



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5  
77 WEST JACKSON BOULEVARD  
CHICAGO, IL 60604-3590

SEP 16 2013

REPLY TO THE ATTENTION OF:

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

Mr. Mark Sutton  
Environmental Manager  
Exide Technologies  
2601 West Mt. Pleasant Boulevard  
Muncie, Indiana 47302

Mr. Frederick Ganster  
Exide Technologies  
Director Environment, Health, & Safety  
2900 Montrose Ave  
Reading, Pennsylvania 19605

Re: Notice of Violation and Finding of Violation under 42 U.S.C. § 7413(a)(1) and (a)(3)

Dear Messrs. Sutton and Ganster:

The U.S. Environmental Protection Agency is issuing the enclosed Notice of Violation and Finding of Violation (NOV/FOV) to Exide Technologies (Exide) for violations of the Clean Air Act (CAA) identified at the facility located at 2601 West Mt. Pleasant Boulevard, Muncie Indiana (Facility). The NOV/FOV is issued in accordance with Sections 113(a)(1) and 113(a)(3) of the CAA, 42 U.S.C. § 7413(a)(1) and (a)(3).

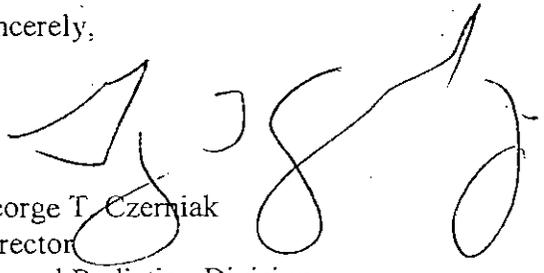
As outlined in the NOV/FOV, the EPA finds that Exide has violated the CAA, the Indiana State Implementation Plan (SIP), Title V Operating permits, and the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Secondary Lead Smelting, at the Facility. Section 113 of the CAA, 42 U.S.C. § 7413, gives us several enforcement options to resolve these violations. These options include issuing an administrative compliance order, issuing an administrative penalty order, and bringing a judicial civil action.

We are offering you an opportunity to confer with us about the violations alleged in the NOV/FOV. The conference will give you an opportunity to present information on the specific findings of violation, any efforts you have taken to comply, and the steps you will take to prevent future violations.

Please plan for your facility's technical and management personnel to attend the conference to discuss compliance measures and commitments. You may have an attorney represent you at this conference.

The EPA contact in this matter is Eleanor Kane. You may call her at (312) 353-4840 to request a conference. You should make the request within 10 calendar days following receipt of this letter. We should hold any conference within 30 calendar days following receipt of this letter.

Sincerely,

  
George T. Czerniak  
Director  
Air and Radiation Division

Enclosure

cc: Phil Perry, Chief  
Air Compliance and Enforcement Branch  
Indiana Department of Environmental Management

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5

IN THE MATTER OF: )

Exide Technologies )  
Muncie, Indiana )

) Proceeding Pursuant to the Clean Air Act,  
42 U.S.C. §§ 7401-7671q

) EPA-5-13-IN-13  
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**NOTICE AND FINDING OF VIOLATION**

The U.S. Environmental Protection Agency is issuing this Notice of Violation and Finding of Violation (NOV/FOV) to Exide Technologies (Exide or you) to notify you that we have found violations of the Clean Air Act, 42 U.S.C. § 7401-7671q (CAA), and the Indiana State Implementation Plan (SIP) at the facility located at 2601 West Mt. Pleasant Boulevard, Muncie, Indiana (Facility). The relevant statutory and regulatory background, factual background, alleged violations, and environmental impact of these violations are set forth in detail below.

This NOV/FOV is issued in accordance with Section 113(a)(1) and (a)(3) of the CAA, 42 U.S.C. § 7413(a)(1) and (a)(3), which authorize the Administrator to take certain enforcement actions after notifying a "person," as defined in Section 302(e) of the CAA, 42 U.S.C. § 7602(e), that it is in violation of the CAA. The authority to issue this NOV/FOV has been delegated by the Administrator to the Regional Administrator and re-delegated to the Director of the Air and Radiation Division for Region 5 of the EPA.

**Relevant Statutory and Regulatory Background**

**Recordkeeping, Inspections, Monitoring, and Entry**

1. Section 114 of the CAA, 42 U.S.C. § 7414(a), authorizes the Administrator of EPA to require the submission of information for purposes of determining whether any person is in violation of any such standard or any requirement of such a plan as included in a State Implementation Plan (42 U.S.C. § 7410) or associated with Hazardous Air Pollutants (42 U.S.C. § 7412).

**National Emission Standards for Hazardous Air Pollutants**

2. Section 112 of the CAA, 42 U.S.C. § 7412(c), requires the EPA to promulgate a list of all categories and subcategories of new and existing "major sources" of hazardous air pollutants (HAPs), and establish emissions standards for the categories and subcategories. These emission standards are known as the National Emission Standards for Hazardous Air Pollutants (NESHAP). The EPA codified these standards at 40 C.F.R. Parts 61 and 63.

3. 40 C.F.R. Part 63, Subpart A, contains the general provisions for the NESHAP.
4. “Stationary source” is defined as “any building, structure, facility, or installation, which emits or may emit any air pollutant.” 42 U.S.C. § 7411(a)(3).
5. “Hazardous air pollutant” is defined as “any air pollutant listed in or pursuant to” Section 112(b) of the CAA, and includes, among other pollutants, lead compounds. 42 U.S.C. § 7412(a)(6).
6. Section 112(i)(3) of the CAA, 42 U.S.C. § 7412(i)(3), prohibits any person subject to a NESHAP from operating a source in violation of a NESHAP after its effective date. *See also* 40 C.F.R. §§ 61.05 and 63.4.
7. 40 C.F.R. § 63.10(b) provides the General Recordkeeping Requirements for NESHAP regulations. These recordkeeping requirements include maintaining relevant records and information required to demonstrate compliance with a relevant standard.

#### The NESHAP for Secondary Lead Smelting

8. Pursuant to Section 112 of the CAA, the EPA promulgated the NESHAP for Secondary Lead Smelting at 40 C.F.R. Part 63, Subpart X, on June 23, 1995 (“the NESHAP”). 60 Fed. Reg. 32587. Amended at 62 Fed. Reg. 32216, June 17, 1997; 64 Fed. Reg. 4572, January 29, 1999; 64 Fed. Reg. 69643, December 14, 1999; 70 Fed. Reg. 75320, December 19, 2005; and 77 Fed. Reg. 555, January 5, 2012. It should be noted that the Facility’s compliance date for the amendments promulgated in 2012 is January 6, 2014, and that citations included in this NOV/FOV refer to the rule as amended on December 19, 2005.
9. The NESHAP applies to the following affected sources at all secondary lead smelters: blast, reverberatory, rotary, and electric smelting furnaces; refining kettles; agglomerating furnaces; dryers; process fugitive sources; and fugitive dust sources. 40 C.F.R. § 63.541(a).
10. 40 C.F.R. § 63.546(a) provides that the compliance date for an existing affected source is December 23, 1997.
11. 40 C.F.R. § 63.543(c) provides that no owner or operator of a secondary lead smelter with a collocated blast furnace and reverberatory furnace shall discharge or cause to be discharged into the atmosphere from any [...] existing blast furnace or reverberatory furnace any gases that contain total hydrocarbons in excess of 20 parts per million by volume, expressed as propane corrected to 4 percent carbon dioxide, except as allowed under 40 C.F.R. § 63.543(c)(1).
12. 40 C.F.R. § 63.543(c)(1) provides that no owner or operator of a secondary lead smelter with a collocated blast furnace and reverberatory furnace shall discharge or cause to be discharged into the atmosphere from any existing blast furnace any gases that contain total hydrocarbons in excess of 360 parts per million by volume, expressed as propane

corrected to 4 percent carbon dioxide, during periods when the reverberatory furnace is not operating.

13. 40 C.F.R. § 63.544(b) provides that process fugitive emission sources shall [...] be located in a total enclosure subject to general ventilation that maintains the building at a lower than ambient pressure to ensure in-draft through any doorway opening.
14. 40 C.F.R. § 63.544(c) requires that ventilation air from all enclosures hoods and total enclosures shall be conveyed to a control device. Gases discharged to the atmosphere from these control devices shall not contain lead compounds in excess of 2.0 milligrams of lead per dry standard cubic meter (mg/dscm).
15. 40 C.F.R. § 63.545(a) provides that each owner or operator of a secondary lead smelter shall prepare and at all times operate according to a standard operating procedures manual that describes in detail the measures that will be put in place to control fugitive dust emission sources within plant roadways, battery breaking area, furnace area, refining and casting area, and materials storage and handling area.
16. 40 C.F.R. § 63.545(e) states that no owner or operator of a secondary lead smelter shall discharge or cause to be discharged into the atmosphere from any building or enclosure ventilation system any gases that contain lead compounds in excess of 2.0 mg/dscm.
17. 40 C.F.R. § 63.547(e)(2)(iv) states that owners and operators shall demonstrate that the inside of the building is maintained at a negative pressure as compared to the outside of the building of no less than 0.02 millimeters of mercury (mm Hg) when all doors are in the position they are in during normal operation.
18. 40 C.F.R. § 63.548(a) provides that owners and operators of secondary lead smelters shall prepare, and at all times operate according to, a standard operating procedures manual that describes in detail procedures for inspection, maintenance, and bag leak detection and corrective action plans for all baghouses (fabric filters) that are used to control process, process fugitive, or fugitive dust emissions from any source subject to the lead emission standards in §§ 63.543, 63.544, and 63.545, including those used to control emissions from building ventilation.
19. 40 C.F.R. § 63.548(j)(2)(i) provides that the owner or operator of a blast furnace or collocated blast furnace and reverberatory furnace subject to the THC standards in § 63.543 (c), must install, operate, and maintain a THC continuous monitoring system [...], to demonstrate continuous compliance with the THC emission standards.
20. 40 C.F.R. § 63.548(j)(2)(iii) provides that allowing the 3-hour average THC concentration to exceed the applicable THC emission limit under § 63.543 shall constitute a violation of the applicable emission standard for THC under § 63.543(c).
21. 40 C.F.R. § 63.550(a)(3) provides that the owner or operator of a secondary lead smelter must record and maintain records of the output from the THC continuous monitoring system for a period of 5 years. These records shall include an identification of the

periods when the 3-hour average THC concentration exceeded the applicable standard, and an explanation of the corrective actions taken.

