

# ARTICLE 15. LEAD RULES

[Rule 1.](#) Lead Emission Limitations

## Rule 1. Lead Emission Limitations

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### 326 IAC 15-1-1 Applicability

Authority: [IC 13-14-8](#); [IC 13-17-3-4](#); [IC 13-17-3-11](#); [IC 13-17-3-12](#)  
Affected: [IC 13-15](#); [IC 13-17](#)

Sec. 1. This rule applies to stationary sources listed in section 2 of this rule. (*Air Pollution Control Division; 326 IAC 15-1-1; filed Mar 10, 1988, 1:20 p.m.: 11 IR 2564; filed Jun 14, 1989, 5:00 p.m.: 12 IR 1850; filed Apr 22, 1997, 2:00 p.m.: 20 IR 2372; readopted filed Jan 10, 2001, 3:20 p.m.: 24 IR 1477; filed Dec 20, 2001, 4:30 p.m.: 25 IR 1604*)

### 326 IAC 15-1-2 Source-specific provisions

Authority: [IC 13-14-8](#); [IC 13-17-3-4](#)  
Affected: [IC 13-17](#)

Sec. 2. (a) The sources listed in this subsection shall comply with the following emission and operating provisions:

Source	Emission Unit	Emission Limitation lbs/hr
(1) Indiana Oxide Corporation, Brazil	Barton #1 reactor	0.215
	Barton #2 reactor	0.215
	Barton #3 reactor	0.215
	Barton #4 reactor	0.215
	Rake furnace	0.006
(2) Hammond Lead Products, Inc., HLP-Lead Plant	Stack 4A-S-8	0.053
	Stack 14-S-16	0.053
	Stack 1-S-2	0.053
	Stack 1-S-26	0.053
	Stack 16-S-56	0.200
	Stack 1-S-52	0.070
	Stack 1-S-27	0.020
	Stack 4-S-35	0.090
	Stack 6-S-33	0.070
	Stack 4B-S-34	0.080
Stack 6-S-47	0.021	
Stack V-1	0.090	

(A) The ventilator control system (Stack V-1) shall consist of a fan with a constant flow rate that draws air from the building through a HEPA filter which vents to the atmosphere through a stack. The HEPA filters shall be maintained and operated in order to achieve maximum control efficiency. In addition to the requirements contained in subsection (c), Hammond Lead Products, Inc. shall submit an operation and maintenance plan by July 31, 1990, which incorporates good housekeeping practices for the ventilator control systems. This operation and maintenance plan shall be incorporated into the operating permits for Hammond Lead Products, Inc. and submitted to U.S. EPA as a revision to Indiana's lead state implementation plan by December 31, 1990. The ventilator control systems shall be designed so that process fugitive emissions will not routinely escape the buildings except as vented through the ventilator control systems. The compliance test method specified in section 4(a) of this rule shall be used to determine compliance with the emission limitations for the ventilator control system stacks.

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(B) By December 31, 1989, the stack heights for all processes except Stack 16-S-56, Stack 1-S-52, and the ventilator control systems shall be no less than sixty (60) feet above grade; the stack heights for Stack 16-S-56 and Stack 1-S-52 shall be no less than eighty-two (82) feet above grade. By July 31, 1990, the stack heights for the other ventilator control systems shall be no less than sixty (60) feet above grade.

(C) Hammond Lead Products, Inc. shall install HEPA filters according to the following schedule:

Stack 4A-S-8	March 31, 1992
Stack 14-S-16	June 30, 1992
Stack 1-S-2	December 31, 1991
Stack 1-S-26	September 30, 1992
*Stack 16-S-56:	
130 bag filter	November 20, 1989
100 bag filter	December 6, 1989
80 bag filter	June 1, 1989
72 bag filter	December 31, 1991
Stack 1-S-52	December 31, 1989
Stack 1-S-27	August 15, 1987
Stack 4-S-35	October 16, 1989
Stack 6-S-33	July 22, 1988
Stack 4B-S-34	October 5, 1989
Stack 6-S-47	May 26, 1988

\*Four (4) bag filters are vented through common Stack 16-S-56.

(D) Hammond Lead Products, Inc. shall provide written notification to the commissioner within three (3) days after the installation of HEPA filters is completed at each of the sites listed in clause (A).

(E) All emission limitations in this subdivision shall be met by December 31, 1992.

(F) This subdivision shall be submitted to U.S. EPA as a revision to the Indiana state implementation plan.

Source	Emission Unit	Emission Limitation lbs/hr
(3) Hammond Group-Halstab Division	Stack S-1	0.04
	Stack S-2	0.03
	Stacks S-4, S-5 (each)	0.07
	Stacks S-6, S-7, S-8 (each)	0.05
	Stacks S-9, S-10, S-11 (each)	0.04
	S-12, S-13 (each)	0.04
	S-14, S-15, S-16 (each)	0.04
	Stacks S-17, S-21 (each)	0.07

(A) Hammond Group-Halstab Division shall install and maintain one (1) baghouse with laminated filters followed by one (1) HEPA filter in series with the baghouse on each of stacks S-1, S-2, S-4 through S-17, and S-21.

(B) Hammond Group-Halstab Division shall submit a proposed ambient monitoring and quality assurance plan within thirty (30) days of March 10, 1988.

(C) Hammond Group-Halstab Division shall commence ambient monitoring within thirty (30) days of the department's approval of the proposed ambient monitoring and quality assurance plan.

(D) Hammond Group-Halstab Division shall conduct a minimum of twenty-four (24) months of monitoring for lead. The monitoring shall be:

- (i) performed using U.S. EPA-approved methods, procedures, and quality assurance programs; and
- (ii) in accordance with the ambient monitoring and quality assurance plan as approved by the department.

