

BEFORE THE AIR CONSERVATION COMMISSION
STATE OF MISSOURI

DOE RUN COMPANY RESOURCE)
RECOVERY FACILITY)
CONSENT ORDER) NO. _____
RESPECTING LEAD EMISSIONS)

STIPULATION AND ORDER

COME NOW The Doe Run Company (Doe Run) and the Missouri Department of Natural Resources (MDNR) and stipulate as follows:

1. This Consent Order and Stipulation modifies and supersedes the previous Stipulation executed by Doe Run and the MDNR and entered by the Missouri Air Conservation Commission (Commission) on March 31, 1994.

2. In accordance with the federal Clean Air Act, 42 U.S.C. § 7401, et seq., as amended, the State of Missouri submitted a State Implementation Plan for the attainment and maintenance of the National Ambient Air Quality Standard for Lead in the air quality control region located in the vicinity of Doe Run's Resource Recovery Facility which smelter is located near Bixby, Iron County, Missouri (the facility).

3. Pursuant to the federal Clean Air Law, 42 U.S.C. § 7401, et seq., as amended, the State of Missouri is in the process of revising said State Implementation Plan, which revision the state will submit to the EPA for its review and approval.

4. The parties, by their signatures hereto, acknowledge that they have read and understand the terms of this Stipulation and Order and agree to be bound thereby. The parties further acknowledge and agree that the terms of the Order may be enforced by suit

for injunctive relief and/or civil penalties pursuant to § 643.151, RSMo, as amended. The parties further agree and acknowledge that this Stipulation and Order is binding upon the parties hereto, their successors, assigns, agents, and employees.

5. Doe Run's Resource Recycling Facility consists of a lead smelter that may operate on either a primary or secondary feed stock and a resource recycling operation.

6. Since 1990, the air monitoring demonstrates that the facility meets the National Ambient Air Quality Standard for lead as specified in 40 C.F.R. 50.12.

ORDER

This matter comes before the Commission on the stipulation of the parties and after public comment and a public hearing, the Commission having jurisdiction over the subject matter and the parties hereto pursuant to § 643.050, RSMo, as amended, being fully advised in the premises:

IT IS HEREBY ORDERED that, in order to demonstrate attainment and maintenance of the National Ambient Air Quality Standard for lead as specified in 40 C.F.R. 50.12, Doe Run shall:

A. In the event the air quality data for any calendar quarter following October 3, 1995 (the attainment date for the National Ambient Air Quality Standard for lead), exceeds said National Ambient Air Quality Standard for lead as specified in 40 C.F.R. § 50.12, the MDNR will notify Doe Run. Doe Run shall then implement the following contingency control measures sixty (60) days from the date of its receipt of MDNR's

notification:

- (1.) Pave the remainder of the employee parking area northwest of the Doe Run administrative building.
- (2.) Increase the frequency of facility roadway sweeping and washdown to two (2) shifts daily.
- (3.) Replace bags in the main baghouse compartment number 1 with Teflon coated bags to improve ventilation capacity to the furnace process.
- (4.) If the National Ambient Air Quality Standard for lead has not been achieved within the first full quarter following installation of Teflon-coated bags in main baghouse compartment number 1, Doe Run shall replace the main baghouse compartment number 8 bags with Teflon-coated bags during the next full quarter.

(B) Other requirements:

- (1.) Doe Run shall maintain the fence or use some other physical barrier to enclose the Doe Run property within the 1.5 ug/m^3 isopleth for its current resource recovery operations.
- (2.) Doe Run shall comply with the provisions at 10 CSR 10-6.120(2)(C), as amended.

The schedule set forth above will not apply in the event Doe Run does not

complete the emission control projects during the time periods specified above as the result of an Act of God , war, strike, riot or other catastrophe. The completion dates will be extended for the period of time corresponding to the time said circumstances are occurring. Doe Run shall have the burden of proof to establish that it is entitled to utilize the provisions of this paragraph.

THE DOE RUN COMPANY

By: *Greg Z. Pasatt*

Date: 3/1/00

Title: *Vice President Secondary Smelting*

MISSOURI DEPARTMENT OF NATURAL RESOURCES

By: *[Signature]*

Date: 5-11-00

Title: *[Signature]*

ENTERED:

MISSOURI AIR CONSERVATION COMMISSION

David C. Zimmerman
Chair

Michael R. [Signature]
Vice Chair

Date: 4-27-00

EPA Rulemakings

CFR: 40 C.F.R. 52.1320(d)

FRM: 65 FR 62295 (10/18/00)

PRM: 65 FR 62319 (10/18/00)

State Submission: 5/17/00

State Final: 5/11/00

APDB File: MO-148

Description: This revision supercedes the previous Order of September 29, 1994. It sets forth new contingency measures as a result of the redesignation of the area to attainment.