22. 40 C.F.R. § 63.550(a)(5) provides that each owner or operator of a secondary lead smelter must record and maintain any recordkeeping required as part of the practices described in the standard operating procedures manual for baghouses required under § 63.548(a) for a period of 5 years.
23. 40 C.F.R. § 63.550(c)(3)(ii) provides that the reports required to comply with the recordkeeping and reporting requirements at § 63.550 shall include a record of the THC concentration, in 3-hour block averages, for those periods when the THC concentration being monitored pursuant to § 63.548(j)(2) exceeds the relevant limits established in § 63.543 (c).
24. 40 C.F.R. § 63.541(b) states that 40 C.F.R. § 63.10 applies to the NESHAP.

#### Title V Requirements

25. Title V of the CAA, 42 U.S.C. §§ 7661-7661f, established an operating permit program for major sources of air pollution. Section 502(d)(1) of the CAA, 42 U.S.C. § 7661a(d)(1) requires each state to develop and submit to EPA an operating permit program which meets the requirements of Title V. Pursuant to Appendix A of 40 C.F.R. Part 70, on December 4, 2001, EPA granted Indiana final approval of its Title V Clean Air Act Permit Program, effective November 30, 2001. 66 Fed. Reg. 62969.
26. 40 C.F.R. § 70.2 defines “major source” as, among other things, any stationary source that directly emits, or has the potential to emit, 100 tons per year or more of any air pollutant subject to regulation.
27. Indiana’s Title V operating permit program regulations are codified at 326 IAC 2-7, and are federally enforceable pursuant to Section 113(a)(3) of the CAA, 42 U.S.C. § 7413(a)(3).
28. 40 C.F.R. § 70.6(b)(1) provides that Title V permits are federally enforceable and that all terms and conditions in a Title V permit are enforceable by the EPA.
29. 40 C.F.R. § 70.5(a) provides that “for each part 70 source, the owner or operator shall submit a timely and complete permit application in accordance with this section.”
30. 40 C.F.R. § 70.5(c) provides the information that is to be provided in a permit application for that application to be considered complete. The required information includes all emissions of pollutants for which the source is major, and all emissions of regulated air pollutants. A permit application shall describe all emissions of regulated air pollutants emitted from any emissions unit, except where such units are exempted under this paragraph (c) of this section.

31. 40 C.F.R. § 70.5(d) requires that the permit application contain certification by a responsible official of truth, accuracy, and completeness.

Exide's Title V Permits

32. The Indiana Department of Environmental Management (IDEM) issued a modified Part 70 Operating Permit, No.: 035-26410-00028 (September 2008 Title V Permit) to the Facility on September 12, 2008. This permit incorporates by reference the NESHAP for Secondary Lead Smelting in Section E.
33. IDEM issued an amended Part 70 Operating Permit, No.: 035-28360-00028 (August 2009 Title V Permit) to the Facility on August 25, 2009. This permit incorporates by reference the NESHAP for Secondary Lead Smelting in Section E.
34. IDEM issued an amended Part 70 Operating Permit, No.: 035-29201-00028 (May 2010 Title V Permit) to the Facility on August 5, 2010. This permit incorporates by reference the NESHAP for Secondary Lead Smelting in Section E.
35. IDEM issued a Part 70 Operating Permit Renewal, No.: 035-31230-00028 (August 2012 Title V Permit) to the Facility on August 1, 2012. This permit incorporates by reference the NESHAP for Secondary Lead Smelting in Section E.
36. The significant emission units in the September 2008 Title V Permit, August 2009 Title V Permit, May 2010 Title V Permit, August 2012 Title V Permit (collectively "Title V Permits") and the associated emission capture equipment relevant to this NOV/FOV are:

Emission Unit	Description	Commenced Construction	Emission Control Equipment
1	Lead-Battery Crusher/Breaker	1989	Venturi Scrubber
3	Rotary Dryer	1989	Rotary Dryer Baghouse
4	Lead Reverberatory Furnace	1989	Process Baghouse, followed by North and South Sodium Carbonate Packed Tower Scrubbers
5	Blast (Cupola) Furnace	1973	Process Baghouse, followed by North and South Sodium Carbonate Packed Tower Scrubbers
6K1 – 6K12	Pot Furnaces	1973-1989	Refinery Baghouse
7	Lead Pig Casting Machines	1989	Refinery Baghouse
9	Material Handling, including Slag Crusher and Strip Casting Machine	1997	Bin Room Baghouse, according to Title V Permits

Emission Unit	Description	Commenced Construction	Emission Control Equipment
N/A	Charge Point Hoods on Reverberatory and Blast Furnace	N/A	Ventilation Baghouse

37. Condition D.1.2 of Title V Permits states that lead emission from the rotary dryer, controlled by the rotary dryer baghouse, shall be limited to 0.5 mg/dscm; lead emissions from the reverberatory furnace and blast furnace charging hood emission, controlled by the ventilation baghouse, shall be limited to 0.5 mg/dscm; and lead emissions from the reverberatory furnace and blast furnace, controlled by the process baghouse followed by the North and South sodium carbonate packed tower scrubbers, shall be limited to 1.0 mg/dscm.
38. Conditions D.1.7(a)(4) and (5) of the May 2010 Title V Permit state that in order to demonstrate compliance with the lead limits in Condition D.1.2, the Permittee shall conduct lead testing at the rotary dryer every twelve calendar months or, if the compliance test demonstrates the lead compounds of 0.25 mg/dscm, or less during the compliance test, the Permittee shall be allowed up to twenty four (24) calendar months to the next compliance test.
39. Condition D.1.8(f) of the September 2008, August 2009, and May 2010 Title V Permits and Condition D.1.8(e) of the August 2012 Title V Permit require that pursuant to 326 Indiana Administrative Code (IAC) 20-13-7, ventilation air from all enclosure hoods and total enclosures, and all dryer emission vents shall be conveyed or ventilated to a control device.
40. Condition D.1.13 of the Title V Permits requires, pursuant to 326 IAC 20-13-8, that the owner or operator of a secondary lead smelter operate a bag leak detection system (BLDS) for all baghouses controlling process and fugitive sources and lays out detailed requirements for monitoring the BLDS.
41. Condition D.1.14(e) of the Title V Permits states that, pursuant to 326 IAC 20-13-8, and to document compliance with the BLDS monitoring requirements in D.1.13, records of BLDS operations shall be maintained on site for a period of three years and be available for an additional two years. Those records shall include BLDS output, identification of the date and time of all BLDS alarms, the time that procedures to determine the cause of the alarm were initiated, the cause of the alarm, an explanation of the actions taken, the date and time the alarm was corrected, records of the total operating time of an affected source during smelting operations for each six month period, and once per day visible emission notations of the stack exhaust.
42. Condition D.2.2 of the Title V Permits states that lead emission from the lead pig casting machines and pot furnaces, controlled by the refinery baghouse, shall be limited to 0.5 mg/dscm.

43. Condition D.2.7(f) of the September 2008, August 2009, and May 2010 Title V Permits and Condition D.2.7(e) of the August 2012 Title V Permit provide that, pursuant to 326 IAC 20-13-7, ventilation air from all enclosure hoods and total enclosures, and all dryer emission vents shall be conveyed or ventilated to a control device.
44. Condition 2.9 of the Title V Permits requires that, pursuant to 326 IAC 20-13-8, the owner or operator of a secondary lead smelter must operate a BLDS for all baghouses controlling process and fugitive sources and lays out detailed requirements for monitoring a BLDS.
45. Condition D.2.10(a) of the Title V Permits states that pursuant to 326 IAC 20-13-8 and to document compliance with the BLDS monitoring requirements in D.2.9, records for the BLDS shall be maintained on site for a period of three years and be available for an additional two years. Those records shall include: records of BLDS output, identification of the date and time of all BLDS alarms, the time that procedures to determine the cause of the alarm was initiated, the cause of the alarm, an explanation of the actions taken, the date and time the alarm was corrected, records of the total operating time of an affected source during smelting operations for each six month period, and once per day visible emission notations of the stack exhaust.
46. Condition D.3.2 of the Title V Permits provides that lead emission from the battery crusher/breaker, controlled by the venturi scrubber, shall be limited to 0.5 mg/dscm and that lead emission from the material handling, controlled by the bin room baghouse, shall be limited to 0.5 mg/dscm.
47. Condition D.3.7(f) of the September 2008, August 2009, and May 2010 Title V Permits and Condition D.3.7(e) of the August 2012 Title V Permit provide that pursuant to 326 IAC 20-13-8, ventilation air from all enclosure hoods and total enclosures, and all dryer emission vents shall be conveyed or ventilated to a control device.
48. Condition 3.11 of the Title V Permits requires, pursuant to 326 IAC 20-13-8, that the owner or operator of a secondary lead smelter must operate a BLDS for all baghouses controlling process and fugitive sources and lays out detailed requirements for monitoring a BLDS.
49. Condition D.3.12(c) of the Title V Permits states that pursuant to 326 IAC 20-13-8 and to document compliance with the BLDS monitoring requirements in D.3.11, records for BLDS shall be maintained on site for a period of three years and be available for an additional two years. Those records shall include records of BLDS output, identification of the date and time of all BLDS alarms, the time that procedures to determine the cause of the alarm was initiated, the cause of the alarm, an explanation of the actions taken, the date and time the alarm was corrected, records of the total operating time of an affected source during smelting operations for each six month period, and once per day visible emission notations of the stack exhaust.

### Requirements of the Indiana State Implementation Plan

50. Section 110 of the CAA, 42 U.S.C. § 7410, requires each state to adopt and submit to the EPA a plan that provides for the implementation, maintenance, and enforcement of primary and secondary National Ambient Air Quality Standards in the state. Upon approval by the EPA, the plan becomes part of the applicable State Implementation Plan (SIP) for the state.
51. On November 14, 1995, the EPA approved the Indiana SIP requirement at Title 326 IAC 2-7-3 (effective Dec 14, 1995). 60 Fed. Reg. 57188.
52. 326 IAC 2-7-3 provides that it is unlawful to violate any requirement of a permit issued under Title V or to operate a major source except in compliance with a permit issued by a permitting authority under Title V.
53. On November 14, 1995, the EPA approved the Indiana SIP requirement at Title 326 of the IAC 2-7-4 and 2-7-5 (effective Dec 14, 1995). 60 Fed. Reg. 57188.
54. 326 IAC 2-7-4 requires that a source submit a complete permit application which, among other things, identifies all applicable requirements and certifies compliance with all applicable requirements.
55. 326 IAC 2-7-5 provides that each Title V permit must include, among other things, enforceable emission limitations and standards as are necessary to assure compliance with applicable requirements of the CAA and the requirements of the applicable SIP.

