 - (b) Paragraph (1) subparts (a) and (c) shall apply to all wood fired fuel burning equipment commenced on or after March 1, 1978 in Madison, Bedford, Hamblen and Coffee counties.
 - (c) Paragraph (1) subpart (b) shall apply to wood fired fuel burning equipment

commenced before March 1, 1978 except for units in Davidson, Hamilton, Knox, and Shelby counties.

- (d) Paragraphs (1) (d) and (e) shall apply to all wood fired fuel burning equipment commenced before March 1, 1978 in Bradley, Claiborne, Cocke, Cumberland, Dickson, Fentress, Franklin, Gibson, Giles, Grainer, Greene, Henry, Jefferson, Lawrence, Loudon, Macon, Marion, Marshall, McMinn, Montgomery, Polk, Putnam, Rhea, Rutherford, Scott, Sevier, Sumner, Warren, Wayne, Weakley, White, Williamson, and Wilson.
- (9) Except as mentioned in paragraph (8) of this rule, all existing wood-fired fuel burning equipment of 50 million Btu per hour heat input or less shall be regulated by Rule 1200-3-6-.02.

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