

**Lead (Pb) Contingency Measure Implementation Plan for Troy,  
Alabama**

**Prepared By:**

**The Alabama Department of Environmental Management**

**November 2024**

# **TABLE OF CONTENTS**

## **I. INTRODUCTION**

- Background
- Recent Exceedances
- Maintenance Plan and Contingency Measures

## **II CONTINGENCY MEASURES**

- Background
- Occurrence, Exceedances and Contingency Measures

## **III PERMIT REVISIONS**

## **IV MONITORING DATA ANALYSIS**

## **V CONCLUSION**

### **APPENDIX A – Consent Order**

### **APPENDIX B – Permit for Emergency Generator**

### **APPENDIX C – Permit for Blast Furnace Canopy Hoods and Building Ventilation (Stacks 11 & 17)**

## **Section I – Introduction**

### **Background**

On October 5, 1978, EPA promulgated primary and secondary NAAQS for lead (Pb). Both primary and secondary standards were set at a level of 1.5  $\mu\text{g}/\text{m}^3$ . In 1995, the entire state of Alabama was designated as attainment for the 1978 standard.

On October 15, 2008, EPA revised both the level and the form of the NAAQS, lowering the standard from 1.5  $\mu\text{g}/\text{m}^3$  to 0.15  $\mu\text{g}/\text{m}^3$  and changing the form from a 3-month block average to a maximum rolling 3-month average over a three-year period (73 FR 67039). On October 1, 2009, the state of Alabama submitted designation recommendations. The state recommended that only the portion of Pike County within a radius of 0.8 miles from the Sanders Lead Company should be designated nonattainment for the Pb NAAQS. All other areas were recommended as unclassifiable/attainment.

In a letter dated June 14, 2010, EPA agreed with the state's recommendations for the nonattainment area, but they deferred making designation decisions for all other areas in Alabama. Designations were published on November 22, 2010, (75 FR 71033), with an effective date of December 31, 2010. EPA agreed with the state's recommendations for all other areas of Alabama and designated all other areas as unclassifiable/attainment.

Upon meeting the standard after the required three-year monitoring period, Alabama submitted a request on January 3, 2018, to redesignate the Troy area to attainment. The area was formally redesignated to attainment on June 20, 2018 (83 FR 28543).

On November 11, 2019, the electrical supply provided by the City of Troy, Alabama, to the Sanders Lead facility was interrupted for approximately two hours due to a blown fuse inside the city's power supply system. This resulted in uncontrolled emissions escaping the facility while the doors were left open to allow for site personnel to evacuate the smelting area. Subsequently, elevated ambient lead emissions were measured at the lead ambient air monitor. These elevated ambient lead levels led to the October 2019-December 2019 and November 2019-January 2020 three-month rolling averages exceeding the 2008 lead NAAQS of 0.15  $\mu\text{g}/\text{m}^3$ .

In an effort to prevent a recurrence of this event, the City of Troy agreed to reconfigure its electrical system to provide the Sanders Lead facility with additional substations, which would restore power to the facility within 5 seconds of any future power outage such as the one that occurred on November 11, 2019. This reconfiguration was also included as a permit condition in Sanders Lead's revised Title V permit dated March 11, 2021. ADEM submitted a

letter along with the relevant supporting documents to EPA dated March 15, 2021, to serve as evidence of the mitigation actions that were required of Sanders Lead to address the elevated lead levels and prevent a future reoccurrence of the event. The Sanders Lead facility was notified through a letter from the City of Troy dated May 17, 2021, that the work to provide the facility with a redundant power source had been completed.

**Recent Exceedances**

The following table contains the design values for the partial Pike County, AL Lead Area from January 2022-March 2024. The bold numbers represent the design values, and the highlighted numbers represent the three-month rolling average exceedances.

Site Location City	3-month period	Three-month rolling average (ug/m3)		
		2022	2023	2024
01--109-003 Sanders Lead facility, Troy	Nov-Jan	0.07	0.06	<b>0.14</b>
	Dec-Feb	0.09	0.09	0.06
	Jan-Mar	0.19	0.10	0.05
	Feb-Apr	<b>0.22</b>	0.10	
	Mar-May	0.19	0.09	
	Apr-Jun	0.08	0.07	
	May-Jul	0.05	0.07	
	Jun-Aug	0.05	0.10	
	Jul-Sept	0.05	0.11	
	Aug-Oct	0.04	0.10	
	Sept-Nov	0.03	0.13	
	Oct-Dec	0.04	<b>0.15</b>	

**Table 1**

**Maintenance Plan & Contingency Measures**

Section 175A of the Clean Air Act requires a maintenance plan to become a part of the SIP for areas redesignated to attainment and provide for maintenance of the air quality in the affected area for at least 10 years after redesignation to attainment. The general approach used for the maintenance plan to demonstrate that attainment of the lead standard will continue to be maintained was based upon restricting the future lead emissions to a level that is representative of attainment of the standard. If these future emissions are no greater than the actual emissions during a year in which attainment of the standard was monitored, then it can be assumed that attainment of the standard will also be achieved in future years.

Section 175A(d) of the Clean Air Act Amendments (CAAA) requires the inclusion of contingency provisions in the maintenance plan that would be implemented by the state to correct any future violation(s) of the NAAQS in areas that had been redesignated to attainment. Each plan must contain such contingency provisions to assure that the state will promptly correct any violation of the standard which occurs after the redesignation of the area to attainment. Such provisions shall include a requirement that the state will implement all measures, with respect to the control of the air pollutant concerned, which were contained in the State Implementation Plan for the area before redesignation of the area to attainment.

In accordance with the requirements of the CAAA, Alabama committed to adopt within 18 months of a violation of the lead standard, one or more control measure(s) (contingency measures) to re-attain the standard. The plan stated that the state of Alabama will use actual ambient monitoring data as the indicator or trigger to determine when these contingency measures would be implemented. In accordance with 40 CFR 58, ambient lead monitoring data that indicates a future violation of the lead NAAQS will begin the process to implement the contingency measures. Also, in the event that the 3-month rolling average of lead concentrations at the monitor records a violation of 0.16µg/m<sup>3</sup> or higher, the state will evaluate existing control measures to determine whether any further emission reduction measures should be implemented.

As shown in Table 1 above, the Sanders lead monitor violated the 2008 lead NAAQS during the following three-month rolling averages: January 2022-March 2022, February 2022-April 2022, and March 2022-May 2022. The contingency plan requirement to adopt control measures within 18 months of a violation of the 2015 lead standard was triggered.

## **Section II – Contingency Measures**

### **Background**

Per 40 CFR part 63 Subpart X “Lead MACT”, Sanders Lead must prepare and follow a Fugitive Standard Operating Procedures manual that describes in detail the measures that will be put in place and implemented to control the fugitive dust emissions from plant roadways, plant buildings, accidental releases, battery storage area, equipment maintenance, material storage areas, and material handling areas.

After the partial Pike County area was initially designated as nonattainment on November 22, 2010, the Sanders Lead Company added new emission controls to achieve emission reductions that are permanent and enforceable. These controls are listed below:

- Each of the volume sources and two of the haul roads, which were sources of fugitive emissions, were enclosed and the emissions routed to a new stack. The furnace and refining building operations were enclosed, and canopy hoods were installed over each blast furnace. These lead emissions were then routed through a cartridge-style baghouse and HEPA filter (new Stack 11) and limited to 0.067 lb/hr and 0.00043 gr/dscf.
- The battery breaker/shredder operations building was enclosed with lead emissions routed through a cartridge-style baghouse and HEPA filter (new Stack 12) and limited to 0.033 lb/hr and 0.00043 gr/dscf.
- Sanders relocated the industrial battery decasing operation to the inside of the existing raw material storage building. This building was enclosed with lead emissions routed through a cartridge-style baghouse and HEPA filter (new Stack 13) and 0.022 lb/hr and 0.00043 gr/dscf.
- Sanders installed a building connection tunnel for the transport of materials from the shredder (pre-construction source A) to the raw materials storage building. Half of the emissions from this tunnel were routed to new Stack 12 and half to new Stack 13.
- The alloying kettles and the alloying kettle flue system lead emissions, which went to both Stack 4 and Stack 5, are now controlled by a cartridge-style baghouse and HEPA filter (new Stack 14) and limited to 0.027 lb/hr and 0.00043 gr/dscf.