### Relevant Factual Background

56. Exide owns and operates a stationary secondary lead smelting operation located at 2601 West Mt. Pleasant Boulevard, Muncie, Indiana (the Facility).
57. The Facility is a secondary lead smelter and is therefore subject to the requirements of the NESHAP for Secondary Lead Smelting (40 C.F.R., Part 63, Subpart X).
58. On April 23, 2012, EPA conducted an inspection at the Facility.
59. On June 20, 2012 (June 2012 Information Request) and February 27, 2013 (February 2013 Information Request), EPA issued information requests to Exide pursuant to Section 114 of the CAA, 42 U.S.C. § 7414 (jointly, the Section 114 Information Requests).
60. Exide submitted partial responses to the June 20, 2012 Information Request on August 31, 2012 and September 14, 2012.
61. Exide submitted partial responses to the February 27, 2013 Information Request on April 12, 2013; May 10, 2013; and June 5, 2013.

62. In response to Item 8 of the June 2012 Information Request and Item 3(a) of the February 2013 Information Request, Exide did not provide copies of any completed inspection, maintenance, and repair logs for the venturi scrubber at the facility from January 2000 to the present.
63. In response to Item 9(f) of the June 2012 Information Request and Item 4 of the February 2013 Information Request, Exide did not provide copies of any completed inspection, maintenance, and repair logs for the North and South sodium carbonate packed tower scrubbers at the facility from January 2000 to the present.
64. In response to the information requests, Exide stated that the Facility is using the compliance option set forth in 40 C.F.R. § 63.548(j)(2) on the collocated blast furnace and reverberatory furnace subject to the THC standards in 40 C.F.R. § 63.543.
65. In response to the information requests, Exide provided 3-hour average THC continuous emission monitoring system (CEMS) outputs for emissions from the collocated blast furnace and reverberatory furnace.
66. In response to Item 16 of the June 2012 Information Request, Exide failed to provide furnace operation logs stating furnace configuration during every 3 – hour block. Additionally, Exide did not provide the furnace configuration (i.e, which furnaces were operating in order to establish a THC emission limit) during every 3-hour block when the concentration was above 20 ppmv.
67. At various times from September 2008 to the present, Exide discharged into the atmosphere gases that contained THC in excess of 20 ppmv when both the collocated blast furnace and reverberatory furnace were operating. See Attachment A.
68. The exceedances in Attachment A were not identified as periods of exceedance in the records Exide submitted in response to Item 16 of the June 2012 Information Request nor were they included in quarterly NESHAP compliance reports sent to EPA and IDEM.
69. At various times from September 2008 to the present, Exide discharged into the atmosphere gases that contain THC in excess of 20 ppmv and did not provide the furnace operating configuration during the exceedances. See Attachment B.
70. In response to Item 11 of the June 2012 Information Request and Item 6 of the February 2012 Information Request, Exide did not provide the following BLDS records: BLDS output, the time that procedures to determine the cause of the alarm were initiated, explanation of the action taken, and the date and time the alarm was corrected.
71. In response to the Section 114 information requests, Exide provided a Fugitive Dust Plan, pursuant to the requirements of 40 C.F.R. § 63.545(a), which stated that the main smelter building (battery breaking area, furnace area, refining and casting area, and materials storage and handling area) is to be maintained under constant negative pressure.

72. In response to the Section 114 information requests, Exide provided daily negative pressure logs from September 2008 to the present. The records indicate that the inside of the building was not maintained at a negative pressure as defined by 40 C.F.R. § 63.547(e)(2)(iv) for many periods between June 9, 2009 and July 25, 2012. A summary of the days when the building was not maintained at a negative pressure (i.e. positive pressure) is provided in the following table, as well as, Attachment C.

Year	Number of Days with Positive Pressure	Percentage of Year with Positive Pressure
2009	30	8%
2010	54	15%
2011	127	35%
2012 <sup>1</sup>	70	34%

Notes: 1. Exide provided data through July 27, 2012 (209 days)

73. In response to the Section 114 information requests, Exide provided data containing lead concentrations generated for Occupational Safety and Health (OSHA) compliance for various portions of the Facility. The measured concentration of lead frequently exceeded 0.5 milligrams/cubic meter with a maximum recorded concentration of 48.387 milligrams/cubic meter. See Attachment D.
74. For the purposes of satisfying the requirements of its Title V Permits, Exide conducted a performance test on the rotary dryer baghouse on June 26, 2008. Exide performed the next compliance test on the rotary dryer baghouse on June 26 – 27, 2012.
75. During the inspection and in response to the Section 114 information requests, Exide stated that emissions from the building west of the main smelting building are controlled by the RLS baghouse, equipped with a HEPA filter.

### **Notice and Finding of Violations**

#### **Violations of the Recordkeeping, Inspections, Monitoring, and Entry Provision of the CAA**

76. Exide's failures to provide EPA with the inspection, maintenance and repair logs for the facility's baghouses, venturi scrubber, and North and South sodium carbonate packed tower scrubbers, as requested in the Section 114 Information Requests, constitute violations of Section 114(a) of the CAA, U.S.C. § 7414(a).
77. Exide's failures to provide EPA with BLDS records, as requested in the Section 114 Information Requests, constitutes a violation of Section 114(a) of the CAA, U.S.C. § 7414(a).
78. Exide's failure to provide EPA with furnace configuration during each 3-hour block of THC CEMS data, as requested in the Section 114 Information Request, constitutes a violation of Section 114(a) of the CAA, U.S.C. § 7414(a).

### Violations of the General Provisions and NESHAP for Secondary Lead Processing

79. By failing to provide copies of all completed inspection, maintenance, and repair logs for each baghouse at the facility; Exide failed to demonstrate that the facility is operating according to its standard operating procedures manual that describes procedures for inspection and maintenance for all baghouses as required by 40 C.F.R. § 63.548(a) and has failed to record and maintain any recordkeeping required as part of the practices described in the standard operating procedures manual for baghouses as required by 40 C.F.R. § 63.550(a)(5).
80. By allowing the 3-hour average THC concentration to exceed the applicable THC emission limit under 40 C.F.R. § 63.543, Exide violated the applicable emission standard for THC under § 63.543 (c)(1), in accordance with 40 C.F.R. § 63.548(j)(2)(iii), and has violated the recordkeeping requirements of 40 C.F.R. § 63.550(a)(3) and reporting requirements of 40 C.F.R. § 63.550(c)(3). See Attachment A.
81. By allowing the 3-hour average THC concentration (measured by a THC continuous monitoring system) to exceed the emission limit under 40 C.F.R. § 63.543(c)(1) and failing to provide the furnace operating configuration during these exceedances, Exide failed to demonstrate continuous compliance with the THC emission standards under 40 C.F.R. § 63.543(c)(1) and § 63.543(d). See Attachment B.
82. By failing to record and provide the blast furnace and reverberatory operating configuration to demonstrate compliance with THC emission standards, Exide violated the recordkeeping requirements of 40 C.F.R. § 63.10(b).
83. By failing to maintain a negative pressure inside the main smelting building as defined by 40 C.F.R. 63.547(e)(2)(iv), Exide violated 40 C.F.R. § 63.544(b) and 40 C.F.R. § 63.545(a). See Attachment C.
84. By failing to maintain a negative pressure inside the main smelting building as defined by 40 C.F.R. 63.547(e)(2)(iv), and based on the OSHA compliance data, Exide violated 40 C.F.R. § 63.545(e). See Attachments C and D.
85. Exide's failures to satisfy the requirements of 40 C.F.R. Part 63, Subparts A and X, constitute violations of Section 112(i)(3) of the CAA, 42 U.S.C. § 7412(i)(3).

### Violations of the Title V Permits, and the Indiana SIP

86. As evidenced by the OSHA compliance data and Exide's failure to continuously maintain a negative pressure inside the main smelter building, Exide violated on numerous occasions Condition D.1.2, Condition D.2.2, and Condition D.3.2 of the Title V Permits. See Attachments C and D.

87. By failing to conduct a performance test on the rotary dryer baghouse in 2010, Exide violated Condition D.1.7(a)(4) and (5) of the May 2010 Title V Permit and failed to demonstrate compliance with the emission limits at Condition D.1.2 of the May 2010 Title V Permit.
88. By failing to maintain a negative pressure inside the main smelter building, Exide violated Condition D.1.8(f), D.2.7(f), and D.3.7(f) of the Title V Permits. See Attachments C.
89. By failing to provide the BLDS records for each baghouse, Exide violated Condition D.1.14(e), D.2.10(a), and D.3.8(c) of the Title V Permits and failed to demonstrate compliance with D.1.13, D.2.9, and D.3.11 of the Title V Permits.
90. By failing to include the RLS baghouse in permit applications and failing to submit corrected information, Exide violated 40 C.F.R. § 70.5(a), 70.5(c), and 70.5(d).
91. By failing to include the RLS baghouse in permit applications and failing to submit corrected information, Exide violated 326 IAC 2-7-4 and 2-7-5.

#### **Environmental Impact of Violations**

92. Exide's violations have resulted in increased emissions of lead. Information available to EPA suggests that the violations within have caused the ambient air quality monitor operated by IDEM adjacent to the facility to exceed the National Ambient Air Quality Standard of 0.15 micrograms of lead per cubic meter, based on 3-month rolling average lead concentrations. Based on this data, EPA designated the area surrounding the facility as non-attainment for lead.

#### **Human Health**

Lead can affect almost every organ in the body, but is most detrimental to the nervous system. In children, low levels of lead in the blood can result in permanent damage to the brain and nervous system, leading to behavior and learning problems, lower IQ, hearing problems, slowed growth, and anemia. In adults, lead has nervous system effects, cardiovascular effects, and causes decreased kidney function. Lead can also lead to reproductive problems for both men and women and has serious effects on pregnancy and developing fetuses.

