

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
ENGINEERING AND COMPLIANCE
APPLICATION PROCESSING AND CALCULATIONS

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P/C

COMPANY NAME AND ADDRESS

Exide Technologies
2700 South Indiana Street
Los Angeles, CA 90023

ID 124838

mailing and equipment address

EQUIPMENT DESCRIPTION

(NEW EQUIPMENT AND CHANGES TO EXISTING EQUIPMENT ARE INDICATED IN BOLD TYPE)

APPLICATION NO. 548251 (MODIFICATION)

ALTERATION TO THE LEAD SLAG PROCESSING SYSTEM OF A/N 374225 BY THE **ADDITION OF AN AUTOMATIC COVER DOOR** TO THE FEED CHUTE LOCATED IN THE CUPOLA FURNACE THIMBLE OF DEVICE D133.

APPLICATION NO. 548252

RECLAIM/TITLE V MINOR PERMIT REVISION

HISTORY

The following table describes the status and description of the submitted applications:

A/N	DATE RECEIVED	CLASS	DESCRIPTION
548251	03/12/2013	I	ALTERATION TO THE CUPOLA FURNACE THIMBLE
548252	03/12/2013	III	RECLAIM/TITLE V MINOR PERMIT REVISION

The table below summarizes the permit history regarding the subject equipment:

CUPOLA FURNACE PERMIT UNIT	
548251	Received 3-12-2013. This application submitted to install a cover on top of the feed chute which is part of the cupola furnace thimble. This alteration is proposed as one step to reduce arsenic emissions collected by the Hard Lead Baghouse which vents fugitive emissions from the thimble area on top of the cupola furnace.
374225	Received 8-31-2000 for change of ownership between GNB ID 44551 and Exide ID 124838. P/O F36697 issued 1-25-2001 in Title V Facility Permit. The P/O number is for internal administrative purposes only since this facility is currently a RECLAIM/Title V facility.

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CUPOLA FURNACE PERMIT UNIT	
307425	Received 9-15-1995 following the end of the stipulated Order For Abatement (O/A) issued under Case No. 3151-3. P/O F10947 issued 12-19-1997.
261786	Received 1-31-1992, Denied 5-8-1992. GNB filed A/N's 261786-8 to cover unpermitted alterations to the reverberatory and cupola furnaces, and the reverb dryer baghouse. Denial based on expected violations attributed to unpermitted addition of oxygen enrichment (excess NOx emissions), Rule 401 visible emissions, and Reg XIII violations. GNB entered into the stipulated Order for Abatement (O/A) of Case No. 3151-3 on 7-8-1992 in order to continue operation of this facility following the denial of the permanent equipment modifications which, in part, resulted in the denial of the equipment permit applications serving as temporary operating permits.
127247	Received 11-14-1984, P/O M56003 issued 4-9-1987
123778	Received 6-25-1984, P/O M34465 issued 8-29-1984 to GNB, ID 44551
C33321	Received 7-14-1980, P/O M38605 issued to Gould Inc., Metals Div. 6-8-1984, ID 7568

PROCESS DESCRIPTION

BACKGROUND

In accordance with the California Air Toxics "Hot Spots" Act (AB2588), Exide submitted a health risk assessment (HRA) for the Exide Technologies facility located at 2700 South Indiana Street, Vernon, California. The report was prepared by a consulting group, ENVIRON International Corporation (ENVIRON), hired for this task by Exide. ENVIRON prepared a draft AB2588 Health Risk Assessment (HRA) for Exide using the emission data from source tests conducted in 2010; this draft report was submitted to SCAQMD on March 1, 2012 (since this report was started in 2011 and has been referred as 2011 report in various communications and presentations, hereinafter, it is referred as the "2011 Draft Report").

Per the review comments on the 2011 Draft Report by SCAQMD, ENVIRON prepared a revised report. ENVIRON also included the emission data from the source tests conducted for the Hard Lead Baghouse and Neptune Scrubber stacks in 2012 by using the averages of the 2010 and 2012 source test data per the instruction of SCAQMD staff.

The amended HRA was submitted on 1-15-2013. This HRA was reviewed by the SCAQMD AB2588 group. Corrections to the initial analysis were performed by the SCAQMD and the results were transmitted to Exide in a March 1, 2013 HRA letter.

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After making corrections to the final HRA report submitted by Exide, the SCAQMD reported the following results in the 3-1-2013 HRA letter:

1. Maximum individual worker cancer risk (MICRw) = 156 in a million at a worker receptor 300 meters northeast of the facility
2. Maximum individual residential cancer risk (MICRr) = 22 in a million at a residential receptor 1,400 meters north of the facility
3. Cancer burden of 10.
4. Maximum chronic hazard index (HIC) = 63 at the same worker receptor
5. Maximum acute hazard index (HIA) = 3.8 along eastern fence line

The main driver of these health risk effects is arsenic. Arsenic emissions account for about 90% of the cancer risk effects.