CFR: 40 C.F.R. 52.1320(c)(89)(i)(C)

FRM: 60 FR 39851 (8/4/95)

PRM: 60 FR 39910 (8/4/95)

State Submission: 11/23/94

State Proposal: N/A

State Final: 9/29/94

APDB File: MO-88

Description: The EPA approved a Consent Order in which Doe Run Buick agrees to undertake and complete revised Contingency Control Measures which replace C-1, C-2, and C-3 Contingency Control Measures in the previous Order dated July 2, 1993.

CFR: 40 C.F.R. 52.1320(c)(89)(i)(B)

FRM: 60 FR 39851 (8/4/95)

PRM: 60 FR 39910 (8/4/95)

State Submission: 7/2/93

State Proposal: N/A

State Final: 7/2/93

APDB File: MO-88

Description: The EPA approved a Consent Order in which Doe Run Buick agrees to undertake and complete specific emissions control projects before the primary smelting facility resumes operations.

Difference Between the State and EPA-Approved Regulation

None.

40 CFR 52.1320 (d) (10) Doe Run Buick Lead
Smelter, Boss, MO 8/4/95 60 FR 39851
BEFORE

THE AIR CONSERVATION COMMISSION
STATE OF MISSOURI

7/2/93
STATE
EFFECTIVE

In the Matter of)
The Doe Run Company)
(Buick Lead Smelter))
Consent order)
respecting lead emissions)

STIPULATION

Come now the Doe Run Company (hereafter Doe Run) and the Missouri Department of Natural Resources (hereafter DNR), and covenant and agree as follows:

1. The State of Missouri, through DNR and the Missouri Air Conservation Commission and Doe Run are desirous of submitting to the U. S. Environmental Protection Agency (hereafter EPA) a State Implementation Plan (hereafter SIP) for the attainment and maintenance of the national ambient air quality standard for lead, and having same approved by EPA pursuant to the Clean Air Act as amended in 1990.

2. To this end, DNR and the Missouri Air Conservation Commission are preparing a SIP to be submitted to EPA, to demonstrate attainment and maintenance of the national ambient air quality standard for lead. As part of the SIP, certain emission reductions from Doe Run's Buick facility in Iron County, Missouri are to be undertaken. DNR and Doe Run agree that the Missouri Air Conservation Commission may enter the order set forth below, to be binding on the parties, providing for certain emission control projects which Doe Run agrees to undertake and complete on the schedule set forth in the order. The parties, by their signatures hereto, acknowledge that they have read and understand the terms of this Stipulation and the order of the Commission, and agree to be bound thereby. The parties further acknowledge and agree that the terms of the below order may be enforced by suit for injunction and penalties pursuant to Section 643.151, RSMo 1986.

62-2219 8-18-96
61-FR 37340

ORDER

This matter coming before the Commission on the Stipulation of the parties and after public hearing, the Commission having jurisdiction over the subject matter and the parties, and being fully advised in the premises:

IT IS ORDERED that The Doe Run Company undertake and complete, at its Buick smelter facility, the following emission control projects, on the schedule set forth conditioned as follows:

WHEREAS, Doe Run's Buick facility consists of a primary lead smelter, and a secondary lead smelter and resource recycling operation.

The primary smelter operation, including and especially the sinter plant, processing lead concentrate as feed material, has operated intermittently since 1986, and is currently on standby status.

The primary smelter when processing lead concentrate as feed material and based on name-plate capacity and current control equipment, has failed to attain and maintain the ambient air quality standard for lead when in full operation.

The secondary smelter/resource recycling operation has, since startup in 1990, demonstrated attainment and maintenance of the ambient air quality standard for lead. This overall operation of the secondary smelter includes full use of either or both of the two blast furnaces within the operating restriction in 10 CSR 10-6.120, and the full use of refinery operation of the primary smelter facilities.

NOW THEREFORE, it is agreed that Doe Run will not operate its Buick primary smelter to process lead concentrate and produce primary lead unless and until Doe Run has completed the following emission control projects:

Projects required as SIP control measures.

1. Replace #2 wet scrubber with new (EI No. 2x) sinter prep baghouse.
2. Install ventilation in sinter plant preparation plant (to capture EI No. 14a fugitive emissions) and vent to No. 2x baghouse.
3. Replace #1, 6, 7, 8 and 9 wet scrubbers with new (EI No. 14x) sinter plant baghouse.
4. Install ventilation in sinter plant (to capture EI Nos. 14b and 14c fugitive emissions) and vent to No. 14x baghouse.
5. Install covers on all kettles in the dross plant and refinery and ventilate to existing main baghouse.
6. Develop formal written guidelines for construction projects to control fugitive emissions.
7. Chemically stabilize or pave the haul road to steel scrap area. Should Doe Run opt for stabilization, stabilization to occur at a minimum of once every 6 months (eg. once during the periods Jul - Dec and Jan - Jun).
8. Chemically stabilize concentrate storage piles once every 6 months (eg. once during the periods Jul - Dec and Jan - Jun).