#### **Environment**

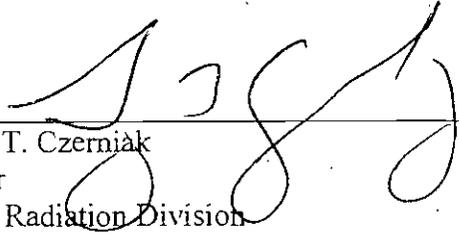
Lead is persistent in the environment and accumulates in soils and sediments through deposition from air sources, direct discharge of waste streams to water bodies, mining, and erosion. Ecosystems near point sources of lead demonstrate a wide range of adverse effects including losses in biodiversity, changes in community composition, decreased growth and reproductive rates in plants and animals, and neurological effects in vertebrates.

93. Exide's violations resulted in increase emissions of THC, a surrogate for non-dioxin organic HAPs. Organic HAP's emitted by secondary lead smelters include carbon disulfide, 1,3-butadiene, methyl chloride, benzene, styrene, toluene, formaldehyde, and naphthalene. Chronic benzene exposure is associated with aplastic anemia (a risk factor for acute nonlymphocytic leukemia), excessive bleeding, and damage to the immune system (by changes in blood levels of antibodies and loss of white blood cells).

Date

9/16/13

George T. Czerniak  
Director  
Air and Radiation Division



### Attachment A

Exide total hydrocarbon (THC) emissions exceedences when the collocated blast furnace and reverberatory furnace were both operating. THC emissions are reported in parts per million (ppm) and are corrected to 4% CO<sub>2</sub>. Collected from THC logs provided in response to a Section 114 Information Request.

Date	Hours	THC emissions (ppm)	Date	Hours	THC emissions (ppm)
9/14/2008	21-23	41.183	1/23/2012	18-20	20.135
11/10/2008	3-5	38.334	1/29/2012	0-2	22.94
12/3/2008	15-17	26.596	2/26/2012	15-17	34.924
12/16/2008	21-23	30.347	3/2/2012	0-2	23.14
12/17/2008	0-2	51.833	3/23/2009	15-17	47.077
12/17/2008	3-5	50.74	3/29/2012	18-20	36.306
1/7/2009	15-17	45.126	3/29/2012	21-23	66.094
1/7/2009	18-20	34.317	3/30/2012	12-14	143.023
1/8/2009	0-2	23.321	4/24/2012	9-11	29.628
1/8/2009	3-5	39.135	5/3/2012	9-11	22.561
1/12/2009	6-8	20.672	5/3/2012	12-14	27.53
1/23/2009	12-14	41.06	5/4/2012	0-2	34.824
1/23/2009	15-17	24.514	5/6/2012	18-20	33.261
3/11/2009	12-14	28.792	5/7/2012	3-5	58.193
3/12/2009	3-5	35.786	5/8/2012	9-11	29.58
3/23/2009	9-11	39.357	5/14/2012	0-2	22.845
3/23/2009	12-14	58.165	5/14/2012	12-14	27.632
3/23/2009	15-17	47.077	5/26/2012	15-17	39.999
2/28/2011	6-8	25.114	6/28/2012	12-14	28.374
2/28/2011	9-11	22.681	6/28/2012	15-17	33.311
2/28/2011	12-14	22.452	6/28/2012	18-20	79.91
3/8/2011	15-17	170.949	6/28/2012	21-23	39.942
3/8/2011	21-23	20.504	6/29/2012	0-2	50.245
4/30/2011	0-2	54.549	6/29/2012	3-5	35.774
1/23/2012	12-14	81.697	6/29/2012	6-8	23.111
1/23/2012	15-17	35.127			

**Attachment B**

Exide total hydrocarbon (THC) emissions potential exceedences for which the operating status of the collocated blast furnace and reverberatory furnace was not recorded. THC emissions are reported in parts per million (ppm) and are corrected to 4% CO<sub>2</sub>.

<b>Date</b>	<b>Hours</b>	<b>THC emissions (ppm)</b>	<b>Date</b>	<b>Hours</b>	<b>THC emissions (ppm)</b>
9/4/2008	3-5	79.683	10/25/2008	9-11	43.139
9/4/2008	18-20	51.837	10/25/2008	12-14	31.374
9/6/2008	9-11	48.689	11/1/2008	18-20	43.557
9/6/2008	12-14	49.002	11/4/2008	15-17	26.559
9/7/2008	6-8	25.264	11/5/2008	0-2	29.151
9/16/2008	9-11	25.408	11/6/2008	0-2	22.729
9/19/2008	9-11	147.105	11/8/2008	6-8	34.586
9/19/2008	12-14	46.813	11/8/2008	9-11	28.373
9/19/2008	15-17	35.732	11/8/2008	12-14	228.339
9/19/2008	18-20	23.206	11/8/2008	18-20	58.349
9/19/2008	21-23	62.657	11/8/2008	21-23	37.343
9/24/2008	15-17	100.804	11/9/2008	0-2	55.876
9/24/2008	18-20	30.031	11/9/2008	3-5	22.318
9/25/2008	6-8	94.533	11/9/2008	15-17	21.332
9/25/2008	9-11	270.142	11/9/2008	18-20	37.339
9/25/2008	12-14	36.85	11/9/2008	21-23	23.107
9/26/2008	3-5	22.056	11/10/2008	6-8	24.851
9/27/2008	15-17	31.453	11/10/2008	9-11	20.138
10/1/2008	0-2	26.441	11/15/2008	15-17	24.316
10/2/2008	6-8	39.452	11/15/2008	3-5	40.62
10/3/2008	6-8	28.853	11/15/2008	15-17	21.08
10/13/2008	12-14	31.023	11/15/2008	18-20	39.395
10/14/2008	6-8	26.696	11/15/2008	21-23	34.187
10/15/2008	12-14	22.563	11/17/2008	3-5	40.62
10/15/2008	18-20	65.221	11/17/2008	15-17	21.08
10/15/2008	21-23	32.336	11/17/2008	18-20	39.395
10/16/2008	15-17	358.913	11/17/2008	21-23	34.187
10/16/2008	18-20	110.615	11/18/2008	15-17	23.11
10/16/2008	21-23	89.879	11/19/2008	18-20	57.522
10/17/2008	0-2	95.13	11/19/2008	21-23	76.055
10/17/2008	3-5	204.232	11/20/2008	0-2	23.198
10/23/2008	3-5	48.789	11/20/2008	3-5	23.39
10/24/2008	18-20	26.716	11/20/2008	9-11	47.821

Date	Hours	THC emissions (ppm)	Date	Hours	THC emissions (ppm)
11/20/2008	18-20	43.328	12/24/2008	15-17	31.348
11/21/2008	21-23	23.359	12/24/2008	18-20	35.085
11/25/2008	3-5	26.57	12/24/2008	21-23	85.689
11/27/2008	21-23	20.554	12/25/2008	0-2	85.191
11/28/2008	6-8	20.313	12/25/2008	3-5	100.239
11/28/2008	9-11	20.236	12/25/2008	6-8	243.634
11/28/2008	12-14	22.217	12/25/2008	9-11	108.431
11/28/2008	15-17	24.628	12/25/2008	15-17	25.555
11/28/2008	18-20	24.134	12/25/2008	18-20	31.709
11/28/2008	21-23	21.733	12/25/2008	21-23	22.394
11/29/2008	9-11	20.06	12/26/2008	0-2	46.128
12/4/2008	6-8	25.587	12/26/2008	3-5	47.38
12/10/2008	0-2	21.652	12/26/2008	6-8	28.107
12/11/2008	12-14	77.613	12/28/2008	3-5	37.57
12/11/2008	15-17	90.169	12/28/2008	6-8	119.443
12/11/2008	18-20	56.587	12/28/2008	9-11	31.217
12/11/2008	21-23	48.511	12/28/2008	15-17	28.054
12/12/2008	0-2	47.115	12/29/2008	0-2	22.761
12/12/2008	6-8	86.014	12/29/2008	3-5	28.737
12/12/2008	9-11	137.859	12/29/2008	6-8	27.03
12/12/2008	12-14	45.785	12/29/2008	18-20	54.122
12/12/2008	15-17	193.859	12/29/2008	21-23	36.36
12/12/2008	18-20	92.241	12/30/2008	0-2	55.957
12/12/2008	21-23	66.67	12/30/2008	9-11	25.215
12/13/2008	9-11	40.912	12/30/2008	18-20	47.131
12/13/2008	0-2	81.647	12/30/2008	21-23	45.216
12/13/2008	3-5	34.487	12/31/2008	0-2	51.147
12/18/2008	6-8	23.175	12/31/2008	3-5	40.695
12/18/2008	21-23	44.553	12/31/2008	9-11	83.669
12/19/2008	6-8	29.026	12/31/2008	15-17	54.213
12/22/2008	0-2	76.441	12/31/2008	18-20	175.468
12/22/2008	3-5	54.089	12/31/2008	21-23	36.067
12/22/2008	6-8	51.575	1/1/2009	6-8	59.081
12/22/2008	9-11	40.975	1/1/2009	9-11	79.713
12/22/2008	12-14	37.096	1/9/2009	6-8	24.158
12/22/2008	15-17	28.877	1/9/2009	12-14	30.196
12/22/2008	21-23	40.214	1/10/2009	12-14	24.96
12/24/2008	3-5	20.466	1/10/2009	18-20	26.72
12/24/2008	9-11	36.238	1/10/2009	21-23	49.482
12/24/2008	12-14	30.646	1/11/2009	0-2	45.46