This HRA is the first step required in an ongoing Rule 1402 evaluation by the SCAQMD AB2588 group. These emissions have resulted in an existing cancer risk greater than 25 in a million and a cancer burden greater than 0.5. These risk levels trigger requirements in Rule 1402 for a Risk Reduction Plan (RRP) which is required to be submitted by Exide within 180 days of the 3-1-2013 SCAQMD HRA letter. The required risk reduction must be completed no later than 3 years from the initial date of submittal of the pending RRP. However, the SCAQMD intends to work with Exide to accomplish the required risk reduction on a faster timeline than the 3 year limit, if technologically feasible.

In order to properly design an adequate RRP, it has been determined that a correction to the thimble area of the cupola furnace is needed. This will be discussed in the next section of this report.

PROCESS EQUIPMENT CONFIGURATION

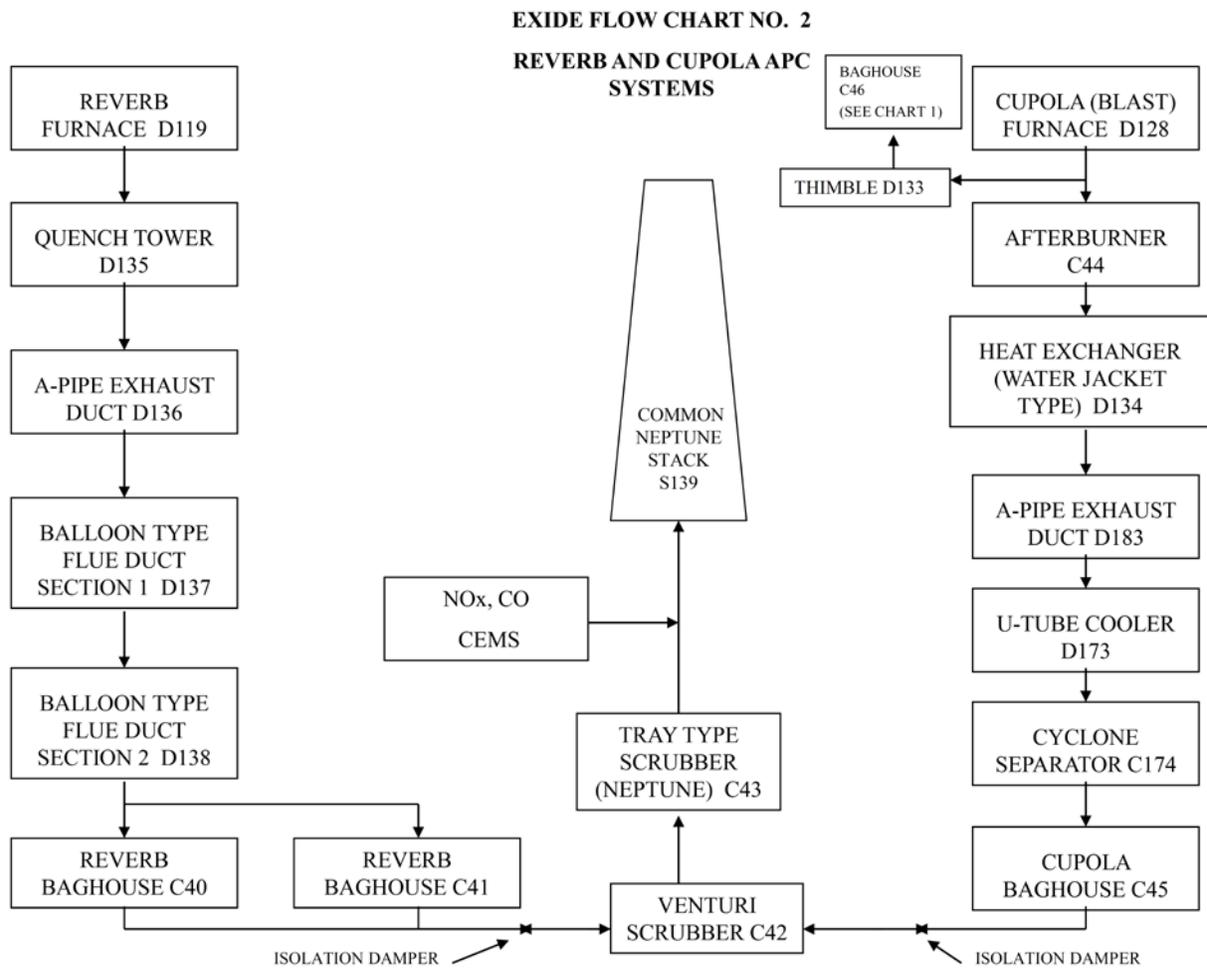
Exide Technologies is a secondary lead smelter. The subject permit applications were submitted to install an automated cover door on top of the feed chute which is part of the cupola furnace thimble. The "thimble" is the equipment located at the top of the cupola furnace which functions as a fume hood, as the beginning of the conduit for the hot exhaust gases which are routed to the afterburner, and as the holder of the feed chute mechanism through which the lead bearing materials and solid carbon coke fuel/reducing agent is charged to the furnace itself.