It is also therefore agreed that Doe Run will complete the following emission control related projects should there be determination of need:

Projects required as Contingency control measures (C).

The undertaking and completion of any of the following projects is contingent upon ambient air quality data at the Buick smelter facility after completion of the emission control projects 1. through 8. of this order. The criteria for determining the need to undertake these projects is given in the Missouri SIP for Lead, 1980 and as revised by the Commission through 1993, Section VII, B. 2. J, 4.b), Contingency Measures.

- C-1. Reduce the size of outside stockpiles to working minimums.
- C-2. Cover all remaining stockpiles with plastic, canvas or other dust-impervious material.
- C-3. Run water and sweeper truck inside plant grounds on two shifts, in lieu of one shift Monday to Friday (except when icy conditions exist).

If it is determined by DNR that any of these contingency projects are needed for the attainment of the national ambient air quality standard for lead, implementation of contingency measures shall begin within thirty (30) days from receipt of DNR's notice of need.

Other Requirements (OR)

OR-1. Doe Run shall give notice of intent to operate the primary smelter to process lead concentrate to produce primary lead at this installation at least sixty (60) days prior to the start of implementation of control measures required in this order.

OR-2. Leased Property in smelter vicinity.

The owner or operator of the Buick primary lead smelter shall fulfill the requirements specifically relating to leased property in section VII of the Lead SIP, 1993 Revision, at B. 2, N, 1.

OR-3. Restriction of Public Access to smelter property.

Doe Run shall complete the requirements specifically relating to installation of physical barriers to restrict public access to smelter property in section VII of the Lead SIP, 1993 Revision, at B. 2, N, 2.

OR-4. Testing.

- a) Doe Run shall stack test at Emission Inventory point numbers 2x and 14x (the replacement baghouses for scrubber numbers 1, 2, 6, 7, 8, and 9) for evaluation with the emission rates in the Post-'92 EI in Table VII B.-5 (Lead SIP, 1993 Revision).
- b) Stack testing shall be in accordance with 10 CSR 10-6.030(12).
- c) This stack testing shall be undertaken within sixty (60) days following the date of resumption of operation of the primary smelter.

It is acknowledged and agreed that the schedule set forth above shall not apply in the event Doe Run is prevented from completing these emission control projects during the time periods as stated as the result of strikes, Acts of God, and other circumstances beyond its control, and the completion dates will be extended for periods of time corresponding to the time said circumstances are in effect. The burden shall be on Doe Run to establish to the Commission the circumstances and amount of time necessary for a revised schedule.

THE DOE RUN COMPANY

by Walter W. [Signature] / General Counsel June 24, 1993
[Signature] / Director of Env. Affairs (DATE)

MISSOURI DEPARTMENT OF NATURAL RESOURCES

by David A. [Signature] 7-7-93
Director (DATE)

entered: _____

MISSOURI AIR CONSERVATION COMMISSION

[Signature] Chairman
[Signature] Vice-Chairman

[Signature] Member

Harriet Beard Member

[Signature] Member

[Signature] Member

_____ Member

BEFORE THE AIR CONSERVATION COMMISSION
STATE OF MISSOURI

In the Matter of)
The Doe Run Company (Buick Lead)
Smelter) Consent Order)
respecting lead emissions)

STIPULATION

COME NOW the Doe Run Company (hereafter Doe Run) and the Missouri Department of Natural Resources (hereafter DNR), and covenant and agree as follows:

1. This Stipulation modifies and supersedes the previous Stipulation duly executed by the parties and entered by the Missouri Air Conservation Commission.

2. The State of Missouri, through DNR and the Missouri Air Conservation Commission and Doe Run Submitted to the U. S. Environmental Protection Agency (hereafter EPA) a State Implementation Plan (hereafter SIP) for the attainment and maintenance of the national ambient air quality standard for lead in the vicinity of the Buick smelter, and are desirous of having same approved by EPA pursuant to the Clean Air Act as amended in 1990 (hereafter CAA).

3. EPA, in reviewing the SIP as submitted for their approval, has advised DNR and Doe Run that the three (3) Contingency Control Measures that are listed as C-1, C-2, and C-3 in the previous Order dated July 2, 1993, do not provide sufficient emissions reduction to satisfy the amended Part D requirements in the CAA.

4. To this end Doe Run has prepared and DNR herein sets forth a new set of four (4) Contingency Control Measures to replace the set listed in the previous Order.

9/29/94
state
effective

40 CFR 52.1320 (d) (11) Doe Run Buick Lead
Smelter, Iron County, MO 8/4/95 60 FR 39851

5. In addition, DNR and Doe Run are desirous of including in this Order a second set of Contingency Control Measures that would apply to Doe Run's current secondary lead smelting operation at this facility. These measures would be applicable during the period between the date of this order and operation of the primary lead smelting operation.