Date	Hours	THC emissions (ppm)	Date	Hours	THC emissions (ppm)
1/11/2009	3-5	57.943	2/19/2009	9-11	65.389
1/11/2009	15-17	48.602	2/25/2009	21-23	159.671
1/11/2009	21-23	197.539	2/26/2009	0-2	37.334
1/12/2009	0-2	125.425	2/26/2009	3-5	39.96
1/12/2009	3-5	76.031	2/26/2009	6-8	116.775
1/13/2009	18-20	37.341	2/26/2009	9-11	151.494
1/16/2009	9-11	40.065	2/26/2009	12-14	101.648
1/16/2009	12-14	20.394	2/27/2009	6-8	34.877
1/17/2009	0-2	27.309	2/27/2009	9-11	28.616
1/18/2009	3-5	31.533	2/28/2009	18-20	29.083
1/18/2009	18-20	46.317	3/2/2009	6-8	20.426
1/20/2009	9-11	51.673	3/5/2009	9-11	25.133
1/22/2009	0-2	21.118	3/6/2009	12-14	31.144
1/22/2009	6-8	24.755	3/9/2009	18-20	29.853
1/22/2009	15-17	204.957	3/10/2009	15-17	22.319
1/24/2009	9-11	21.904	3/10/2009	21-23	73.594
1/25/2009	6-8	26.916	3/12/2009	12-14	82.201
1/25/2009	9-11	35.423	3/13/2009	21-23	50.168
1/28/2009	12-14	113.908	3/23/2009	9-11	39.357
1/28/2009	15-17	74.958	3/23/2009	15-17	58.165
2/2/2009	21-23	34.493	3/26/2009	9-11	25.19
2/3/2009	0-2	27.861	3/30/2009	6-8	42.141
2/3/2009	3-5	21.796	3/30/2009	9-11	72.251
2/4/2009	0-2	44.65	4/3/2009	9-11	54.503
2/5/2009	21-23	28.453	4/3/2009	12-14	22.771
2/6/2009	6-8	125.975	4/5/2009	18-20	35.195
2/8/2009	18-20	45.534	4/6/2009	12-14	21.23
2/8/2009	21-23	82.597	4/8/2009	6-8	50.648
2/9/2009	0-2	98.869	4/8/2009	9-11	58.611
2/9/2009	3-5	48.581	4/8/2009	0-2	36.973
2/12/2009	9-11	35.272	4/9/2009	12-14	35.575
2/12/2009	15-17	41.064	4/9/2009	18-20	27.732
2/12/2009	18-20	31.999	4/9/2009	21-23	40.428
2/14/2009	3-5	26.353	4/12/2009	6-8	40.186
2/17/2009	12-14	31.91	4/12/2009	9-11	89.676
2/17/2009	15-17	137.865	4/12/2009	12-14	46.832
2/17/2009	21-23	71.535	4/12/2009	18-20	37.881
2/18/2009	0-2	22.373	4/25/2009	18-20	64.361
2/18/2009	18-20	163.589	4/25/2009	21-23	64.996
2/18/2009	21-23	77.018	4/26/2009	0-2	42.277

Date	Hours	THC emissions (ppm)	Date	Hours	THC emissions (ppm)
4/26/2009	3-5	31.549	9/22/2009	15-17	39.069
4/26/2009	6-8	20.24	9/29/2009	21-23	20.02
4/27/2009	0-2	32.443	10/9/2009	9-11	94.641
4/27/2009	3-5	37.939	10/9/2009	12-14	20.833
4/27/2009	6-8	38.426	10/9/2009	15-17	20.632
4/27/2009	9-11	44.1	10/28/2009	18-20	22.929
4/27/2009	12-14	23.839	11/17/2009	18-20	22.561
4/27/2009	15-17	23.25	12/1/2009	18-20	27.341
4/27/2009	18-20	26.799	12/2/2009	3-5	22.708
4/27/2009	21-23	23.925	12/22/2009	12-14	47.896
4/28/2009	0-2	21.094	12/22/2009	15-17	48.1
4/28/2009	3-5	31.925	12/27/2009	18-20	52.087
5/6/2009	15-17	30.824	1/1/2010	18-20	28.28
5/15/2009	9-11	38.374	1/2/2010	15-17	59.658
5/18/2009	21-23	28.466	1/2/2010	18-20	36.404
6/6/2009	3-5	30.948	1/4/2010	9-11	32
6/8/2009	15-17	27.384	1/4/2010	12-14	32.385
6/25/2009	18-20	27.271	1/4/2010	15-17	28.73
6/25/2009	21-23	42.188	1/4/2010	18-20	111.864
6/26/2009	21-23	22.213	1/4/2010	21-23	150.813
6/30/2009	15-17	63.133	1/10/2010	18-20	42.191
6/30/2009	18-20	23.701	1/10/2010	18-20	42.191
7/7/2009	21-23	21.743	1/11/2010	18-20	26.228
7/9/2009	12-14	28.994	1/11/2010	18-20	26.228
7/10/2009	3-5	20.621	1/16/2010	21-23	37.943
7/23/2009	21-23	22.779	1/19/2010	15-17	20.97
7/24/2009	0-2	190.571	1/20/2010	0-2	25.528
7/24/2009	3-5	37.66	1/20/2010	3-5	22.655
7/29/2009	15-17	21.275	1/27/2010	0-2	23.926
7/31/2009	21-23	23.927	1/27/2010	3-5	20.866
8/16/2009	3-5	144.088	2/1/2010	6-8	45.796
8/18/2009	0-2	21.132	2/1/2010	9-11	28.556
8/20/2009	9-11	32.46	2/1/2010	12-14	21.155
8/20/2009	15-17	28.51	2/5/2010	21-23	31.76
8/25/2009	15-17	148.999	2/15/2010	0-2	45.101
8/25/2009	21-23	61.413	2/15/2010	3-5	23.279
8/28/2009	9-11	113.053	2/17/2010	15-17	30.261
9/14/2009	21-23	34.402	2/18/2010	3-5	30.018
9/15/2009	6-8	237.73	2/19/2010	21-23	54.36
9/15/2009	9-11	91.883	3/4/2010	9-11	21.005

Date	Hours	THC emissions (ppm)	Date	Hours	THC emissions (ppm)
3/13/2010	0-2	55.96	7/12/2010	18-20	24.045
3/14/2010	15-17	56.521	7/13/2010	9-11	52.671
3/16/2010	0-2	26.757	7/19/2010	3-5	23.412
3/22/2010	18-20	47.556	7/22/2010	18-20	26.255
3/26/2010	18-20	21.748	7/25/2010	15-17	79.548
3/30/2010	15-17	43.963	7/26/2010	12-14	41.706
3/31/2010	6-8	24.491	7/27/2010	9-11	43.679
4/5/2010	0-2	22.258	7/27/2010	12-14	23.724
4/7/2010	21-23	204.702	8/16/2010	3-5	27.379
4/8/2010	6-8	58.228	10/19/2010	9-11	28.611
4/8/2010	12-14	29.398	10/23/2010	9-11	157.922
4/12/2010	9-11	51.838	11/2/2010	12-14	21.736
4/13/2010	21-23	106.2	11/10/2010	9-11	29.736
5/3/2010	6-8	28.643	11/11/2010	9-11	51.311
5/3/2010	9-11	29.465	11/13/2010	6-8	74.746
5/5/2010	3-5	77.474	11/13/2010	9-11	35.98
5/9/2010	18-20	48.687	12/3/2010	9-11	21.451
5/13/2010	15-17	31.601	12/4/2010	21-23	85.174
5/17/2010	12-14	47.049	12/10/2010	18-20	28.165
5/26/2010	21-23	25.387	12/10/2010	21-23	29.813
5/28/2010	9-11	35.065	12/16/2010	9-11	32.888
5/31/2010	18-20	53.851	12/21/2010	21-23	29.33
5/31/2010	21-23	34.924	12/22/2010	18-20	24.645
5/31/2010	3-5	69.902	1/6/2011	0-2	50.162
5/31/2010	6-8	58.584	1/7/2011	18-20	20.731
6/2/2010	18-20	103.386	1/7/2011	21-23	53.493
6/2/2010	21-23	27.451	1/8/2011	0-2	52.598
6/4/2010	12-14	22.927	1/8/2011	3-5	84.058
6/5/2010	15-17	56.76	1/8/2011	6-8	63.487
6/21/2010	6-8	30.559	1/8/2011	9-11	48.814
6/24/2010	21-23	43.615	1/8/2011	12-14	32.436
6/25/2010	15-17	48.065	1/8/2011	21-23	21.576
7/1/2010	18-20	35.397	2/27/2011	21-23	21.295
7/6/2010	3-5	29.751	2/28/2011	0-2	22.401
7/6/2010	21-23	64.836	3/4/2011	21-23	20.504
7/7/2010	0-2	87.567	3/5/2011	3-5	57.429
7/8/2010	6-8	53.887	3/5/2011	6-8	72.092
7/8/2010	9-11	181.863	3/5/2011	9-11	77.662
7/8/2010	12-14	52.84	3/21/2011	3-5	27.606
7/11/2010	3-5	25.565	4/23/2011	12-14	60.505

<b>Date</b>	<b>Hours</b>	<b>THC emissions (ppm)</b>
4/23/2011	15-17	21.464
5/1/2011	6-8	26.889
5/4/2011	9-11	28.912
5/28/2011	6-8	28.156
5/28/2011	9-11	31.899
6/3/2011	3-5	27.752
6/3/2011	6-8	45.083
7/3/2011	12-14	20.305
8/1/2011	18-20	60.068
8/1/2011	21-23	43.085
8/2/2011	6-8	33.178
8/24/2011	0-2	61.078
9/6/2011	15-17	39.027
9/7/2011	21-23	43.714
10/10/2011	15-17	35.969
11/4/2011	12-14	22.711
11/12/2011	12-14	23.629
11/14/2011	9-11	24.159
11/14/2011	12-14	72.128
11/22/2011	9-11	21.019
11/26/2011	15-17	27.044
11/26/2011	18-20	71.849
3/13/2012	9-11	24.649
3/27/2012	6-8	94.879
3/27/2012	9-11	261.312
3/27/2012	12-14	140.818
3/27/2012	15-17	231.745
3/27/2012	18-20	78.951
3/27/2012	21-23	22.017
6/13/2012	9-11	1796.612
6/13/2012	15-17	34.435

### Attachment C

At the times listed below, Exide failed to demonstrate that the inside of the building was at a negative pressure, as compared to the outside of the building, of no less than 0.02 mm Hg.