Plant or haul roads and grounds are maintained in the following manner so that dust will not become airborne:

1. By the application of water any time the surface of the road is sufficiently dry to allow the creation of dust emissions by the act of wind or vehicular traffic;
2. By reducing the speed of vehicular traffic to a point below that at which dust emissions are created;
3. By paving;
4. By the application of binders to the road surface at any time the road surface is found to allow the creation of dust emissions.

The addition of the new controls combined with existing programs, such as, the New Source Review (NSR) programs, addressed in ADEM Admin. Code r. 335-3-14-.05, and provisions for the Prevention of Significant Deterioration (PSD) permitting program, addressed in ADEM Admin. Code r. 335-3-14-.04, resulted in the area being redesignated to attainment on June 20, 2018.

In addition, the City of Troy reconfigured its electrical system to provide the Sanders Lead facility with additional substations, which would restore power to the facility within 5 seconds of any future power outage. This reconfiguration was also included as a permit condition in Sanders Lead's revised Title V permit dated March 11, 2021.

In 2023, Sanders Lead also purchased a small sweeper unit to remove lead-bearing dust in the alley outside of the enclosed slag storage area.

## **Occurrence, Exceedances and Contingency Measures**

### ***Occurrence and Exceedances***

On March 18, 2022, Sanders Lead experienced a loss of power to parts of the facility due to a lightning storm. In a letter dated April 7, 2022, Sanders informed ADEM that a lightning strike disabled the switching system that was installed in May 2021 to supply electricity from multiple substations. The loss of power interrupted the operation of scrubber fans and a building ventilation stack for approximately 1.5 hours. This created an increase in smoke in the plant, which resulted in the mandatory evacuation of plant personnel through roll-up doors. This subsequently led to exceedances of the lead NAAQS for the January 2022-March 2022, February 2022-April 2022, and March 2022-May 2022 monitoring periods.

In addition to the occurrence mentioned, ADEM discovered that two additional exceedances occurred in the same month (March 6, 2022, and March 30, 2022).

### ***Contingency Measures.***

There is a Consent Order (Appendix A) in place that would impose a June 30, 2025, deadline on Sanders Lead to install an emergency generator (Air Permit 210-0005-X036; Appendix B), which will provide electricity to the existing building room air baghouse and HEPA filter (Stack 11) in the event of a future power interruption, and a new baghouse and HEPA filter to control furnace canopy/building air (Stack 17; Air Permit 210-0005-X035; Appendix C), which will work in conjunction with Stack 11. Additionally, Sanders will raise stacks 4, 4a, 10, and 14.

### Section III – Permit Revisions

Air Permits for the emergency generator (Air Permit 210-0005-X036), baghouse and HEPA filter (Air Permit 210-0005-X035) will be included in the Title V permit when the source becomes operational. These permits have been included as appendices B and C. Sanders will have one year from startup to apply to modify the Title V permit.

### Section IV – Monitoring Data Analysis

Table 2 reflects the monitoring data for January 2022 through May 2022. This is the period that was affected by the previously mentioned occurrence (March 18, 2022) and the two other exceedances (March 6, 2022, and March 30, 2022). These dates have also been highlighted in gray. Table 3 shows the three-month rolling averages for the same period with the removal of the occurrence and the two other exceedances. Table 3 depicts examples of anticipated results after the implementation of the previously mentioned contingency measures. The 3-month rolling averages in Table 3 are below the standard.

<b>Date</b>	<b>Lead Value (ug/m3)</b>
January 5, 2022	0.234
January 11, 2022	0.020
January 17, 2022	0.014
January 23, 2022	0.019
January 29, 2022	0.013
February 4, 2022	0.108
February 10, 2022	0.046
February 16, 2022	0.515
February 22, 2022	0.091
February 28, 2022	0.007
March 6, 2022	0.464
March 12, 2022	0.029
March 18, 2022	0.968
March 24, 2022	0.056
March 30, 2022	0.327
April 5, 2022	0.072
April 11, 2022	0.188
April 17, 2022	0.106
April 23, 2022	0.085
April 29, 2022	0.176
May 5, 2022	0.037
May 11, 2022	0.016
May 17, 2022	0.020
May 23, 2022	0.293
May 29, 2022	0.027

**Table 2**



<b>Months</b>	<b>Three-month rolling average (ug/m3)</b>
January-March, 2022	0.10
February-April, 2022	0.12
March-May, 2022	0.09

**Table 3**

## **Section V – Conclusion**

In conclusion, ADEM believes that the above-mentioned contingency measures are sufficient to prevent exceedances of the standard in the future. The monitor violated the 3-month rolling average because of the occurrence and exceedances mentioned. We are confident that after the contingency measures described above are in place, the 3-month rolling average will remain consistently below the standard. As seen in Table 3, if the data for the incidences mentioned is removed, the 3-month rolling averages are all below the standard.

**Appendix A**  
**Consent Order**

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
P O Box 301463 (Zip 36130-1463)  
1400 Coliseum Boulevard (Zip 36110-2400)  
Montgomery, Alabama 36130-1463  
(334) 271-7700

**PROPOSED CONSENT ORDER**

**Account Code: 350**

**Pike County**

Pursuant to the provisions of the Alabama Environmental Management Act, Ala. Code §§22-22A-1 to 22-22A-17, *as amended*, the Alabama Department of Environmental Management is proposing to issue a Consent Order to **Sanders Lead Company, Inc.**, the owner/operator of a secondary lead smelting facility in **Troy, Pike County, Alabama**.

The violation pertains to permit limit exceedances noted during stack testing conducted November 2 – 6, 2023.

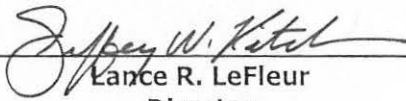
The Department is proposing a civil penalty in the amount of **\$200,000**. The Order, if issued, would require Sanders Lead Company, Inc. to pay the Alabama Department of Environmental Management within 45 days of the effective date, and comply with the terms, limitations, and conditions of the Permit and the Department's regulations immediately.

Interested persons may submit written comments, including request for a hearing, within 30 days of the publication date of this notice, to:

**Alabama Department of Environmental Management**  
**Attention: Ronald W. Gore**  
**Chief, Air Division**  
**PO Box 301463**  
**Montgomery, Alabama 36110-1463**  
**[airmail@adem.alabama.gov](mailto:airmail@adem.alabama.gov)**

The comment period shall end at the close of business 30 days from the publication date of this notice. A copy of the proposed Order is available on the ADEM web page at <http://adem.alabama.gov/compInfo/adminOrders.cnt>, or may be obtained by written request to the above address. A nominal fee for copying may be charged.

This notice is hereby given this **31st day of July, 2024**, by authorization of the Alabama Department of Environmental Management.

  
**Lance R. LeFleur**  
**Director**

Nondiscrimination Statement: The Department does not discriminate on the basis of race, color, national origin, sex, religion, age or disability in the administration of its programs.

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IN THE MATTER OF: )  
 )  
Sanders Lead Company, Inc. )  
Troy, Pike County, Alabama )  
 )  
ADEM Air Facility ID No. 210-0005 )

CONSENT ORDER NO. 24-109-CAP

PREAMBLE

This Special Order by Consent is made and entered into by the Alabama Department of Environmental Management (“Department” or “ADEM”) and Sanders Lead Company, Inc. (“Permittee”) pursuant to the provisions of the Alabama Environmental Management Act, Ala. Code §§ 22-22A-1 to 22-22A-17, as amended, the Alabama Air Pollution Control Act, Ala. Code §§ 22-28-1 to 22-28-23, as amended, and the regulations promulgated pursuant thereto.

STIPULATIONS

1. Sanders Lead Company, Inc. (“Permittee”) operates a secondary lead smelting facility, ADEM Air Facility ID No. 210-0005 (“Facility”) located in Troy, Pike County, Alabama.
2. The Department is a duly constituted department of the State of Alabama pursuant to Ala. Code §§ 22-22A-1 to 22-22A-17, as amended.
3. Pursuant to Ala. Code § 22-22A-4(n), as amended, the Department is the state air pollution control agency for the purposes of the federal Clean Air Act, 42 U.S.C. 7401 to 7671q, as amended. In addition, the Department is authorized to administer and

enforce the provisions of the Alabama Air Pollution Control Act, Ala. Code §§ 22-28-1 to 22-28-23, *as amended*.