ORDER

This matter coming before the Commission on the Stipulation of the parties and after public hearing, the Commission having jurisdiction over the subject matter and the parties, and being fully advised in the premises:

IT IS ORDERED that The Doe Run Company undertake and complete, at its Buick smelter facility, the following Contingency Control Measures, which replace the Contingency Control Measures for this facility that are listed as C-1, C-2, and C-3 in the previous order dated July 2, 1993.

These measures are to be implemented under the following conditions.

The undertaking and completion of any of the following projects is contingent upon not attaining the lead standard in the smelter vicinity after completion of the emission control projects 1 through 8 in the previous Order.

The criteria for determining the need of undertaking these projects is given in the Missouri SIP for Lead, 1980 and as revised by the Commission through 1993, Section VII. B, 2. J, 4. Contingency Measures.

1. Install Bullion Transfer Pot Cooling/Rotation Procedure.

An operational procedure known as pot rotation will be implemented. The operators will be trained in the procedure and the tapping ventilation ductwork and hooding will be enlarged and refurbished.

2. Enclose bypassed sinter feed.

Enclose sinter feed bins and provide water spray nozzles where fugitive emissions would likely occur. An installation schedule for the location of the water spray nozzles shall have the agreement of Doe Run, DNR, and EPA.

The installation schedule shall be developed and agreed upon within sixty (60) days of notification of an air quality violation. If an agreement has not been reached within sixty (60) days of such notification, DNR shall develop an installation schedule. The owner/operator will implement the schedule established by DNR.

3. Refurbish sinter plant building.

Provide wall panel enclosures on the east side of the sinter plant building and at the top floor of the furnace prep area.

4. Install conveyor for main baghouse dust reprocessing.

A Redler conveyor will be installed for use in returning the collected baghouse materials to the new bin (FS 2041) in the sinter preparation area, and then be metered proportionately onto the sinter charge.

IT IS ALSO ORDERED that the Doe Run Company undertake and complete, at its Buick smelter facility, the following Contingency Control Measures.

These measures are to be implemented only under the following conditions.

The undertaking and completion of any of the following projects is contingent upon a violation of the lead standard resulting from the production of secondary lead at the facility at a time when the primary lead smelter is not in operation producing primary lead.

The criterion for determining the need of undertaking these projects is given in the Missouri SIP for Lead, 1980 and as revised by the Commission through 1993, Section VII, B, W, J, 4 Contingency Measures.

S-1 Install recirculating water spray system to facilitate dust suppression at sources of fugitive emissions.

An installation schedule, location, and frequency of operation for the water spray system shall be developed and agreed upon within sixty (60) days of notification of an air quality violation. If an agreement has not been reached within sixty (60) days of such notification DNR shall develop an installation schedule. The owner/operator will implement the schedule established by DNR.

S-2 Purchase additional water spray truck and increase frequency of truck watering and sweeping to two shifts daily.

A current bid for the truck will be kept on hand. The order will be placed within sixty (60) days of being notified of the need to implement.

If it is determined by DNR that any of these contingency projects are needed for the attainment of the national ambient air quality standard for lead, implementation of contingency measures shall begin within sixty (60) days from receipt of DNR's notice of need.

It is acknowledged and agreed that the implementation set forth above shall not apply in the event Doe Run is prevented from implementing these emission control projects during the time period as stated as the result of strikes, acts of God, or other circumstances beyond its control, and the implementation dates will be extended for a period of time corresponding to the time said circumstances and amount of time necessary for a revised schedule.

THE DOE RUN COMPANY (for the Buick Lead Smelter)

BY: [Signature] K. R. BUCKLE / DATE: 8/30/94
[Signature] 8/29/94

MISSOURI DEPARTMENT OF NATURAL RESOURCES

BY: [Signature] DATE: NOV 23 1994
David A. Shorr, Director

MISSOURI AIR CONSERVATION COMMISSION MEMBERS

[Signature]
Chairman

[Signature]
Vice-Chairman

[Signature]
Member

[Signature]
Member

Member

Member

Member

ENTERED THIS 29 DAY OF September, 1994 as an official
record of the Missouri Air Conservation Commission.

EPA Rulemakings

CFR: 40 C.F.R. 52.1320 (c) (89) (i) (C)

FRM: 60 FR 39851 (8/4/95)

PRM: 60 FR 39910 (8/4/95)

State Submission: 11/23/94

State Proposal: N/A

State Final: 9/29/94

APDB File: MO-88

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Description: The EPA approved a consent order in which Doe Run Buick agrees to undertake and complete specific emissions control projects before the primary smelting facility resumes operations.

Difference Between the State and EPA-Approved Regulation

None.