<u>Date</u>	<u>Start Time</u>	<u>End Time</u>	<u>Hours</u>	<u>Date</u>	<u>Start Time</u>	<u>End Time</u>	<u>Hours</u>
6/9/2009	12:00	0:00	1	4/22/2010	5:00	6:00	1
6/10/2009	3:00	8:30	5	4/24/2010	8:30	12:00	3
6/11/2009	7:00	15:00	8		18:00	23:00	5
6/13/2009	3:00	6:00	3	4/26/2010	3:00	6:00	3
6/14/2009	16:00	0:00	1	4/28/2010	0:00	23:00	23
6/15/2009	0:00	9:00	9	4/29/2010	0:00	9:00	9
6/16/2009	9:00	10:00	1	5/1/2010	4:00	7:00	3
	15:00	21:00	6	5/2/2010	3:00		1
6/17/2009	22:00	0:00	1		6:00	7:00	1
6/18/2009	0:00	7:00	7	5/3/2010	3:00	6:00	3
	9:00	12:00	3		12:00		1
6/19/2009	0:00	3:00	3		15:00		1
	8:00	11:00	3		22:00		1
7/11/2009	11:00	13:00	2	5/4/2010	7:00	8:00	1
7/18/2009	8:00	10:00	2		14:00	15:00	1
7/22/2009	12:00	13:00	1	5/5/2010	14:00		1
7/25/2009	12:00	13:00	1		17:00		1
8/19/2009	17:00	20:00	3		21:00	0:00	1
	23:00	0:00	1	5/6/2010	6:00	15:00	9
8/20/2009	0:00	1:00	1	5/7/2010	9:00	0:00	1
8/29/2009	9:00	12:00	3	5/8/2010	0:00	18:00	18
9/8/2009	6:00	10:00	4		23:00	0:00	1
9/11/2009	6:00	7:00	1	5/9/2010	0:00	3:00	3
9/20/2009	5:00	6:00	1		9:00	12:00	3
9/22/2009	20:00	0:00	1		19:00	0:00	1
9/25/2009	12:00	14:00	2	5/10/2010	8:00	11:00	3
9/28/2009	8:00	9:00	1		20:00	0:00	1
10/1/2009	21:00	0:00	1	5/11/2010	0:00	2:30	2
10/2/2009	0:00	9:00	9		4:00	7:00	3
10/5/2009	19:00	23:00	4		17:00	19:00	2
10/6/2009	9:00	10:00	1		22:00	0:00	1
10/7/2009	7:00	8:00	1	5/12/2010	0:00	13:00	13
	12:00	17:00	5		21:00	0:00	1
10/8/2009	20:00	21:00	1	5/13/2010	0:00	2:00	2
10/10/2009	2:00	3:00	1		23:00		1
3/22/2010	12:00	15:00	3	5/31/2010	17:00	21:00	4

Date	Start Time	End Time	Hours	Date	Start Time	End Time	Hours
6/14/2010	22:00	0:00	1	1/4/2011	13:00		1
6/15/2010	0:00	3:00	3	2/2/2011	18:30		1
6/18/2010	21:00		1	2/3/2011	4:00	6:30	2
6/21/2010	7:00	8:00	1		17:30		1
6/22/2010	3:00	8:00	5	2/4/2011	6:00	8:00	2
6/23/2010	22:00	23:00	1	2/6/2011	9:00		1
6/24/2010	16:00		1	2/17/2011	12:30		1
7/8/2010	19:00		1		18:30		1
7/15/2010	17:00	0:00	1	2/21/2011	6:00	7:00	1
7/17/2010	23:00		1	2/22/2011	8:00		1
7/20/2010	7:00	10:00	3	2/25/2011	0:00	14:00	14
7/24/2010	21:00	0:00	1	3/5/2011	15:00		1
7/25/2010	3:00		1	3/9/2011	15:00		1
	7:00		1	3/12/2011	13:00		1
7/27/2010	3:00	5:00	2		21:00		1
7/31/2010	10:00	16:00	6	3/15/2011	13:30		1
8/3/2010	9:00		1	3/17/2011	19:00		1
8/4/2010	2:00		1	3/18/2011	0:00	7:00	7
	12:00		1		11:00	23:00	12
	22:00	0:00	1	3/19/2011	13:00	20:00	7
8/15/2010	21:00	23:00	2	3/20/2011	2:00	3:00	1
8/18/2010	8:00	9:00	1		12:00		1
8/25/2010	20:00	21:00	1	3/21/2011	0:00	14:00	14
8/26/2010	15:00	17:00	2	3/23/2011	19:30		1
9/3/2010	8:00		1	3/24/2011	9:30		1
	18:00		1	4/3/2011	19:00	0:00	1
9/4/2010	0:00		1	4/4/2011	2:00	7:00	5
	17:00		1	4/5/2011	13:00		1
9/5/2010	9:00	12:00	3	4/6/2011	19:00		1
9/16/2010	17:00	19:00	2	4/7/2011	3:00	6:00	3
9/17/2010	2:30	3:30	1		13:00	20:00	7
9/22/2010	3:00	6:00	3	4/8/2011	0:00		1
	15:00		1		15:30		1
9/25/2010	12:00		1	4/9/2011	3:00		1
	20:00	22:00	2		17:00		1
10/13/2010	16:00	20:00	4	4/12/2011	8:00	18:30	10
10/16/2010	9:00		1	4/19/2011	13:00		1
10/26/2010	10:00	12:00	2	4/25/2011	21:00		1
11/9/2010	11:00	21:00	10	4/26/2011	3:00	16:00	13
11/16/2010	15:00	19:00	4	4/27/2011	10:00	21:00	11
11/25/2010	20:00		1	4/28/2011	4:30		1

Date	Start Time	End Time	Hours	Date	Start Time	End Time	Hours
5/4/2011	6:30		1	7/29/2011	0:00	18:00	18
5/15/2011	0:00	6:00	6	7/30/2011	11:00	12:00	1
	14:00	0:00	1	7/31/2011	6:00	23:00	17
5/25/2011	17:00	22:00	5	8/1/2011	15:00	18:00	3
5/28/2011	19:00	20:00	1		23:00		1
6/4/2011	20:00	21:00	1	8/2/2011	0:00	18:00	18
6/10/2011	16:00	19:00	3	8/3/2011	3:00	18:00	15
6/11/2011	4:00	9:00	5	8/4/2011	12:00		1
6/13/2011	3:00		1		20:00		1
	8:00		1	8/5/2011	15:00	16:00	1
6/16/2011	14:00	19:00	5	8/6/2011	8:00	18:00	10
6/19/2011	7:00		1	8/7/2011	8:00	15:00	7
6/20/2011	15:00		1	8/8/2011	12:00	15:00	3
6/26/2011	3:00	6:00	3	8/9/2011	12:00	21:00	9
7/4/2011	16:00	21:00	5	8/11/2011	12:00	15:00	3
7/5/2011	10:00	18:00	8	8/12/2011	12:00	20:00	8
7/7/2011	0:00	4:00	4	8/13/2011	8:00	12:00	4
	15:00	20:00	5		21:00		1
7/8/2011	15:00		1	8/14/2011	3:00		1
	22:00		1	8/15/2011	12:00	23:00	11
7/9/2011	18:00	23:00	5	8/16/2011	0:00	21:00	21
7/10/2011	11:00	14:00	3	8/17/2011	17:00	18:00	1
7/11/2011	10:00	21:00	11	8/18/2011	3:00		1
7/12/2011	0:00	23:00	23		21:00	0:00	1
7/13/2011	0:00	22:00	22	8/19/2011	0:00	21:00	21
7/14/2011	3:00	18:00	15	8/20/2011	9:00	21:00	12
7/15/2011	0:00	20:00	20	8/21/2011	0:00		1
7/16/2011	5:00	8:00	3		18:00		1
7/17/2011	5:00	6:00	1	8/22/2011	1:00		1
7/18/2011	12:00	18:00	6		9:00	23:00	14
7/19/2011	3:00	21:00	18	8/23/2011	14:00		1
7/20/2011	15:00	18:00	3		20:00		1
7/21/2011	8:00	22:00	14	8/24/2011	10:00	23:00	13
7/22/2011	5:00	15:00	10	8/25/2011	10:00	15:00	5
	20:00	23:00	3	8/26/2011	3:00	21:00	18
7/23/2011	6:00	0:00	1	8/27/2011	15:00	18:00	3
7/24/2011	12:00	22:00	10	8/28/2011	15:00	18:00	3
7/25/2011	0:00	21:00	21	8/29/2011	12:00	17:00	5
7/26/2011	6:00	9:00	3	8/30/2011	18:00	19:00	1
7/27/2011	6:00	22:00	16	8/31/2011	15:00	18:00	3
7/28/2011	12:00	23:00	11	9/1/2011	12:00	23:00	11

Date	Start Time	End Time	Hours	Date	Start Time	End Time	Hours
9/2/2011	10:00	13:00	3	2/23/2012	22:00		1
9/3/2011	10:00	20:00	10	2/27/2012	9:00	11:00	2
9/6/2011	9:00	12:00	3	2/28/2012	9:00		1
9/11/2011	20:00	21:00	1	3/2/2012	15:00	18:00	3
9/29/2011	18:00	20:00	2	3/5/2012	10:00		1
10/14/2011	13:00		1	3/8/2012	10:30		1
10/16/2011	16:00	18:00	2	3/9/2012	15:30		1
10/18/2011	16:00	18:00	2	3/16/2012	20:00	0:00	1
10/19/2011	22:00	0:00	1	3/19/2012	0:00	6:00	6
10/20/2011	0:00	13:00	13	3/20/2011	20:00	21:00	1
11/3/2011	16:00	0:00	1	3/21/2012	17:00	18:00	1
11/4/2011	7:00		1		22:00	23:00	1
11/14/2011	17:00	22:00	5	3/22/2012	3:30		1
11/16/2011	10:00	12:00	2		18:00	22:00	4
	20:00		1	3/23/2012	6:00	0:00	1
11/20/2011	18:00	21:00	3	3/24/2012	0:00	5:00	5
11/21/2011	6:00	7:00	1	3/25/2012	15:00	22:00	7
11/22/2011	23:00		1	3/26/2012	2:00	10:00	8
11/28/2011	18:00		1	3/28/2012	6:00	12:00	6
11/29/2011	12:00	23:00	11		21:00	0:00	1
11/30/2011	0:00	2:00	2	3/29/2012	20:00		1
12/2/2011	10:00	13:00	3	3/30/2012	17:00	21:00	4
12/20/2011	9:00	10:00	1	3/31/2012	0:00	23:00	23
12/21/2011	8:00	9:00	1	4/1/2012	6:00		1
12/27/2011	14:00	17:00	3		21:00	0:00	1
1/11/2012	17:30		1	4/2/2012	0:00	6:00	6
1/17/2012	10:00	13:00	3	4/3/2012	8:00	9:00	1
2/1/2012	7:00	10:00	3		20:00	0:00	1
	19:00		1	4/4/2012	0:00	12:00	12
2/3/2012	9:00	23:00	14	4/5/2012	1:00	15:00	14
2/4/2012	0:00	10:00	10	4/7/2012	0:00	4:00	4
	17:00	18:00	1	4/8/2012	15:00		1
2/5/2012	13:00	18:00	5		22:00	0:00	1
2/6/2012	6:00	10:00	4	4/9/2012	0:00	2:00	2
2/8/2012	11:00	15:00	4	4/10/2012	0:00	20:00	20
2/9/2012	10:00		1	4/11/2012	10:00		1
2/10/2012	21:00		1	4/18/2012	10:00		1
2/11/2012	2:00	7:00	5	4/21/2012	7:00	9:00	2
2/15/2012	12:00		1		22:00		1
2/17/2012	21:00		1	4/23/2012	12:00	20:00	8
2/18/2012	13:00		1	4/24/2012	17:00	18:00	1

