

3745-103-35

1985 allowable SO₂ emissions rate.

(A) Data requirements. The designated representative of the combustion source shall submit the following data and the calculations under paragraph (BC) of this rule based on the submitted data:

- (1) Allowable SO₂ emissions rate of the combustion source expressed in pounds per MMBtu as defined under rule 3745-103-01 of the Administrative Code for the calendar year specified in paragraph (AB)(2) of this rule. If the allowable SO₂ emissions rate is not expressed in pounds per MMBtu, the allowable emissions rate shall be converted to pounds per MMBtu by multiplying the emissions rate by the appropriate factor as specified in Table 1 of this rule.

Table 1: Factors to convert emission limits to pounds of SO₂/MMBtu

Unit Measurement	Bituminous Coal	Subbituminous Coal	Lignite Coal	Oil
lbs sulfur/MMBtu	2.0	2.0	2.0	2.0
% sulfur in fuel	1.66	2.22	2.86	1.07
PPM SO ₂	0.00287	0.00384		0.00167
PPM sulfur in fuel	--	--	--	0.00334
Tons SO ₂ /hour	2 X 8760 /(annual fuel consumption for specified year ¹ * 10 ³)			
lbs SO ₂ /hour	8760 /(annual fuel consumption for specified year ¹ * 10 ⁶)			

¹ Annual fuel consumption as defined under paragraph (B)(1) or (B)(2) of rule 3745-103-33 of the Administrative Code or; specified calendar year as defined under paragraph (A)(2) of rule 3745-103-35 of the Administrative Code.

- (2) Citation of statute, regulations, and any other authority under which the allowable emissions rate under paragraph (A)(1) of this rule is established as applicable to the combustion source.
- (3) Averaging time associated with the allowable emissions rate under paragraph (A)(1) of this rule.
- (4) The annualization factor for the combustion source, based on the type of combustion source and the associated averaging time of the allowable emissions rate of the combustion source, as set forth in the Table 2 of this

rule:

Table 2: Annualization factors for SO₂ emission rates

Type of Combustion Source	Annualization Factor for Scrubbed Unit	Annualization Factor for Unscrubbed Unit
Unit combusting oil, gas, or some combination	1.00	1.00
Coal unit with averaging time < = 1 day	0.93	0.89
Coal unit with averaging time = 1 week	0.97	0.92
Coal unit with averaging time = 30 days	1.00	0.96
Coal unit with averaging time = 90 days	1.00	1.00
Coal unit with averaging time = 1 year	1.00	1.00
Coal unit with federal limit, but averaging time not specified	0.93	0.89

(B) Calendar year.

- (1) For combustion sources that commenced operation prior to January 1, 1985, the calendar year for the allowable SO₂ emissions rate shall be 1985.
- (2) For combustion sources that commenced operation after January 1, 1985, the calendar year for the allowable SO₂ emissions rate shall be the first year of the three consecutive calendar years of the alternative baseline under paragraph (B)(2) of rule 3745-103-33 of the Administrative Code.
- (3) For combustion sources meeting the requirements of paragraph (C) of rule 3745-103-33 of the Administrative Code, the calendar year for calculating the allowable SO₂ emissions rate shall be the first year of the three consecutive calendar years to be used as alternative data under paragraph (C) of rule 3745-103-33 of the Administrative Code.

(C) 1985 allowable SO₂ emissions rate calculation. The allowable SO₂ emissions rate for

the specified calendar year shall be calculated as follows:

$$\text{1985 allowable SO}_2 \text{ emissions rate} = \frac{\text{(allowable SO}_2 \text{ emissions rate)}}{\text{(annualization factor)}} \times$$

Effective:

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Certification

Date

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