(E) The requirement to monitor shall expire twenty-four (24) months from the commencement date of the monitoring provided the monitored values, averaged over a calendar quarter, do not exceed eighty percent (80%) of the National Ambient Air Quality Standards (NAAQS) level for lead in any quarter during twenty-four (24) months.

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(F) If the monitored values averaged over a calendar quarter exceed eighty percent (80%) of the NAAQS level for lead during the twenty-four (24) month period, monitoring shall be continued until eight (8) continuous quarters of monitored values do not exceed eighty percent (80%) of the NAAQS level for lead.

(G) If the monitored values, averaged over a calendar quarter, exceed eighty percent (80%) of the NAAQS level for lead for two (2) or more continuous quarters, the department and Hammond Group-Halstab Division shall analyze and assess causes of the emissions and determine whether changes to control requirements or operating practices are appropriate.

(b) In addition to the sources listed in subsection (a), C & D Batteries, Attica, shall comply with subsection (c) and section 3 of this rule.

(c) Operation and maintenance programs shall be designed to prevent deterioration of control equipment performance. For sources listed in subsection (a)(1) through (a)(3), these programs shall be submitted to the department on or before June 1, 1987. For the source listed in subsection (b), these programs shall be submitted to the department on or before February 1, 1988. These programs will be incorporated into the individual source operation permits. (*Air Pollution Control Division; 326 IAC 15-1-2; filed Mar 10, 1988, 1:20 p.m.: 11 IR 2564; errata filed Jul 6, 1988, 1:00 p.m.: 11 IR 3921; filed Jun 14, 1989, 5:00 p.m.: 12 IR 1850; filed Aug 8, 1991, 10:00 a.m.: 14 IR 2203; filed Dec 17, 1992, 5:00 p.m.: 16 IR 1379; errata filed Mar 10, 1993, 5:00 p.m.: 16 IR 1832; filed Mar 28, 1994, 5:00 p.m.: 17 IR 1878; errata, 17 IR 2080; filed May 31, 1994, 5:00 p.m.: 17 IR 2233; errata filed Jun 10, 1994, 5:00 p.m.: 17 IR 2356; filed Jan 6, 1999, 4:23 p.m.: 22 IR 1427; filed Dec 1, 2000, 2:22 p.m.: 24 IR 954; readopted filed Jan 10, 2001, 3:20 p.m.: 24 IR 1477; errata filed Dec 12, 2002, 3:30 p.m.: 26 IR 1565; filed Aug 26, 2004, 11:30 a.m.: 28 IR 95; filed Jan 30, 2013, 12:34 p.m.: [20130227-IR-326110774FRA](#))*

### 326 IAC 15-1-3 Control of fugitive lead dust

Authority: [IC 13-14-8](#); [IC 13-17-3-4](#)

Affected: [IC 13-17](#)

Sec. 3. All sources listed in section 2 of this rule shall comply with the following requirements:

(1) No source shall create or maintain outdoor storage of bulk materials containing more than one percent (1.0%) lead by weight of less than two hundred (200) mesh size particles.

(2) All materials containing more than one percent (1.0%) lead by weight of less than two hundred (200) mesh size particles shall be transported in closed containers or shall be transported by enclosed conveying systems that are vented to the atmosphere through particulate matter control equipment or shall be transported wet.

(3) Control programs shall be designed to minimize emissions of lead from all nonprocess fugitive emission points. The programs shall include good housekeeping practices for the cleanup of spills and for minimizing emissions from loading and unloading areas as applicable. For sources listed in section 2(a) of this rule, these programs shall be submitted to the department on or before June 1, 1987. For the source listed in section 2(b) of this rule, these programs shall be submitted to the department on or before February 1, 1988. These programs will be incorporated into the individual source operation permits.

(*Air Pollution Control Division; 326 IAC 15-1-3; filed Mar 10, 1988, 1:20 p.m.: 11 IR 2566; errata filed Jul 6, 1988, 1:00 p.m.: 11 IR 3921; filed Jun 14, 1989, 5:00 p.m.: 12 IR 1853; filed Dec 1, 2000, 2:22 p.m.: 24 IR 958; readopted filed Jan 10, 2001, 3:20 p.m.: 24 IR 1477; filed Jan 30, 2013, 12:34 p.m.: [20130227-IR-326110774FRA](#))*

### 326 IAC 15-1-4 Compliance

Authority: [IC 13-14-8](#); [IC 13-17-3-4](#)

Affected: [IC 13-17](#)

Sec. 4. Determination of compliance with the lead emission limitations established pursuant to section 2 of this rule shall be made in accordance with the procedures outlined in 40 CFR 60, Appendix A, Method 12,\* and 326 IAC 3-6, Source Sampling Procedures.

\*This document is incorporated by reference. Copies may be obtained from the Government Printing Office, 732 North Capitol Street NW, Washington, D.C. 20401 or are available for review and copying at the Indiana Department of Environmental Management, Office of Air Quality, Indiana Government Center North, Tenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204. (*Air Pollution Control Division; 326 IAC 15-1-4; filed Mar 10, 1988, 1:20 p.m.: 11 IR 2567; filed Jun 14, 1989, 5:00 p.m.:*

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*12 IR 1854; readopted filed Jan 10, 2001, 3:20 p.m.: 24 IR 1477; errata filed Dec 12, 2002, 3:35 p.m.: 26 IR 1571; filed Aug 26, 2004, 11:30 a.m.: 28 IR 98; filed Jan 30, 2013, 12:34 p.m.: [20130227-IR-326110774FRA](#))*

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