4. The Permittee operates the facility pursuant to the authority of Major Source Operating Permit No. 210-0005 (“Permit”).

5. “Provisos for Blast Furnaces 1 – 4 and Agglomeration Furnace (Stack 15)” Emission Standards Proviso No. 2 of the Permit requires that the Permittee limit emissions from the furnaces, as measured at the outlet of Stack 15, to 0.258 pounds of lead per hour.

6. “Provisos for Blast Furnaces 1 – 4 and Agglomeration Furnace (Stack 15)” Emission Monitoring Proviso No. 5(a)i of the Permit requires that the Permittee must maintain and operate the continuous emissions monitoring system (“CEMS”) installed at the outlet of Stack 15 in accordance with Performance Specification 2 of 40 CFR Part 60, Appendix B. This performance specification requires, in part, that the CEMS must measure emissions with no more than 20% deviation from simultaneous measurements via the reference method test (“relative accuracy”).

7. “Provisos for Slag Treatment Facility (Stack 10)” Emission Standards Proviso No. 2 of the Permit requires that the Permittee limit emissions from the slag treatment operations, as measured at the outlet of Stack 10, to 0.008 pounds of lead per hour.

8. “Provisos for Blast Furnace Canopy Hoods and Building Ventilation (Stack 11)” Emission Standards Provisos No. 1 of the Permit requires that the Permittee limit emissions from the furnace building ventilation and canopy hoods, as measured at the outlet of Stack 11, to 2.04 pounds of particulate matter per hour.

9. “Provisos for Blast Furnace Canopy Hoods and Building Ventilation (Stack 11)” Emission Standards Provisos No. 2 of the Permit requires that the Permittee limit emissions from the furnace building ventilation and canopy hoods, as measured at the outlet of Stack 11, to 0.067 pounds of lead per hour.

DEPARTMENT'S CONTENTIONS

10. Between November 2 and 6, 2023, the Permittee conducted compliance testing of particulate matter and lead emissions from Stacks 10, 11, and 15 at the Facility. Additionally, on November 3, 2023, the Permittee conducted a relative accuracy test audit (“RATA”) on the sulfur dioxide CEMS installed at the outlet of Stack 15.

11. On December 21, 2023, the Permittee submitted a test report of the compliance testing to the Department. In this test report, the Permittee certified that the findings indicated noncompliance with the Permit. On the same day, the Permittee also submitted an audit report on the RATA conducted on the CEMS, wherein the Permittee certified that the findings indicated noncompliance with the Permit.

12. The test report indicated that lead emitted from Stack 15 at an average rate of 0.26 lb/hr during the compliance testing, exceeding the 0.258 lb/hr limit in the Permit. The Department’s subsequent review of the test report concurred with this finding and calculated the lead emission rate to be 0.262 lb/hr.

13. The test report indicated that lead emitted from Stack 10 at an average rate of 0.014 lb/hr during the compliance testing, exceeding the 0.008 lb/hr limit in the Permit.

14. The test report indicated that lead emitted from Stack 11 at an average rate of 0.11 lb/hr during the compliance testing, exceeding the 0.067 lb/hr limit in the Permit.

Additionally, particulate matter emitted at an average rate of 5.2 lb/hr during the compliance testing, exceeding the 2.04 lb/hr limit in the Permit.

15. The audit report indicated that the sulfur dioxide CEMS installed on Stack 15 demonstrated 34.56% relative accuracy during the RATA, exceeding the 20% relative accuracy limit in Performance Specification 2 and the Permit.

16. On January 17, 2024, the Department issued a Notice of Violation to the Permittee for the exceedances observed during compliance testing and the RATA.

17. In addition to noting the violations that occurred during the compliance testing and the RATA, the Department requested within the Notice of Violation that the Permittee specify a construction deadline for the additional baghouse and HEPA filter (Stack 17) that must be added to the blast furnace canopy hoods and building ventilation system.

18. On February 14, 2024, the Permittee responded to the Notice of Violation, citing inexperience among air quality systems personnel as the primary contributing factor to the exceedances observed during compliance testing. The Permittee stated, in part, "Due to this inexperience, the inspection of all AQS [Air Quality System] systems was not completed adequately prior to the facility's source testing in November 2023."

19. In the response to the Notice of Violation, the Permittee identified better personnel training, updates to the standard operating procedures for inspecting and maintaining air quality systems, and improvements to system alarms as corrective actions for the aforementioned violations.

20. Additionally, the Permittee stated in the response to the Notice of Violation that Stack 17 would be constructed and erected "sometime in 2025" following progression

on the projects to raise the heights of Stacks 4, 10, and 14 and to install and connect an emergency generator to the “emission control system”. The Permittee stated, “Once these projects are underway and moving to completion, construction on Stack 17 will get underway.”

21. Pursuant to Ala. Code § 22-22A-5(18)c., *as amended*, in determining the amount of any penalty, the Department must give consideration to the seriousness of the violation, including any irreparable harm to the environment and any threat to the health or safety of the public; the standard of care manifested by such person; the economic benefit which delayed compliance may confer upon such person; the nature, extent and degree of success of such person's efforts to minimize or mitigate the effects of such violation upon the environment; such person's history of previous violations; and the ability of such person to pay such penalty. Any civil penalty assessed pursuant to this authority shall not exceed \$25,000.00 for each violation, provided however, that the total penalty assessed in an order issued by the Department shall not exceed \$250,000.00. Each day such violation continues shall constitute a separate violation. In arriving at this civil penalty, the Department has considered the following.

A. SERIOUSNESS OF THE VIOLATION: The Department considers the Permittee’s multiple exceedances of Permit emission limits during the November 2 through 6, 2023 stack testing to be serious violations. The Department also considers the Permittee’s deviation from the CEMS relative accuracy standard observed during the November 3, 2023, RATA to be a serious violation.

B. THE STANDARD OF CARE: The Permittee failed to exhibit a sufficient standard of care by exceeding one particulate matter emission limit, multiple lead emission



limits, and the CEMS relative accuracy standard in the Permit. In admitting to a lapse in their standard of care, the Permittee cited inadequate inspection of air quality systems prior to the compliance testing; the Department notes that the Permittee must exhibit a high standard of care at all times, not merely prior to compliance testing.

C. ECONOMIC BENEFIT WHICH DELAYED COMPLIANCE MAY HAVE CONFERRED: The Department is unaware of any economic benefit that the Permittee may have derived by failing to comply with the emission limits and the CEMS relative accuracy standard.

D. EFFORTS TO MINIMIZE OR MITIGATE THE EFFECTS OF THE VIOLATION UPON THE ENVIRONMENT: The Department is not aware of any efforts by the Permittee to minimize or mitigate the effects of these violations on the environment. The violations listed herein result directly from the Permittee's insufficient adherence to operating procedures and maintenance plans.

E. HISTORY OF PREVIOUS VIOLATIONS: The Department issued a Notice of Violation on January 29, 2020, and October 27, 2021, for unrelated violations. On October 27, 2022, the Permittee conducted stack testing, and the subsequent test report indicated that the particulate matter emitting from Stack 11 exceeded the 2.04 lb/hr limit in the Permit at an average rate of 3.5 lb/hr during the compliance testing; results from the January 13, 2023 retest indicated a particulate matter emission rate of 1.1 lb/hr.

F. THE ABILITY TO PAY: The Permittee has not alleged an inability to pay the civil penalty.

G. OTHER FACTORS: It should be noted that this Special Order by Consent is a negotiated settlement and, therefore, the Department has compromised the amount of

the penalty in this matter in the spirit of cooperation and the desire to resolve this matter amicably, without incurring the unwarranted expense of litigation.

22. The Department has carefully considered the six statutory penalty factors enumerated in Ala. Code § 22-22A-5(18)c., *as amended*, as well as the need for timely and effective enforcement and, based upon the foregoing and attached contentions, has concluded that the civil penalty herein is appropriate (*See* “Attachment A”, which is hereby made a part of the Department’s Contentions).

23. The Department neither admits nor denies the Permittee’s Contentions, which are set forth below. The Department has agreed to the terms of this Consent Order in an effort to resolve the alleged violations cited herein without the unwarranted expenditure of State resources in further prosecuting the above violations. The Department has determined that the terms contemplated in this Consent Order are in the best interests of the citizens of Alabama.

