

**10 CSR 10-6.120 Restriction of Emissions of Lead From Specific Lead Smelter-Refinery Installations**

(1) Applicability.

(A) This rule shall apply to existing installations in Missouri engaged in specific smelting and refining for the production of lead.

(B) Operation and Maintenance of Lead Emissions Control Equipment and Procedures. The owner or operator of any specific lead smelter shall operate and maintain all lead emissions control equipment and perform all procedures as required by this rule.

(2) Definitions. Definitions of certain terms specified in this rule, other than those specified in this rule section, may be found in 10 CSR 10-6.020.

(3) General Provisions.

(A) Methods of Measurement of Lead Emissions.

1. The method of determining the concentration of visible emissions from stack sources shall be as specified in 10 CSR 10-6.030(9).

2. The method of measuring lead in stack gases shall be the sampling method as specified in 10 CSR 10-6.030(12).

3. The method of quantifying the determination of compliance with the emission limitations from stacks in this rule shall be as follows:

A. Three (3)-stack samplings shall be planned to be conducted for any one (1) stack within a twenty-four (24)-hour period in accordance with paragraph (1)(C)2. If this cannot be done due to weather, operating or other preventative conditions that develop during the twenty-four (24)-hour period, then the remaining samplings may be conducted in a reasonable time determined by the director following the twenty-four (24)-hour period;

B. Each stack sample shall have a sampling time of at least one (1) hour;

C. The process(es) producing the emissions to that stack being tested shall be operating at a minimum of ninety percent (90%) of capacity of the process(es) for the full duration of the samplings; and

D. The emission rate to be used for compliance determination shall be quantified by using the following formula:

$$E_c = T \text{ avg lbs per hour} \times 24 \text{ hours} = \text{lbs per 24 hours}$$

Where:

$E_c$  = 24-hour emission rate extrapolated from stack sampling results used for compliance determination; and

$T \text{ avg}$  = Summation of hourly emission rates of three (3) stack sampling results, divided by three (3) for the average hourly rate.

4. The method of measuring lead in the ambient atmosphere shall be the reference method as specified in 10 CSR 10-6.040(4)(G).

(B) Operational Malfunction.

1. The owner or operator shall maintain a file which identifies the date and time of any significant malfunction of plant process operations or of emission control equipment which results in increased lead emissions. The file also shall contain a description of any corrective action taken, including the date and time. 10 CSR 10-6.050 Start-Up, Shutdown and Malfunction Conditions shall apply.

2. All of these files relating to operational malfunction shall be retained for a minimum of two (2) years and, upon request, shall be made available to the director.

(C) Provisions Pertaining to Limitations of Lead Emissions from Specific Installations.

1. Doe Run primary lead smelter-refinery in Herculaneum, Missouri. This installation shall limit lead emissions into the atmosphere to the allowable amount as shown in Table I.

**Table I**

<b>Stack Name</b>	<b>Emissions Limitation</b>
	<b>(lbs per 24 hours)</b>
Main Stack	794.0
Number 7 & 9 Baghouse Stack	56.6
Number 8 Baghouse Stack	8.2

2. Doe Run Resource Recycling Division in Boss, Missouri. The following applies to Doe Run's 1998 and ongoing lead producing operations at this installation.

A. Lead emissions from stacks. This installation shall limit lead emissions into the atmosphere to the allowable amount as shown in Table II.

**Table II**

<b>Stack Name</b>	<b>Emissions Limitation</b>
	<b>(lbs per 24 hours)</b>
Main Stack	540.0

B. Fugitive lead emissions from lead production processes. This installation shall limit production from processes that emit lead to the ambient air to the allowable amount as shown in Table III.

**Table III**

<b>Process Name</b>	<b>Throughput</b>
	<b>(tons per day)</b>
Blast Furnace	786 Charge
Reverb Furnace	500 Charge
Rotary Melt	300 Charge
Refinery	648 Lead Cast

(D) Provisions Pertaining to Limitations of Lead Emissions From Other Than Stacks at All Installations.

1. The owner or operator shall control fugitive emissions of lead from all process and area sources at an installation by measures described in a work practice manual identified in paragraph (3)(D)2. It shall be a violation of this rule to fail to adhere to the requirements of these work practices.

2. Work practice manual.

A. The owner or operator shall prepare, submit for approval and then implement a process and area-specific work practice manual that will apply to locations of fugitive lead emissions at the installation.

B. The manual shall be the method of determining compliance with the provisions of this section. Failure to adhere to the work practices in the manual shall be a violation of this rule.

C. Any change to the manual proposed by the owner or operator following the initial approval shall be requested in writing to the director. Any proposed change shall demonstrate that the change in the work practice will not lessen the effectiveness of the fugitive emission reductions for the work practice involved. Written approval by the director is required before any change becomes effective in the manual.

D. If the director determines a change in the work practice manual is necessary, the director will notify the owner or operator of that installation. The owner or operator shall revise the manual to reflect these changes and submit the revised manual within thirty (30) days of receipt of notification. These changes shall become effective following written approval of the revised manual by the director.

(4) Reporting and Record Keeping.

(A) The operator shall keep records and files generated by the work practice manual's implementation.

(B) The work practice manual shall contain the requirement that records of inspections made by the operator of fugitive emissions control equipment such as hoods, air ducts and exhaust fans be maintained by the operator.

(C) The Doe Run Resource Recycling Division, Boss, Missouri operator shall keep records of daily process throughput corresponding with the processes in Table III in subparagraph (3)(C)2.B. of this rule. These records shall be maintained on-site for at least three (3) years and made available upon the request of the director.

(D) Records shall be kept for a minimum of two (2) years at the installation and shall be made available upon request of the director for purposes of determining compliance.

(5) Test Methods. (*Not applicable*)