<b>Date</b>	<b>Start Time</b>	<b>End Time</b>	<b>Hours</b>
4/26/2012	17:00	19:00	2
4/30/2012	18:00	0:00	1
5/1/2012	1:00		1
	15:00	20:00	5
5/4/2012	9:00	20:00	11
5/6/2012	8:00	10:00	2
5/7/2012	9:00	18:00	9
5/9/2012	13:00	18:00	5
5/10/2012	17:00		1
5/14/2012	12:00	15:00	3
5/19/2012	20:00		1
5/23/2012	19:00		1
5/25/2012	20:00	22:00	2
5/26/2012	3:00	13:00	10
5/29/2012	4:00	23:00	19
6/24/2012	23:00	0:00	1
7/4/2012	16:00	20:00	4
7/7/2012	17:00	20:00	3
7/16/2012	15:30		1
7/18/2012	16:00	17:00	1
7/19/2012	20:00	23:00	3
7/21/2012	21:00	0:00	1
7/25/2012	17:00	18:00	1

### Attachment D

Lead concentrations at the Exide facility recorded for Occupational Safety and Health (OSHA) compliance exceeding 500 micrograms per cubic meter (0.5 milligrams per cubic meter).

<b>Date</b>	<b>Location/ Sample Description</b>	<b>Lead (ug/m3)</b>	<b>Date</b>	<b>Location/ Sample Description</b>	<b>Lead (ug/m3)</b>
9/24/2008	furnace	2885	3/18/2009	refinery	541
9/24/2008	furnace	2885	3/19/2009	bin room	10702
9/24/2008	furnace	1262	3/19/2009	bin room	10702
9/24/2008	furnace	1262	3/19/2009	breaker	1198
9/24/2008	furnace	1631	3/19/2009	breaker	1198
9/24/2008	furnace	1631	3/19/2009	furnace	1481
9/24/2008	furnace	1774	3/19/2009	furnace	1481
9/24/2008	furnace	1774	3/19/2009	maintenance	828
9/24/2008	refinery	1369	3/19/2009	maintenance	828
9/24/2008	refinery	1369	3/19/2009	refinery	2588
9/24/2008	refinery	4536	3/19/2009	refinery	2588
9/24/2008	refinery	4536	3/20/2009	refinery	516
9/24/2008	refinery	12500	3/20/2009	refinery	516
9/24/2008	refinery	12500	3/20/2009	refinery	1103
9/24/2008	refinery	770	3/20/2009	refinery	1103
9/24/2008	refinery	770	3/24/2009	furnace	1659
9/25/2008	furnace	2357	3/24/2009	furnace	1659
9/25/2008	furnace	2357	3/24/2009	refinery	2101
9/26/2008	refinery	632	3/24/2009	refinery	2101
9/26/2008	refinery	632	3/28/2009	WWTP	696
9/26/2008	refinery	639	3/28/2009	WWTP	696
9/26/2008	refinery	639	6/4/2009	breaker	1604
9/26/2008	refinery	917	6/4/2009	breaker	1604
9/26/2008	refinery	917	6/5/2009	furnace	908
9/26/2008	shipping	1938	6/5/2009	furnace	908
9/26/2008	shipping	1938	6/5/2009	shipping	1259
9/27/2008	furnace	3292	6/5/2009	shipping	1259
9/27/2008	furnace	3292	6/8/2009	furnace	553
12/16/2008	shipping	597	6/8/2009	furnace	553
12/16/2008	shipping	597	6/8/2009	furnace	569
12/17/2008	*ILLEGIBLE	589	6/8/2009	furnace	569
12/17/2008	*ILLEGIBLE	589	6/9/2009	maintenance	908
3/18/2009	furnace	6364	6/9/2009	maintenance	908
3/18/2009	furnace	6364	6/9/2009	refinery	1819
3/18/2009	refinery	541	6/9/2009	refinery	1819

Date	Location/ Sample Description	Lead (ug/m3)	Date	Location/ Sample Description	Lead (ug/m3)
6/9/2009	shipping	896	11/6/2009	breaker	923
6/9/2009	shipping	896	11/6/2009	furnace	1636
6/11/2009	furnace	725	11/6/2009	furnace	1636
6/11/2009	furnace	725	11/10/2009	breaker	1033
6/11/2009	refinery	526	11/10/2009	breaker	1033
6/11/2009	refinery	526	11/11/2009	furnace	531
6/11/2009	refinery	3036	11/11/2009	furnace	531
6/11/2009	refinery	3036	11/13/2009	WWTP	747
6/11/2009	shipping	1639	11/13/2009	WWTP	747
6/11/2009	shipping	1639	11/16/2009	refinery	1344
6/16/2009	breaker	2036	11/16/2009	refinery	1344
6/16/2009	breaker	2036	11/20/2009	breaker	1792
6/18/2009	furnace	2381	11/20/2009	breaker	1792
6/18/2009	furnace	2381	11/30/2009	furnace	1385
9/2/2009	refinery	942	11/30/2009	furnace	1385
9/2/2009	refinery	942	12/11/2009	shipping	2146
9/2/2009	shipping	563	12/11/2009	shipping	2146
9/2/2009	shipping	563	12/17/2009	furnace	1187
9/3/2009	WWTP	910	12/17/2009	furnace	1187
9/3/2009	WWTP	910	2/2/2010	furnace	870
9/4/2009	shipping	571	2/2/2010	furnace	870
9/4/2009	shipping	571	2/2/2010	Whse/Shp	756
9/8/2009	shipping	723	2/2/2010	Whse/Shp	756
9/8/2009	shipping	723	2/7/2010	Whse/Shp	509
9/9/2009	maintenance	2146	2/7/2010	Whse/Shp	509
9/9/2009	maintenance	2146	2/8/2010	WWTP	2356
9/10/2009	furnace	1269	2/8/2010	WWTP	2356
9/10/2009	furnace	1269	2/8/2010	WWTP	17889
9/10/2009	refinery	1163	2/8/2010	WWTP	17889
9/10/2009	refinery	1163	2/9/2010	breaker	605
9/15/2009	breaker	535	2/9/2010	breaker	605
9/15/2009	breaker	535	2/9/2010	refinery	1944
9/16/2009	furnace	986	2/9/2010	refinery	1944
9/16/2009	furnace	986	2/10/2010	WWTP	942
9/16/2009	refinery	734	2/10/2010	WWTP	942
9/16/2009	refinery	734	2/11/2010	Whse/Shp	545
11/3/2009	shipping	1458	2/11/2010	Whse/Shp	545
11/3/2009	shipping	1458	2/13/2010	furnace	1500
11/4/2009	WWTP	964	2/13/2010	furnace	1500
11/4/2009	WWTP	964	2/14/2010	maintenance	1208
11/6/2009	breaker	923	2/14/2010	maintenance	1208

Date	Location/ Sample Description	Lead (ug/m3)	Date	Location/ Sample Description	Lead (ug/m3)
2/14/2010	refinery	1372	3/11/2010	breaker	1226
2/14/2010	refinery	1372	3/15/2010	shipping	551
2/15/2010	Whse/Shp	4575	3/15/2010	shipping	551
2/15/2010	Whse/Shp	4575	3/17/2010	breaker	963
2/18/2010	fumace	2228	3/17/2010	breaker	963
2/18/2010	fumace	2228	3/24/2010	?	1032
2/19/2010	breaker	1325	3/24/2010	?	1032
2/19/2010	breaker	1325	3/26/2010	fumace	2843
2/20/2010	fumace	1132	3/26/2010	furnace	2843
2/20/2010	furnace	1132	3/26/2010	shipping	2624
2/22/2010	breaker	1750	3/26/2010	shipping	2624
2/22/2010	breaker	1750	3/31/2010	fumace	796
2/22/2010	fumace	3135	3/31/2010	fumace	796
2/22/2010	fumace	3135	8/1/2010	maintenance	818
2/22/2010	maintenance	932	8/1/2010	maintenance	818
2/22/2010	maintenance	932	8/2/2010	fumace	1553
2/22/2010	Whse/Shp	717	8/2/2010	fumace	1553
2/22/2010	Whse/Shp	717	8/3/2010	baghouse	580
2/23/2010	?	11145	8/3/2010	baghouse	580
2/23/2010	?	11145	8/14/2010	refinery	2571
2/23/2010	shipping	726	8/14/2010	refinery	2571
2/23/2010	shipping	726	8/15/2010	refinery	2200
2/23/2010	WWTP	1043	8/15/2010	refinery	2200
2/23/2010	WWTP	1043	8/16/2010	furnace	9422
2/24/2010	shipping	602	8/16/2010	fumace	9422
2/24/2010	shipping	602	8/18/2010	breaker	1162
2/25/2010	refinery	4333	8/18/2010	breaker	1162
2/25/2010	refinery	4333	8/19/2010	RLS	1284
2/26/2010	breaker	800	8/19/2010	RLS	1284
2/26/2010	breaker	800	8/20/2010	breaker	1367
2/27/2010	fumace	1146	8/20/2010	breaker	1367
2/27/2010	fumace	1146	8/20/2010	Whse/Shp	3788
3/5/2010	refinery	572	8/20/2010	Whse/Shp	3788
3/5/2010	refinery	572	8/24/2010	Whse/Shp	556
3/8/2010	fumace	2759	8/24/2010	Whse/Shp	556
3/8/2010	furnace	2759	8/30/2010	furnace	1704
3/10/2010	maintenance	503	8/30/2010	furnace	1704
3/10/2010	maintenance	503	9/9/2010	WWTP	759
3/10/2010	refinery	777	9/9/2010	WWTP	759
3/10/2010	refinery	777	9/13/2010	Whse/Shp	18983
3/11/2010	breaker	1226	9/13/2010	Whse/Shp	18983