#### PERMITTEE’S CONTENTIONS

24. The Permittee neither admits nor denies the Department’s Contentions. The Permittee consents to comply with the terms of this Consent Order and to pay the civil penalty assessed herein. The Permittee’s entry into this Consent Order and agreement to pay the penalty assessed herein should in no way be deemed an admission of liability.

25. The Permittee took immediate and substantial efforts to minimize or mitigate the effects of any alleged violation upon the environment. The Permittee has devoted considerable resources towards addressing these issues as part of its commitment

to operate its facility in full compliance with its permits and applicable laws and regulations.

ORDER

THEREFORE, the Permittee, along with the Department, desires to resolve and settle the compliance issues cited above. The Department has carefully considered the facts available to it and has considered the six penalty factors enumerated in Ala. Code § 22-22A-5(18)c., as amended, as well as the need for timely and effective enforcement, and the Department has determined that the following conditions are appropriate to address the violations alleged herein. Therefore, the Department and the Permittee agree to enter into this Consent Order with the following terms and conditions:

A. The Permittee agrees to pay to the Department a civil penalty in the amount of \$200,000.00 in settlement of the violations alleged herein within forty-five days from the effective date of this Consent Order. Failure to pay the civil penalty within forty-five days from the effective date may result in the Department's filing a civil action in the Circuit Court of Montgomery County to recover the civil penalty.

B. The Permittee agrees that all penalties due pursuant to this Consent Order shall be made payable to the Alabama Department of Environmental Management by certified or cashier's check and shall be remitted to:

Office of General Counsel  
Alabama Department of Environmental Management  
P.O. Box 301463  
Montgomery, Alabama 36130-1463

C. The Permittee agrees to comply with all requirements of ADEM Administrative Code div. 335-3 and the Permit immediately upon the effective date of this

Order and continuing every day thereafter. In addition, the Permittee agrees that the following emission improvement projects approved by the Department shall be constructed and operable by June 30, 2025:

(1) The additional baghouse and HEPA filter (Stack 17) to the building ventilation system, as permitted under Air Permit 210-0005-X035.

(2) The addition of an emergency generator providing power for the blast furnace canopy hoods and building ventilation system (Stack 11), as permitted under Air Permit 210-0005-X036.

(3) The project to increase the heights of Stacks 4, 10, and 14, via retrofit, replacement, or consolidation.

This section or any other terms and conditions of this Consent Order shall not preclude the Permittee from requesting and obtaining a modification of the Permit for the Facility in the future to incorporate applicable regulatory changes and/or more current operating conditions including, but not limited to, updates or modifications to emission sources.

D. The parties agree that this Consent Order shall apply to and be binding upon both parties, their directors, officers, and all persons or entities acting under or for them. Each signatory to this Consent Order certifies that he or she is fully authorized by the party he or she represents to enter into the terms and conditions of this Consent Order, to execute the Consent Order on behalf of the party represented, and to legally bind such party.

E. The parties agree that, subject to the terms of these presents and subject to provisions otherwise provided by statute, this Consent Order is intended to operate as a full resolution of the violations which are cited in this Consent Order.

F. The Permittee agrees that it is not relieved from any liability if it fails to comply with any provision of this Consent Order.

G. For purposes of this Consent Order only, the Permittee agrees that the Department may properly bring an action to compel compliance with the terms and conditions contained herein in the Circuit Court of Montgomery County. The Permittee also agrees that in any action brought by the Department to compel compliance with the terms of this Agreement, the Permittee shall be limited to the defenses of *Force Majeure*, compliance with this Agreement and physical impossibility. A *Force Majeure* is defined as any event arising from causes that are not foreseeable and are beyond the reasonable control of the Permittee, including its contractors and consultants, which could not be overcome by due diligence (i.e., causes which could have been overcome or avoided by the exercise of due diligence will not be considered to have been beyond the reasonable control of the Permittee) and which delays or prevents performance by a date required by the Consent Order. Events such as unanticipated or increased costs of performance, changed economic circumstances, normal precipitation events, or failure to obtain federal, state, or local permits shall not constitute *Force Majeure*. Any request for a modification of a deadline must be accompanied by the reasons (including documentation) for each extension and the proposed extension time. This information shall be submitted to the Department a minimum of ten working days prior to the original anticipated completion date. If the Department, after review of the extension request, finds the work was delayed because of conditions beyond the control and without the fault of the Permittee, the Department may extend the time as justified by the circumstances. The Department may

also grant any other additional time extension as justified by the circumstances, but it is not obligated to do so.

H. The Department and the Permittee agree that the sole purpose of this Consent Order is to resolve and dispose of all allegations and contentions stated herein concerning the factual circumstances referenced herein. Should additional facts and circumstances be discovered in the future concerning the facility which would constitute possible violations not addressed in this Consent Order, then such future violations may be addressed in Orders as may be issued by the Director, litigation initiated by the Department, or such other enforcement action as may be appropriate, and the Permittee shall not object to such future orders, litigation or enforcement action based on the issuance of this Consent Order if future orders, litigation or other enforcement action address new matters not raised in this Consent Order.

I. The Department and the Permittee agree that this Consent Order shall be considered final and effective immediately upon signature of all parties. This Consent Order shall not be appealable, and the Permittee does hereby waive any hearing on the terms and conditions of the same.

J. The Department and the Permittee agree that this Order shall not affect the Permittee's obligation to comply with any Federal, State, or local laws or regulations.

K. The Department and the Permittee agree that final approval and entry into this Order are subject to the requirements that the Department give notice of proposed Orders to the public, and that the public have at least thirty days within which to comment on the Order.

L. The Department and the Permittee agree that, should any provision of this Order be declared by a court of competent jurisdiction or the Environmental Management Commission to be inconsistent with Federal or State law and therefore unenforceable, the remaining provisions hereof shall remain in full force and effect.

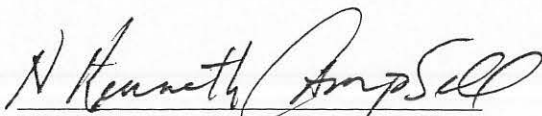
M. The Department and the Permittee agree that any modifications of this Order must be agreed to in writing, signed by both parties.

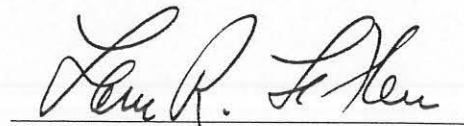
N. The Department and the Permittee agree that, except as otherwise set forth herein, this Order is not and shall not be interpreted to be a permit or modification of an existing permit under Federal, State, or local law, and shall not be construed to waive or relieve the Permittee of its obligations to comply in the future with any permit.

Executed in duplicate, with each part being an original.

SANDERS LEAD COMPANY, INC.

ALABAMA DEPARTMENT OF  
ENVIRONMENTAL MANAGEMENT

  
(Signature of Authorized Representative)

  
Lance R. LeFleur  
Director

N Kenneth Campbell  
(Printed Name)

President  
(Printed Title)

Date Signed: 7/15/24

Date Executed: 9/9/24

Attachment A

Sanders Lead Company, Inc.

Troy, Pike County

ADEM Air Facility ID No. 210-0005

Violation*	Number of Violations*	Seriousness of Violation*	Standard of Care*	History of Previous Violations*	
Exceedance of 0.258 lb/hr lead limit (Stack 15)	23	\$40,000.00	\$30,000.00	-	
Exceedance of CEMS 20% relative accuracy standard (Stack 15)	1	\$5,000.00	\$5,000.00	-	
Exceedance of 0.008 lb/hr lead limit (Stack 10)	23	\$40,000.00	\$30,000.00	-	
Exceedance of 2.04 lb/hr PM limit (Stack 11)	23	\$15,000.00	\$10,000.00	\$5,000.00	
Exceedance of 0.07 lb/hr lead limit (Stack 11)	23	\$40,000.00	\$30,000.00	-	<b>Total of Three Factors</b>
<b>TOTAL PER FACTOR</b>		<b>\$140,000.00</b>	<b>\$105,000.00</b>	<b>\$5,000.00</b>	<b>\$250,000.00</b>

Adjustments to Amount of Initial Penalty	
Mitigating Factors (-)	
Ability to Pay (-)	
Other Factors (+/-)	-\$50,000.00
<b>Total Adjustments (+/-)</b>	<b>-\$50,000.00</b>

Economic Benefit (+)	
Amount of Initial Penalty	\$250,000.00
Total Adjustments (+/-)	-\$50,000.00
<b>FINAL PENALTY</b>	<b>\$200,000.00</b>

Footnotes

\* See the "Department's Contentions" portion of the Order for a detailed description of each violation and the penalty factors. The number of violations accounts for the number of days between each performance test date and the date that the results were analyzed and indicated failure.





