



Mary A. Gade, Director
217/782-2113

2200 Churchill Road, Springfield, IL 62794-9276

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT

PERMITTEE

Laclede Steel Company
Attn: Joseph C. Wesselman
#5 Cut Street
Alton, Illinois 62002

Application No.: 93070030
Applicant's Designation: FESOP
Subject: Sulfur Dioxide Emission Sources
Date Issued: November 18, 1993
Location: #5 Cut Street, Alton

I.D. No.: 119010AAE
Date Received: July 12, 1993
Expiration Date: November 16, 1998

Permit is hereby granted to the above-designated Permittee to OPERATE emission source(s) and/or air pollution control equipment consisting of sulfur dioxide emission sources as described in the above-referenced application and as listed in Table 1. This Permit is subject to standard conditions attached hereto and the following special condition(s). This permit, including these conditions, is enforceable under State law pursuant to the Environmental Protection Act and under federal law pursuant to the Clean Air Act.

- 1a. i. The emission sources listed in Table 1 other than the #1 and #2 Vogt boilers and the rod mill reheat furnace shall only burn distillate fuel which has sulfur dioxide emissions less than or equal to 0.3 lb/(mmBtu-hr) or natural gas.
 - ii. The Permittee shall not accept shipments of distillate fuel with sulfur dioxide emissions greater than 0.3 lb/(mmBtu-hr) at any time.
 - iii. Sulfur dioxide emissions from burning distillate fuel shall not exceed 0.3 lbs/mmBtu based on fuel composition. Fuel composition shall be converted to sulfur dioxide emissions by using the formula: $\text{lbs/mmBtu} = 20,000 \times (\text{weight \% sulfur}) \div (\text{gross heating value of fuel in Btu/lb})$.
- b. The rod mill reheat furnace and the #1 and #2 Vogt boilers shall be fired on natural gas only.
2. The Agency shall be allowed to sample all fuels at the above location.
- 3a. The Permittee shall maintain records of the following items to demonstrate to the Agency compliance with the limit in Condition 1:
 - i. Records of the following data for each shipment of distillate fuel received at this source. These records shall be retained for at least three years after a shipment of fuel is burned.

- A. The amount of the shipment.
 - B. Sulfur and heat content based on ASTM D129-64, ASTM D1552-83 or ASTM D4057-81 methods for analysis of sulfur content (in weight percent) and ASTM D240-76 method to determine heat content (in mmBtu per lb).
 - C. The sulfur dioxide emissions which would result from the burning of the shipment, in lbs SO₂/mmBtu.
- ii. Records of the amount of distillate fuel, sulfur content (in weight percent) of distillate fuel, heat content (in mmBtu/lb) of distillate fuel and sulfur dioxide emission (in lbs SO₂/mmBtu) burned in each emission unit on an hourly basis. These records shall be retained for at least three years.
- b. These records shall be available at a readily accessible location at the plant for inspection and copying by the Agency.
4. If there is an exceedance of the requirements of condition 1a (as determined by the records required by Condition 3) or any violation of the requirements of Condition 1b, the Permittee shall submit a quarterly report to the Agency's Regional Office in Collinsville, Illinois within 30 days after the end of the quarter. The report shall include the SO₂ emissions on an hourly basis in lb/mmBtu and a copy of the fuel composition in accordance with Condition 3a, and describe the exceedance or violation and efforts to reduce emissions and future occurrences.
5. The Annual Emissions Statement submitted to the Agency pursuant to 35 Ill. Adm. Code 201.302 and Part 254, shall report SO₂ emissions from the prior calendar year. If there have been no exceedances during the prior calendar year the Annual Emissions Statement shall include a statement to that effect.

The conditions of this permit supplement the conditions of the existing permits listed in Table 1 for the enumerated sources. These conditions are necessary to assure that the emission sources, both alone and in conjunction with other equipment operated by the Permittee, do not cause or contribute to a violation of the SO₂ air quality standard. To the extent that the above conditions are more stringent than conditions of the existing permits, the conditions of existing permits are superseded.

If you have any questions on this, please call Mangu Patel at 217/782-2113.

Donald E. Sutton

Donald E. Sutton, P.E.
Manager, Permit Section
Division of Air Pollution Control

DES:MJP:CP:lat/sp/322Y,1-2

cc: Region 3
USEPA

TABLE 1

<u>Permit Number</u>	<u>Emission Source</u>
72090065	22 inch mill reheat furnace
72090067	Pipe mill reheat furnace
72090068	Storeroom boiler
72090072	Vogt Boiler #2
72090074	14 inch billet reheat furnace
72090075	Rod mill reheat furnace
72090076	8 inch mill reheat furnaces
72090077	Blooming Mill Soaking Pits #1 - 11
72090079	Vogt Boiler #1

DES:DH:CP:lat/sp/322Y,3