<b>Date</b>	<b>Location/ Sample Description</b>	<b>Lead (ug/m3)</b>	<b>Date</b>	<b>Location/ Sample Description</b>	<b>Lead (ug/m3)</b>
9/15/2010	furnace	1059	5/6/2011	furnace	48387
9/15/2010	furnace	1059	5/6/2011	refinery	3847
9/22/2010	breaker	2657	5/6/2011	refinery	3847
9/22/2010	breaker	2657	5/6/2011	Whse/Shp	711
10/4/2010	furnace	3080	5/6/2011	Whse/Shp	711
10/4/2010	furnace	3080	5/6/2011	Whse/Shp	6107
11/1/2010	breaker	864	5/6/2011	Whse/Shp	6107
11/1/2010	breaker	864	5/9/2011	WWTP	720
11/1/2010	breaker	1948	5/9/2011	WWTP	720
11/1/2010	breaker	1948	5/11/2011	breaker	1286
11/1/2010	refincry	847	5/11/2011	breaker	1286
11/1/2010	refinery	847	5/13/2011	furnace	794
11/1/2010	Whse/Shp	2080	5/13/2011	furnace	794
11/1/2010	Whse/Shp	2080	5/15/2011	furnace	897
11/15/2010	furnace	921	5/15/2011	furnace	897
11/15/2010	furnace	921	5/15/2011	maintenance	873
11/15/2010	WWTP	824	5/15/2011	maintenance	873
11/15/2010	WWTP	824	5/15/2011	Whse/Shp	1951
11/16/2010	refinery	800	5/15/2011	Whse/Shp	1951
11/16/2010	refinery	800	5/16/2011	breaker	1645
11/16/2010	Whse/Shp	889	5/16/2011	breaker	1645
11/16/2010	Whse/Shp	889	5/17/2011	refinery	578
11/29/2010	breaker	1215	5/17/2011	refinery	578
11/29/2010	breaker	1215	5/23/2011	refinery	1109
12/2/2010	furnace	542	5/23/2011	refinery	1109
12/2/2010	furnace	542	5/23/2011	WWTP	577
12/13/2010	WWTP	718	5/23/2011	WWTP	577
12/13/2010	WWTP	718	5/26/2011	furnace	799
12/17/2010	Whse/Shp	864	5/26/2011	furnace	799
12/17/2010	Whse/Shp	864	8/10/2011	breaker	1536
12/26/2010	furnace	1938	8/10/2011	breaker	1536
12/26/2010	furnace	1938	8/10/2011	WWTP	619
5/5/2011	breaker	2125	8/10/2011	WWTP	619
5/5/2011	breaker	2125	8/11/2011	baghouse	600
5/5/2011	furnace	1736	8/11/2011	baghouse	600
5/5/2011	furnace	1736	8/11/2011	furnace	6264
5/5/2011	refinery	758	8/11/2011	furnace	6264
5/5/2011	refinery	758	8/12/2011	refinery	864
5/6/2011	breaker	1583	8/12/2011	refinery	864
5/6/2011	breaker	1583	8/15/2011	maintenance	1521
5/6/2011	furnace	48387	8/15/2011	maintenance	1521

<b>Date</b>	<b>Location/ Sample Description</b>	<b>Lead (ug/m3)</b>	<b>Date</b>	<b>Location/ Sample Description</b>	<b>Lead (ug/m3)</b>
8/15/2011	refinery	544	10/21/2011	breaker	617
8/15/2011	refinery	544	10/21/2011	furnace	2563
8/16/2011	refinery	755	10/21/2011	furnace	2563
8/16/2011	refinery	755	10/21/2011	furnace	2762
8/17/2011	environmental	2448	10/21/2011	furnace	2762
8/17/2011	environmental	2448	10/24/2011	refinery	1323
8/17/2011	furnace	1583	10/24/2011	refinery	1323
8/17/2011	furnace	1583	10/26/2011	furnace	1115
8/30/2011	breaker	683	10/26/2011	furnace	1115
8/30/2011	breaker	683	11/4/2011	baghouse	1570
9/1/2011	breaker	1104	11/4/2011	baghouse	1570
9/1/2011	breaker	1104	11/18/2011	refinery	796
9/1/2011	breaker	1611	11/18/2011	refinery	796
9/1/2011	breaker	1611	11/21/2011	furnace	3406
9/6/2011	refinery	2577	11/21/2011	furnace	3406
9/6/2011	refinery	2577	1/30/2012	breaker	1403
9/15/2011	furnace	1011	1/30/2012	breaker	1403
9/15/2011	furnace	1011	1/30/2012	furnace	628
9/16/2011	furnace	735	1/30/2012	furnace	628
9/16/2011	furnace	735	1/30/2012	maintenance	850
10/11/2011	baghouse	2433	1/30/2012	maintenance	850
10/11/2011	baghouse	2433	1/30/2012	refinery	3233
10/11/2011	breaker	1310	1/30/2012	refinery	3233
10/11/2011	breaker	1310	1/30/2012	WWTP	569
10/11/2011	refinery	714	1/30/2012	WWTP	569
10/11/2011	refinery	714	1/31/2012	baghouse	518
10/11/2011	refinery	1296	1/31/2012	baghouse	518
10/11/2011	refinery	1296	1/31/2012	breaker	2149
10/11/2011	WWTP	895	1/31/2012	breaker	2149
10/11/2011	WWTP	895	1/31/2012	furnace	2867
10/12/2011	breaker	2518	1/31/2012	furnace	2867
10/12/2011	breaker	2518	1/31/2012	refinery	694
10/13/2011	breaker	4869	1/31/2012	refinery	694
10/13/2011	breaker	4869	2/1/2012	maintenance	3835
10/15/2011	refinery	577	2/1/2012	maintenance	3835
10/15/2011	refinery	577	2/2/2012	refinery	765
10/16/2011	WWTP	1524	2/2/2012	refinery	765
10/16/2011	WWTP	1524	2/8/2012	furnace	2822
10/18/2011	baghouse	959	2/8/2012	furnace	2822
10/18/2011	baghouse	959	3/6/2012	furnace	3922
10/21/2011	breaker	617	3/6/2012	furnace	3922

<b>Date</b>	<b>Location/ Sample Description</b>	<b>Lead (ug/m3)</b>	<b>Date</b>	<b>Location/ Sample Description</b>	<b>Lead (ug/m3)</b>
3/9/2012	furnace	2476	8/10/2012	breaker	1536
3/9/2012	furnace	2476	8/10/2012	WWTP	619
3/9/2012	maintenance	885	8/10/2012	WWTP	619
3/9/2012	maintenance	885	8/11/2012	baghouse	600
3/9/2012	refinery	5152	8/11/2012	baghouse	600
3/9/2012	refinery	5152	8/11/2012	furnace	6264
3/14/2012	shipping	2298	8/11/2012	furnace	6264
3/14/2012	shipping	2298	8/12/2012	refinery	864
3/19/2012	refinery	990	8/12/2012	refinery	864
3/19/2012	refinery	990	8/15/2012	maintenance	1521
6/13/2012	maintenance	1074	8/15/2012	maintenance	1521
6/13/2012	maintenance	1074	8/15/2012	refinery	544
6/16/2012	breaker	958	8/15/2012	refinery	544
6/16/2012	breaker	958	8/16/2012	refinery	755
6/17/2012	refinery	2012	8/16/2012	refinery	755
6/17/2012	refinery	2012	8/17/2012	environmental	2448
6/18/2012	breaker	873	8/17/2012	environmental	2448
6/18/2012	breaker	873	8/17/2012	furnace	1583
6/18/2012	breaker	3357	8/17/2012	furnace	1583
6/18/2012	breaker	3357	8/30/2012	breaker	683
6/18/2012	furnace	1500	8/30/2012	breaker	683
6/18/2012	furnace	1500	9/1/2012	breaker	1104
6/18/2012	furnace	5108	9/1/2012	breaker	1104
6/18/2012	furnace	5108	9/1/2012	breaker	1611
6/18/2012	refinery	1750	9/1/2012	breaker	1611
6/18/2012	refinery	1750	9/6/2012	refinery	2577
6/19/2012	breaker	1595	9/6/2012	refinery	2577
6/19/2012	breaker	1595	9/15/2012	furnace	1011
6/19/2012	furnace	2110	9/15/2012	furnace	1011
6/19/2012	furnace	2110	9/16/2012	furnace	735
6/19/2012	refinery	592	9/16/2012	furnace	735
6/19/2012	refinery	592	12/18/2012	breaker	520
6/20/2012	refinery	1569	12/18/2012	breaker	520
6/20/2012	refinery	1569	12/18/2012	furnace	880
6/22/2012	breaker	3705	12/18/2012	furnace	880
6/22/2012	breaker	3705	12/18/2012	furnace	1500
6/22/2012	furnace	651	12/18/2012	furnace	1500
6/22/2012	furnace	651	12/18/2012	refinery	940
6/22/2012	refinery	1963	12/18/2012	refinery	940
6/22/2012	refinery	1963	12/18/2012	refinery	2500
8/10/2012	breaker	1536	12/18/2012	refinery	2500

<b>Date</b>	<b>Location/ Sample Description</b>	<b>Lead (ug/m3)</b>
12/19/2012	baghouse	1400
12/19/2012	baghouse	1400
12/19/2012	fumace	1600
12/19/2012	fumace	1600
12/19/2012	maintenance	2700
12/19/2012	maintenance	2700
1/3/2013	fumace	1300
1/3/2013	fumace	1300
1/3/2013	fumace	9600
1/3/2013	fumace	9600
1/3/2013	refinery	640
1/3/2013	refinery	640
1/3/2013	refinery	1700
1/3/2013	rcfinery	1700

**CERTIFICATE OF MAILING**

I, Loretta Shaffer, certify that I sent a Notice of Violation and Finding of Violation, No. EPA-5-13-IN-13, by Certified Mail, Return Receipt Requested, to:

Mr. Mark Sutton  
Environmental Manager  
Exide Technologies  
2601 West Mt. Pleasant Boulevard  
Muncie, Indiana 47302

Frederick Ganster  
Exide Technologies  
Director Environment, Health, & Safety  
2900 Montrose Ave  
Reading, Pennsylvania 19605

I also certify that I sent copies of the Notice of Violation and Finding of Violation by first-class mail to:

Phil Perry, Chief  
Air Compliance and Enforcement Branch  
Indiana Department of Environmental Management  
100 N. Senate Ave.  
Mail Code 61-53 IGCN 1003  
Indianapolis, IN 46204-2251

On the 16 day of September 2013.



CERTIFIED MAIL RECEIPT NUMBER: 7009 16X0 0000 7669 5633