Alabama Department of Environmental Management  
adem.alabama.gov

1400 Coliseum Blvd. 36110-2400 ■ Post Office Box 301463  
Montgomery, Alabama 36130-1463  
(334) 271-7700 ■ FAX (334) 271-7950

September 9, 2024

**CERTIFIED MAIL NO.: 9489 0090 0027 6307 4300 41**  
**RETURN RECEIPT REQUESTED**

Mr. Chris Rutherford  
Manager of Environmental Services  
Sanders Lead Company, Inc.  
P.O. Drawer 707  
Troy, AL 36081

Re: **Final Consent Order**  
Sanders Lead Company, Inc.  
Troy, Alabama  
Facility No. 210-0005

Dear Mr. Rutherford:

Please find enclosed ADEM Consent Order No. **24-109-CAP**, which requires Sanders Lead Company, Inc. to take certain actions in regard to alleged violations of the Alabama Air Pollution Control Act. This Order has been issued with the consent of Sanders Lead Company, Inc. and the Department. Please note that payment is due within 45 days of receipt of the Order.

If you have any questions concerning this matter, please contact Jackson Rogers at (334) 271-7784 in Montgomery.

Sincerely,

Ronald W. Gore, Chief  
Air Division

RWG/rjr

Enclosure

cc: A. Todd Carter, Office of General Counsel  
9489 0090 0027 6307 4300 41



**Birmingham Office**  
110 Vulcan Road  
Birmingham, AL 35209-4702  
(205) 942-6168  
(205) 941-1603 (FAX)

**Decatur Office**  
2715 Sandlin Road, S.W.  
Decatur, AL 35603-1333  
(256) 353-1713  
(256) 340-9359 (FAX)

**Coastal Office**  
1615 South Broad Street  
Mobile, AL 36605  
(251) 450-3400  
(251) 479-2593 (FAX)

## **Appendix B**

### **Permit for Emergency Backup Engine**

Alabama Department of Environmental Management  
adem.alabama.gov

1400 Coliseum Blvd. 36110-2400 ■ Post Office Box 301463  
Montgomery, Alabama 36130-1463  
(334) 271-7700 ■ FAX (334) 271-7950

June 9, 2023

Chris Rutherford  
Manager of Environmental Services  
Sanders Lead Company  
1 Sanders Road  
Troy, AL 36079

**RE: Air Permit**  
Sanders Lead Company  
Facility No. 210-0005  
Permit No(s): X036

Dear Mr. Rutherford:

The enclosed Air Permit is issued pursuant to the Department's air pollution control rules and regulations. Please note the conditions that must be observed in order to retain this permit.

Sanders should provide written notification to the Chief of the Air Division upon completion of construction and prior to the planned operation of any new sources of air pollution included in this permit. This notification should indicate whether the project was completed as proposed in the permit application. If the notification states that the project was constructed as proposed, a Temporary Authorization to Operate will be sent which authorizes the facility to operate until any required emissions tests are completed or until a Department inspector verifies the information in the notification.

If you have any questions or require clarification of permit conditions, please email or call Jackson Rogers at (334) 271-7784 or [jackson.rogers@adem.alabama.gov](mailto:jackson.rogers@adem.alabama.gov) in Montgomery.

Sincerely,



Ronald W. Gore, Chief  
Air Division

RWG/rjr



# AIR PERMIT

**PERMITTEE:** SANDERS LEAD COMPANY, INC.

**FACILITY NAME:** SANDERS LEAD COMPANY

**LOCATION:** TROY, PIKE COUNTY, ALABAMA

<u>PERMIT NUMBER</u>	<u>DESCRIPTION OF EQUIPMENT, ARTICLE, OR DEVICE</u>
210-0005-X036	Emergency Backup Engine

*In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, Ala. Code §§ 22-28-1 to 22-28-23, as amended, the Alabama Environmental Management Act, Ala. Code §§ 22-22A-1 to 22-22A-17, as amended, and rules and regulations adopted there under, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to construct, install and use the equipment, device or other article described above.*

**ISSUANCE DATE:** June 12, 2023



Alabama Department of Environmental Management

SANDERS LEAD COMPANY, INC.  
TROY, ALABAMA  
(PERMIT NO. 210-0005-X036)  
PROVISOS

**General Permit Provisos**

1. This permit is issued on the basis of Rules and Regulations existing on the date of issuance. In the event additional Rules and Regulations are adopted, it shall be the permit holder's responsibility to comply with such rules.
2. This permit is not transferable. Upon sale or legal transfer, the new owner or operator must apply for a permit within 30 days.
3. A new permit application must be made for new sources, replacements, alterations or design changes which may result in the issuance of, or an increase in the issuance of, air contaminants, or the use of which may eliminate or reduce or control the issuance of air contaminants.
4. Each point of emission, which requires testing, will be provided with sampling ports, ladders, platforms, and other safety equipment to facilitate testing performed in accordance with procedures established by Part 60 of Title 40 of the Code of Federal Regulations, as the same may be amended or revised.
5. All air pollution control equipment shall be operated at all times while this process is operational. In the event of scheduled maintenance, unscheduled maintenance, or a breakdown of the pollution control equipment, the process shall be shutdown as expeditiously as possible (unless this act and subsequent re-start would clearly cause greater emissions than continuing operations of the process for a short period). The Department shall be notified of all such events **that exceed 1 hour** within 24 hours. The notification shall include all pertinent facts, including the duration of the process operating without the control device and the level of excess emissions which have occurred. Records of all such events, regardless of reporting requirements, shall be made and maintained for a period of five years. These records shall be available for inspection.
6. In the event there is a breakdown of air pollution control or process equipment in such a manner as to cause increased emission of air contaminants for a period greater than **1 hour**, the person responsible for such equipment shall notify the Air Division within 24 hours and provide a statement giving all pertinent facts, including the duration of the breakdown. The Air Division shall be notified when the breakdown has been corrected.
7. All deviations from requirements within this permit shall be reported to the Department within 48 hours of the deviation or by the next work day while providing a statement with regards to the date, time, duration, cause, and corrective actions taken to bring the sources back into compliance.
8. This process, including all air pollution control devices and capture systems for which this permit is issued shall be maintained and operated at all times in a manner so as to minimize the emissions of air contaminants. Procedures for ensuring that the above equipment is properly operated and maintained so as to minimize the emission of air contaminants shall be established.

9. This permit expires and the application is cancelled if construction has not begun within 24 months of the date of issuance of the permit.
10. On completion of construction of the device(s) for which this permit is issued, written notification of the fact is to be submitted to the Chief of the Air Division. The notification shall indicate whether the device(s) was constructed as proposed in the application. The device(s) shall not be operated until authorization to operate is granted by the Chief of the Air Division. Failure to notify the Chief of the Air Division of completion of construction and/or operation without authorization could result in revocation of this permit.
11. Submittal of other reports regarding monitoring records, fuel analyses, operating rates, and equipment malfunctions may be required as authorized in the Department's air pollution control rules and regulations. The Department may require stack emission testing at any time.
12. Additions and revisions to the conditions of this Permit will be made, if necessary, to ensure that the Department's air pollution control rules and regulations are not violated.
13. Nothing in this permit or conditions thereto shall negate any authority granted to the Air Division pursuant to the Alabama Environmental Management Act or regulations issued thereunder.
14. This permit is issued with the condition that, should obnoxious odors arising from the plant operations be verified by Air Division inspectors, measures to abate the odorous emissions shall be taken upon a determination by the Alabama Department of Environmental Management that these measures are technically and economically feasible.
15. The Air Division must be notified in writing at least 10 working days in advance of all emission tests to be conducted and submitted as proof of compliance with the Department's air pollution control rules and regulations.

To avoid problems concerning testing methods and procedures, the following shall be included with the notification letter:

- (a) The date the test crew is expected to arrive, the date and time anticipated of the start of the first run, how many and which sources are to be tested, and the names of the persons and/or testing company that will conduct the tests.
- (b) A complete description of each sampling train to be used, including type of media used in determining gas stream components, type of probe lining, type of filter media, and probe cleaning method and solvent to be used (if test procedure requires probe cleaning).
- (c) A description of the process(es) to be tested, including the feed rate, any operating parameter used to control or influence the operations, and the rated capacity.
- (d) A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances.

