

**DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL**  
**DIVISION OF AIR QUALITY**  
**1100 Division of Air Quality**

**1109 Emissions of Sulfur Compounds From Industrial Operations**

**1.0 General Provisions**

- 1.1 The emission of sulfur dioxide from process operations shall be controlled to a limit that shall meet the ambient air quality requirements.
- 1.2 For all tables in this regulation, unless otherwise indicated, the emission limitation for a production rate between any 2 consecutive production rates shall be determined by linear interpolation.
- 1.3 For all tables in this regulation, unless otherwise indicated, the emission limitation for a production rate above the maximum production rate or below the minimum production rate shall be determined by linear extrapolation.

**28 DE Reg. 591 (02/01/25)**

**2.0 Restrictions on Sulfuric Acid Manufacturing Operations**

- 2.1 No person shall cause or allow the emission of sulfur dioxide in the tail gases from any existing sulfuric acid manufacturing operation to exceed either a concentration of 1,000 parts per million by volume or a mass emission rate as specified in Table 2-1 of this regulation.

**TABLE 2-1**  
**ALLOWABLE MASS EMISSION RATE OF SULFUR DIOXIDE FROM**  
**EXISTING SULFURIC ACID MANUFACTURING OPERATIONS**

Production Rate (Tons per Day)	Mass Emission Rate (Pounds per Hour)
100	75
300	210
500	345
700	480
900	615
1,100	750
1,300	885
1,500	1020

- 2.2 No person shall cause to be discharged into the atmosphere from any existing sulfuric acid plant any gases which contain acid mist, expressed as  $H_2SO_4$ , in excess of 0.25 g per kg of acid produced (0.5 lb per ton) the product being expressed as 100%  $H_2SO_4$ .
- 2.3 The provisions of subsection 2.2 of this regulation shall not apply to acid plants used as sulfur dioxide control systems, to chamber process plants, to acid concentrators or to petroleum storage and transfer facilities.
- 2.4 The reference methods used to determine compliance with standards prescribed in subsection 2.2 of this regulation shall be those set forth in 1.5 of 7 **DE Admin. Code** 1120.

**28 DE Reg. 591 (02/01/25)**

**3.0 Restriction on Sulfur Recovery Operations**

- 3.1 No person shall cause or allow the emission of sulfur dioxide in the tail gases from existing sulfur recovery operations to exceed either a concentration of 2,000 parts per million by volume or a mass emission rate as specified in Table 3-1 of this regulation.

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**TITLE 7 NATURAL RESOURCES & ENVIRONMENTAL CONTROL**  
**DELAWARE ADMINISTRATIVE CODE**

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**TABLE 3-1**  
**ALLOWABLE MASS EMISSION RATE OF SULFUR DIOXIDE**  
**FROM SULFUR RECOVERY OPERATIONS**

Production Rate (Tons per Day)	Mass Emission Rate (Pounds per Hour)
50	425
100	550
200	800
300	1,050
400	1,300
500	1,550
600	1,800
700	2,050
800	2,300
900	2,550
1,000	2,300

- 3.2 Except as provided in Section 11.0 of 7 **DE Admin. Code** 1120, NEW SOURCE PERFORMANCE STANDARDS, no person shall cause or allow the emission of sulfur dioxide in the tail gases from new sulfur recovery operations to exceed either a concentration of 2,000 parts per million by volume or a mass emission rate as specified in Table 3-1 of this regulation.

**28 DE Reg. 591 (02/01/25)**

**4.0 Stack Height Requirements**

Minimum stack heights for new sources of sulfur dioxide will be determined by the Department on an individual basis. Such stack height requirements will be based on considerations such as, but not limited to, existing ambient levels of sulfur dioxide, local sources, atmospheric dispersion calculations, land use, and population density. The provisions of 7 **DE Admin. Code** 1127 shall apply to these calculations.

**12 DE Reg. 347 (09/01/08)**

**28 DE Reg. 591 (02/01/25)**