A pretest meeting may be held at the request of the source owner or the Department. The necessity for such a meeting and the required attendees will be determined on a case-by-case basis.

All test reports must be submitted to the Air Division within 30 days of the actual completion of the test, unless an extension of time is specifically approved by the Air Division.

16. Records will be maintained of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the process equipment and any malfunction of the air pollution control equipment. These records will be kept in a permanent form suitable for inspection and will be retained for at least two years following the date of each occurrence.
17. Precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stockpiles, screens, dryers, hoppers, ductwork, etc.

Plant or haul roads and grounds will be maintained in the following manner so that dust will not become airborne. A minimum of one, or a combination, of the following methods shall be utilized to minimize airborne dust from plant or haul roads and grounds:

- (a) by the application of water any time the surface of the road is sufficiently dry to allow the creation of dust emissions by the act of wind or vehicular traffic;
- (b) by reducing the speed of vehicular traffic to a point below that at which dust emissions are created;
- (c) by paving;
- (d) by the application of binders to the road surface at any time the road surface is found to allow the creation of dust emissions;

Should one, or a combination, of the above methods fail to adequately reduce airborne dust from plant or haul roads and grounds, alternative methods shall be employed, either exclusively or in combination with one or all of the above control techniques, so that dust will not become airborne. Alternative methods shall be approved by the Department prior to utilization.

18. Any performance tests required shall be conducted and data reduced in accordance with the test methods and procedures contained in each specific permit condition unless the Director (1) specifies or approves, in specific cases, the use of a reference method with minor changes in methodology, (2) approves the use of an equivalent method, or (3) approves the use of an alternative method, the results of which he has determined to be adequate for indicating whether a specific source is in compliance.
19. The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.
20. The permittee shall not use as a defense in an enforcement action that maintaining compliance with conditions of this permit would have required halting or reducing the permitted activity.

21. The permittee shall keep this permit under file or on display at all times at the site where the facility for which the permit is issued is located and shall make the permit readily available for inspection by any or all persons who may request to see it.
22. The permittee shall submit an annual compliance certification to the Department no later than 60 days following the anniversary of the permittee's Title V permit. The compliance certification shall include the following:
  - (a) The compliance certification shall include the following:
    - a. The identification of each term or condition of this permit that is the basis of the certification;
    - b. The compliance status;
    - c. The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with Rule 335-3-16-.05(c) (Monitoring and Recordkeeping Requirements);
    - d. Whether compliance has been continuous or intermittent; and
    - e. Such other facts as the Department may require in order to determine the compliance status of the source.
  - (b) The compliance certification shall be submitted to:

Alabama Department of Environmental Management  
Air Division  
P.O. Box 301463  
Montgomery, AL 36130-1463



**Emergency Backup Engine**

	Regulations
<p><b>Applicability</b></p> <ol style="list-style-type: none"> <li>1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16, "<i>Major Source Operating Permits</i>".</li> <li>2. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01, "<i>Control of Particulate Emissions – Visible Emissions</i>".</li> <li>3. This source is subject to the applicable requirements of 40 CFR Part 63, Subpart A, "<i>General Provisions</i>" as listed in Table 8 to 40 CFR Part 63, Subpart ZZZZ, "<i>NESHAP for Stationary Reciprocating Internal Combustion Engines</i>"</li> </ol>	<p>Rule 335-3-16-.03</p> <p>Rule 335-3-4-.01</p> <p>Rule 335-3-10-.02(87) 40 CFR §63.6580</p>
<p><b>Emission Standards</b></p> <ol style="list-style-type: none"> <li>1. The engine shall meet the following opacity standards:           <ol style="list-style-type: none"> <li>(a) Except for one 6-minute period during any 60-minute period, the engines shall not discharge into the atmosphere particulate that results in an opacity greater than 20%, as determined by a 6-minute average.</li> <li>(b) At no time shall the engines discharge into the atmosphere particulate that results in an opacity greater than 40%, as determined by a 6-minute average.</li> </ol> </li> </ol>	<p>Rule 335-3-4-.01(1)(a)</p> <p>Rule 335-3-4-.01(1)(b)</p>
<p><b>Compliance and Performance Test Methods and Procedures</b></p> <ol style="list-style-type: none"> <li>1. If testing is required, Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate matter emissions.</li> <li>2. If testing is required, Method 9 of 40 CFR Part 60, Appendix A shall be used in the determination of opacity of the stack emissions.</li> <li>3. If testing is required, Method 7E of 40 CFR Part 60, Appendix A shall be used in the determination of NO<sub>x</sub> emissions.</li> </ol>	<p>Rule 335-3-1-.05</p> <p>Rule 335-3-1-.05</p> <p>Rule 335-3-1-.05</p>

**Regulations**

- |   |                  |
|---|------------------|
| 4. If testing is required, Method 10 of 40 CFR Part 60, Appendix A shall be used in the determination of CO emissions.                    | Rule 335-3-1-.05 |
| 5. If testing is required, Methods 18, 25, 25A, or 25B of 40 CFR Part 60, Appendix A shall be used in the determination of VOC emissions. | Rule 335-3-1-.05 |

**Emission Monitoring**

- |  |                   |
|--|-------------------|
| 1. The facility shall install a non-resettable hour meter on the engine if one is not already installed.   | Rule 335-3-16-.03 |
| 2. The facility must operate and maintain the engine according to the manufacturer's emission-related written instructions.  | Rule 335-3-16-.03 |
| 3. The facility must install and configure the engine according to the manufacturer's emission-related specification.  | Rule 335-3-16-.03 |
| 4. For the emergency engine, to retain its emergency status the following must be maintained:  | Rule 335-3-16-.03 |
| (a) The engine may be operated for the purpose of maintenance checks and readiness testing for a period not to exceed 100 hours per year   |                   |
| (b) There is no time limit on the use of the engine in emergency situations.   |                   |
| (c) The engine may operate up to 50 hours per year in non-emergency situations.  |                   |
| i. The 50 hours for non-emergency situations shall count towards the 100 hours allowed for maintenance checks and readiness.   |                   |
| ii. The 50 hours for non-emergency situations shall not be used for peak shaving or generating income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity. |                   |
| iii. Any operation of the emergency engine other than for emergency operation, maintenance testing, and operation in non-emergency situation for 50 hours per year is prohibited.  |                   |

**Recordkeeping and Reporting Requirements**

- |   |                   |
|---|-------------------|
| 4. The facility shall maintain a record of the hours of operation of the engine that is recorded through the non-resettable hour meter. The facility must document how many hours are spent for emergency operation and non-emergency operation, including the reason the engine was in operation during that time. | Rule 335-3-16-.03 |
|---|-------------------|

## **Appendix C**

### **Permit Blast Furnace Canopy Hoods and Building Ventilation (Stacks 11 & 17)**

Alabama Department of Environmental Management  
[adem.alabama.gov](http://adem.alabama.gov)

1400 Coliseum Blvd. 36110-2400 ■ Post Office Box 301463  
Montgomery, Alabama 36130-1463  
(334) 271-7700 ■ FAX (334) 271-7950

April 12, 2023

Chris Rutherford  
Manager of Environmental Services  
Sanders Lead Company  
1 Sanders Road  
Troy, AL 36079

**RE: Air Permit**  
Sanders Lead Company  
Facility No. 210-0005  
Permit No(s): X035

Dear Mr. Rutherford:

The enclosed Air Permit is issued pursuant to the Department's air pollution control rules and regulations. Please note the conditions that must be observed in order to retain this permit.

Sanders should provide written notification to the Chief of the Air Division upon completion of construction and prior to the planned operation of any new sources of air pollution included in this permit. This notification should indicate whether the project was completed as proposed in the permit application. If the notification states that the project was constructed as proposed, a Temporary Authorization to Operate will be sent which authorizes the facility to operate until any required emissions tests are completed or until a Department inspector verifies the information in the notification.

If you have any questions or require clarification of permit conditions, please email or call Jackson Rogers at (334) 271-7784 or [jackson.rogers@adem.alabama.gov](mailto:jackson.rogers@adem.alabama.gov) in Montgomery.

Sincerely,



Ronald W. Gore, Chief  
Air Division

RWG/rjr





## AIR PERMIT

**PERMITTEE:** SANDERS LEAD COMPANY  
**FACILITY NAME:** SANDERS LEAD COMPANY  
**LOCATION:** TROY, ALABAMA

<u>PERMIT NUMBER</u>	<u>DESCRIPTION OF EQUIPMENT, ARTICLE, OR DEVICE</u>
210-0005-X035	Blast Furnace Canopy Hoods and Building Ventilation (Stacks 11 & 17)

*In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, Ala. Code §§22-28-1 to 22-28-23, as amended, the Alabama Environmental Management Act, Ala. Code §§22-22A-1 to 22-22A-17, as amended, and rules and regulations adopted there under, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to construct, install and use the equipment, device or other article described above.*

**ISSUANCE DATE:** April 12, 2023

\_\_\_\_\_  
Alabama Department of Environmental Management

**SANDERS LEAD COMPANY  
TROY, ALABAMA  
(PERMIT NO. 210-0005-X035)  
PROVISOS**

**General Permit Provisos**

1. This permit is issued on the basis of Rules and Regulations existing on the date of issuance. In the event additional Rules and Regulations are adopted, it shall be the permit holder's responsibility to comply with such rules.
2. This permit is not transferable. Upon sale or legal transfer, the new owner or operator must apply for a permit within 30 days.
3. A new permit application must be made for new sources, replacements, alterations or design changes which may result in the issuance of, or an increase in the issuance of, air contaminants, or the use of which may eliminate or reduce or control the issuance of air contaminants.
4. Each point of emission, which requires testing, will be provided with sampling ports, ladders, platforms, and other safety equipment to facilitate testing performed in accordance with procedures established by Part 60 of Title 40 of the Code of Federal Regulations, as the same may be amended or revised.
5. In case of shutdown of air pollution control equipment for scheduled maintenance for a period greater than **1 hour**, the intent to shut down shall be reported to the Air Division at least 24 hours prior to the planned shutdown, **unless accompanied by the immediate shutdown of the emission source.**
6. In the event there is a breakdown of equipment in such a manner as to cause increased emission of air contaminants for a period greater than **1 hour**, the person responsible for such equipment shall notify the Air Division within an additional 24 hours and provide a statement giving all pertinent facts, including the duration of the breakdown. The Air Division shall be notified when the breakdown has been corrected.
7. This process, including all air pollution control devices and capture systems for which this permit is issued shall be maintained and operated at all times in a manner so as to minimize the emissions of air contaminants. Procedures for ensuring that the above equipment is properly operated and maintained so as to minimize the emission of air contaminants shall be established.
8. This permit expires and the application is cancelled if construction has not begun within 24 months of the date of issuance of the permit.
9. On completion of construction of the device(s) for which this permit is issued, written notification of the fact is to be submitted to the Chief of the Air Division. The notification shall indicate whether the device(s) was constructed as proposed in the application. The device(s) shall not be operated until authorization to operate is granted by the Chief of the Air Division. Failure to notify the Chief of the Air Division of completion of construction and/or operation without authorization could result in revocation of this permit.

**PERMIT NO. 210-0005-X035**

10. Submittal of other reports regarding monitoring records, fuel analyses, operating rates, and equipment malfunctions may be required as authorized in the Department's air pollution control rules and regulations. The Department may require stack emission testing at any time.
11. Additions and revisions to the conditions of this Permit will be made, if necessary, to ensure that the Department's air pollution control rules and regulations are not violated.
12. Nothing in this permit or conditions thereto shall negate any authority granted to the Air Division pursuant to the Alabama Environmental Management Act or regulations issued thereunder.
13. This permit is issued with the condition that, should obnoxious odors arising from the plant operations be verified by Air Division inspectors, measures to abate the odorous emissions shall be taken upon a determination by the Alabama Department of Environmental Management that these measures are technically and economically feasible.
14. The Air Division must be notified in writing at least 10 working days in advance of all emission tests to be conducted and submitted as proof of compliance with the Department's air pollution control rules and regulations.

To avoid problems concerning testing methods and procedures, the following shall be included with the notification letter:

- (a) The date the test crew is expected to arrive, the date and time anticipated of the start of the first run, how many and which sources are to be tested, and the names of the persons and/or testing company that will conduct the tests.
- (b) A complete description of each sampling train to be used, including type of media used in determining gas stream components, type of probe lining, type of filter media, and probe cleaning method and solvent to be used (if test procedure requires probe cleaning).
- (c) A description of the process(es) to be tested, including the feed rate, any operating parameter used to control or influence the operations, and the rated capacity.
- (d) A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances.

A pretest meeting may be held at the request of the source owner or the Department. The necessity for such a meeting and the required attendees will be determined on a case-by-case basis.

All test reports must be submitted to the Air Division within 30 days of the actual completion of the test, unless an extension of time is specifically approved by the Air Division.

15. The permittee shall not use as a defense in an enforcement action that maintaining compliance with conditions of this permit would have required halting or reducing the permitted activity.
16. Precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stockpiles, screens, dryers, hoppers, ductwork, etc.

**PERMIT NO. 210-0005-X035**

Plant or haul roads and grounds will be maintained in the following manner so that dust will not become airborne. A minimum of one, or a combination, of the following methods shall be utilized to minimize airborne dust from plant or haul roads and grounds:

- (a) by the application of water any time the surface of the road is sufficiently dry to allow the creation of dust emissions by the act of wind or vehicular traffic;
- (b) by reducing the speed of vehicular traffic to a point below that at which dust emissions are created;
- (c) by paving;
- (d) by the application of binders to the road surface at any time the road surface is found to allow the creation of dust emissions;

Should one, or a combination, of the above methods fail to adequately reduce airborne dust from plant or haul roads and grounds, alternative methods shall be employed, either exclusively or in combination with one or all of the above control techniques, so that dust will not become airborne. Alternative methods shall be approved by the Department prior to utilization.

- 17. The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.
- 18. The permittee shall keep this permit under file or on display at all times at the site where the facility for which the permit is issued is located and shall make the permit readily available for inspection by any or all persons who may request to see it.
- 19. The permittee shall submit an annual compliance certification to the Department no later than 60 days following the anniversary of the permittee's Title V permit. The compliance certification shall include the following:
  - (a) The compliance certification shall include the following:
    - a. The identification of each term or condition of this permit that is the basis of the certification;
    - b. The compliance status;
    - c. The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with Rule 335-3-16-.05(c) (Monitoring and Recordkeeping Requirements);
    - d. Whether compliance has been continuous or intermittent; and
    - e. Such other facts as the Department may require in order to determine the compliance status of the source.
  - (b) The compliance certification shall be submitted to:

Alabama Department of Environmental Management  
Air Division  
P.O. Box 301463  
Montgomery, AL 36130-1463



**Blast Furnace Canopy Hoods and Building Ventilation (Stacks 11 & 17)  
Provisos**

<b>Applicability</b>	<b>Regulations</b>
1. This source has enforceable limits in place in order to provide for the attainment of the National Ambient Air Quality Standards.	Rule 335-3-1-.03
2. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.15, " <i>Control of Particulate Emissions from Secondary Lead Smelters.</i> "	Rule 335-3-4-.15
3. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, " <i>Major Source Operating Permits.</i> "	Rule 335-3-16-.03
4. This source is subject to the applicable requirements of 40 CFR Part 63, Subpart X, " <i>National Emission Standards for Hazardous Air Pollutants from Secondary Lead Smelting.</i> "	40 CFR 63.541(a) Rule 335-3-11-.06(23)
5. This source is subject to the applicable requirements of 40 CFR Part 63, Subpart X, " <i>General Provisions</i> " as listed in Table 1 of subpart X.	Table 1 of Subpart X
6. This source is subject to the applicable requirements of 40 CFR Part 64, " <i>Compliance Assurance Monitoring</i> " for particulate matter.	40 CFR Part 64
<b>Emission Standards</b>	
1. Particulate Matter (PM) emissions from Stacks 11 and 17 shall not exceed a combined mass emission rate of 2.04 lb/hr.	Rule 335-3-1-.03
2. Lead emissions from Stacks 11 and 17 shall not exceed a combined mass emission rate of 0.067 lb/hr.	Rule 335-3-1-.03
3. Lead emissions from Stacks 11 and 17 shall not exceed 0.00043 gr/dscf.	40 CFR 63.543(a)
4. The flow-weighted average concentration of lead emissions all process vents shall not exceed 0.000087 gr/dscf, as demonstrated on a 12-month rolling average basis.	40 CFR 63.543(a)
5. Secondary HEPA filter systems shall be installed downstream of the baghouses associated with Stacks 11 & 17.	40 CFR 63.548(g)
6. The furnace building shall be designed as a total enclosure and maintained at a negative pressure at all times. Fugitive emissions from the smelting area shall be vented to Stacks 11 & 17.	40 CFR 63.544(a)

	Regulations
7. All maintenance activities associated with contaminated equipment shall be conducted within enclosed areas. Transfer points shall be installed at the furnace building's smelting area exits to contain leaded vehicles within the building. Contaminated equipment leaving the enclosure shall be decontaminated prior to exiting the enclosure.	40 CFR 63.544(c)
<b>Compliance and Performance Test Methods and Procedures</b>	
1. Method 9 of 40 CFR Part 60 (latest edition), Appendix A-4 shall be used in the determination of opacity.	Rule 335-3-1-.05
2. Method 5 of 40 CFR Part 60 (latest edition), Appendix A-4 shall be used in the determination of particulate matter (filterable) emissions.	Rule 335-3-1-.05
3. Method 12 or 29 of 40 CFR Part 60 (latest edition), Appendix A-5 shall be used in the determination of lead compound emissions.	40 CFR 63.547(a)(5)
4. Compliance tests for lead emissions from Stacks 11 & 17 shall be conducted according to the schedule specified in 40 CFR 63.543(g). Stacks 11 & 17 shall be tested concurrently.	40 CFR 63.543(g)
<b>Emission Monitoring</b>	
1. This source is subject to the applicable monitoring requirements in 40 CFR 63.548.	40 CFR 63.548
2. Reference the Appendix for the monitoring requirements for 40 CFR Part 64, " <i>Compliance Assurance Monitoring</i> " and for ADEM Admin. Code r. 335-3-16-.05(c).	40 CFR Part 64 Rule 335-3-16-.05(c)(ii)
3. A standard operating procedures (SOP) manual shall be prepared and adhered to as required by 40 CFR 63.548(a). The SOP manual must, at a minimum, include the requirements of 40 CFR 63.548(c) and (d).	40 CFR 63.548(a)-(d)
4. The facility shall monitor and record the pressure drop across the HEPA filter system, daily. If the pressure drop is outside the limit specified by the filter manufacturer, maintenance inspections and/or corrective action are to be initiated according to the requirements in 40 CFR 63.548(g)(1)-(4).	40 CFR 63.548(g)
5. The facility must install, operate and maintain a digital differential pressure monitoring system to continuously monitor the furnace building total enclosure. The negative differential pressure must be maintained to at least 0.007 inches of water column, as measured by monitors installed on one leeward wall, one windward wall, and one additional wall of the building.	40 CFR 63.544(c)(1)-(3)

	Regulations
6. The facility must inspect the furnace building total enclosure at least once per month, repairing any gaps, breaks, separations, leak points, or other possible routes for emissions of lead to the atmosphere within one week of identification unless approval is obtained from the Department before the repair period is exceeded.	40 CFR 63.544(d)
<b>Recordkeeping and Reporting Requirements</b>	
1. The permittee shall maintain a record of all monitoring required by this permit. This shall include all problems observed and corrective action taken. The records shall be maintained in a form suitable for inspection and shall be kept on site for a period of five (5) years.	Rule 335-3-16-.05(c)
2. The facility shall comply with the applicable recordkeeping requirements of 40 CFR 63.10(b) and 40 CFR 63.550(c), including the following records related to this source:	
(a) Each startup or shutdown resulting in an emission exceedance.	40 CFR 63.10(b)(2)(i)
(b) All required maintenance performed on control devices and monitoring equipment, including all maintenance conducted according to the SOP.	40 CFR 63.10(b)(2)(iii) 40 CFR 63.550(c)(3)
(c) The results of all performance tests and associated measurements taken during performance tests.	40 CFR 63.10(b)(2)(viii - ix)
(d) All continuous monitoring system malfunctions.	40 CFR 63.10(b)(2)(vi)
(e) All required measurements by continuous monitoring systems.	40 CFR 63.10(b)(2)(vii)
(f) All continuous monitoring system calibrations and adjustments.	40 CFR 63.10(b)(2)(x - xi)
(g) All control device malfunctions and associated corrective actions.	40 CFR 63.550(c)(11-12)
3. Within 60 days after the date of completing each performance test conducted to show compliance with 40 CFR Part 60, Subpart X, the facility must submit a test report according to the requirements of 40 CFR 63.10(d)(2) and 40 CFR 63.550(e)(14).	
4. The facility shall submit a semiannual 40 CFR Part 63, Subpart X report to the Department meeting the requirements of 40 CFR 63.10(c) and 40 CFR 63.550(d)&(e), including the following related to this source:	40 CFR 63.10(c) 40 CFR 63.550(d)&(e)
(a) A summary of records maintained per the SOP, including notification of any instances where the SOP was not followed.	40 CFR 63.550(e)(6)

	Regulations
(b) A summary of any malfunction occurring during the reporting period.	40 CFR 63.550(e)(11)
(c) The facility-wide, rolling 12-month flow-weighted average concentration of lead emissions in all process vent gases as calculated per 40 CFR 63.543(a).	40 CFR 63.550(e)(1)

# Appendix

## CAM - PM Compliance Plan for Canopy Hoods and Furnace Building Ventilation Baghouse Stack 11

	Indicator 1	Indicator 2
I. Indicator	HEPA Pressure Drop	Inspection/Maintenance
Measurement Approach	Pressure Drop across the HEPA filter is measured with a Magnehelic Pressure Gauge	Various baghouse system operation and maintenance inspections are conducted within prescribed intervals, per MACT SOP manual.
II. Indicator Range	While the unit is operating, an excursion is defined as a pressure differential below 0.5 inches of H <sub>2</sub> O and greater than 5.0 inches of H <sub>2</sub> O. Excursions trigger an inspection, corrective action, and a reporting requirement.	An excursion is defined as failure to perform inspections per MACT SOP manual or failure to take action following report of necessary maintenance.
III. Performance Criteria		
A. Data Representativeness	The magnehelic measures the pressure differential between the inlet and outlet of the HEPA filter system. The gauge has a minimum accuracy of 0.3 inches of H <sub>2</sub> O.	Per MACT SOP
B. Verification of Operation Status		
C. QA/QC Practices and Criteria	Not Applicable	Not Applicable
D. Monitoring Frequency	Quarterly inspection of the pressure taps located at the HEPA inlet and outlet.	Trained personnel to perform maintenance and inspections.
E. Data Collection Procedures	At least once daily	Per MACT SOP
F. Averaging Period	The pressure drop will be recorded with date and time.	Per MACT SOP
	Instantaneous	Not Applicable

# Appendix

## Chapter 16 - PM Compliance Plan for Canopy Hoods and Furnace Building Ventilation Baghouse Stack 17

	Indicator 1	Indicator 2
I. Indicator	HEPA Pressure Drop	Inspection/Maintenance
Measurement Approach	Pressure Drop across the HEPA filter is measured with a Magnehelic Pressure Gauge	Various baghouse system operation and maintenance inspections are conducted within prescribed intervals, per MACT SOP manual.
II. Indicator Range	While the unit is operating, an excursion is defined as a pressure differential below outside of the range specified by the manufacturer. Excursions trigger an inspection, corrective action, and a reporting requirement.	An excursion is defined as failure to perform inspections per MACT SOP manual or failure to take action following report of necessary maintenance.
III. Performance Criteria		
A. Data Representativeness	The magnehelic measures the pressure differential between the inlet and outlet of the HEPA filter system. The gauge has a minimum accuracy of 0.3 inches of H <sub>2</sub> O.	Per MACT SOP
B. Verification of Operation Status	Not Applicable	Not Applicable
C. QA/QC Practices and Criteria	Quarterly inspection of the pressure taps located at the HEPA inlet and outlet.	Trained personnel to perform maintenance and inspections.
D. Monitoring Frequency	At least once daily	Per MACT SOP
E. Data Collection Procedures	The pressure drop will be recorded with date and time.	Per MACT SOP
F. Averaging Period	Instantaneous	Not Applicable