After a review of available data, it has been determined by both Exide and SCAQMD staff that 90 percent of the cancer risk results from arsenic emissions originating with the cupola (blast) furnace. The emissions from this device are vented to two separate air pollution control systems

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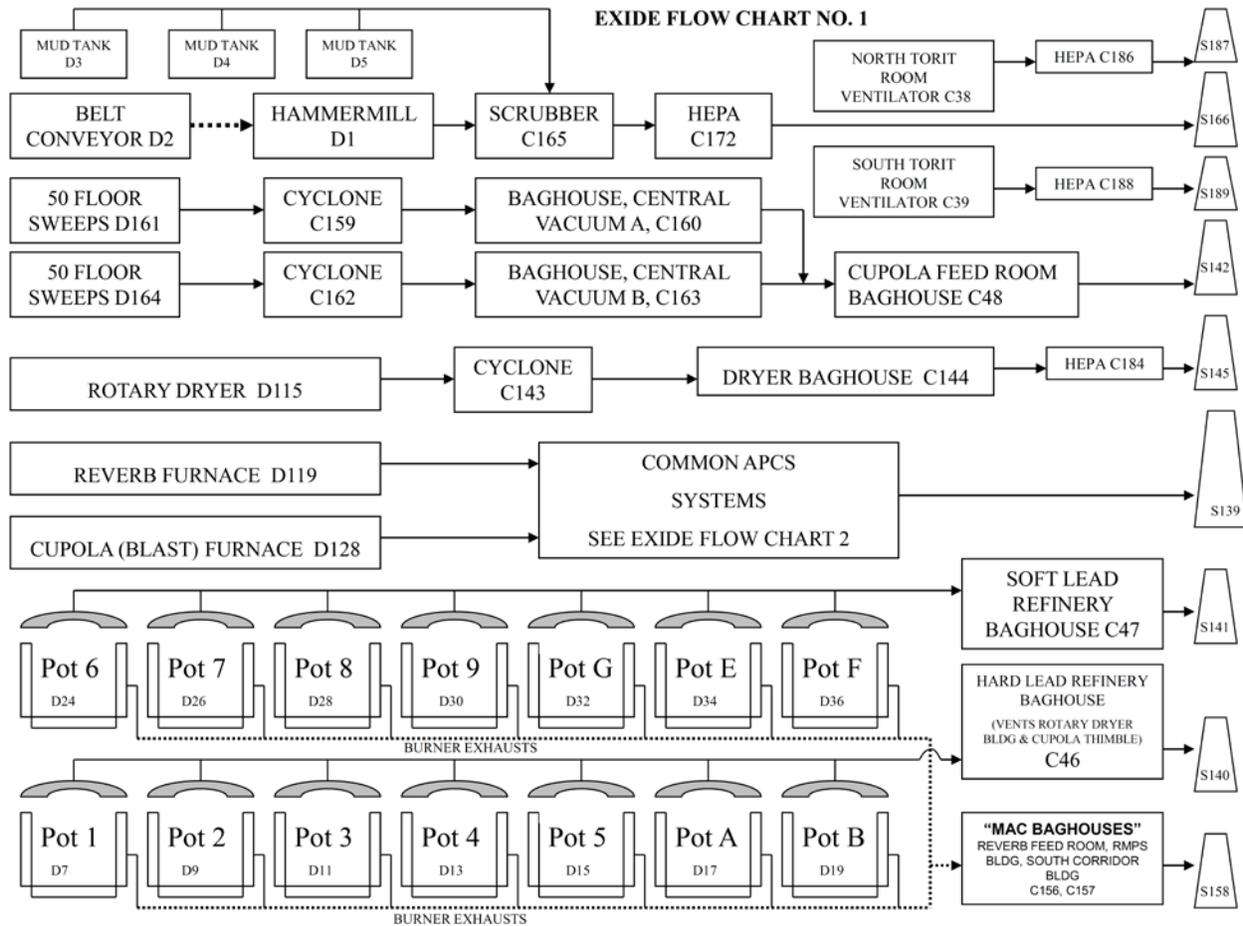
(APCS). The primary APCS consists of an afterburner, baghouse, venturi scrubber and tray type scrubber (the Neptune scrubber). The Neptune scrubber also serves the reverberatory furnace. Refer to the schematic below:



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The second control system venting the exhaust gases from the cupola furnace is the "hard lead" baghouse of device C46. This is an APCS that is used to mainly vent the metallurgical part of several refining pot furnaces at this facility. Refer to the following schematic:



The pot furnaces are indirectly fired and the burner exhausts are vented to the "MAC" baghouses of devices C156 and 157.

The hard lead baghouse exhaust system is designed to capture only "fugitive" dust emissions from the thimble area of the cupola furnace. However, it has been discovered in the HRA testing that "process gases" being captured by the hard lead baghouse are causing an elevated arsenic emission rate from the hard lead baghouse stack outlet. This baghouse was not designed to control emissions from process gases attributed to the cupola furnace on a large scale. The hard lead baghouse exhaust system venting of the thimble area is designed to capture only fugitive emissions of dust and process gases escaping capture by the main process control system. The main process control is the one ending with the Neptune scrubber as the final stage before venting to an exhaust stack.

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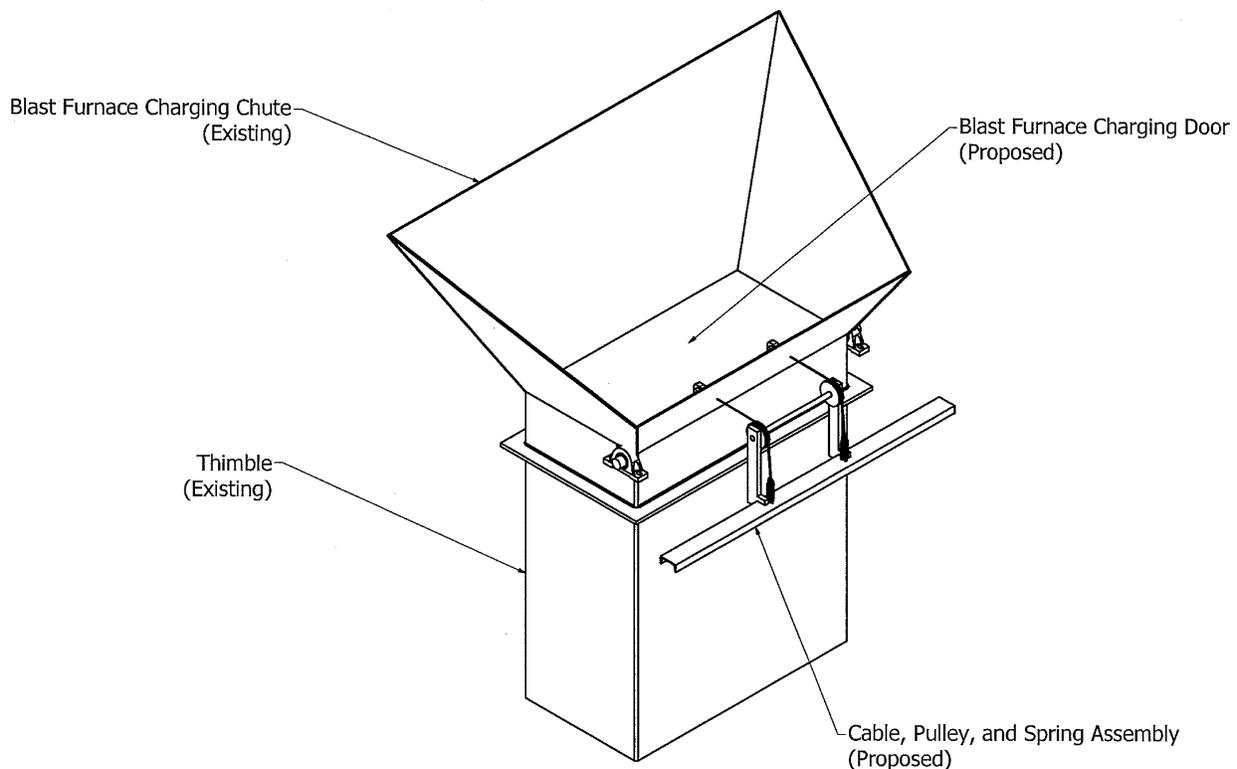
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It is physically impossible to prevent some of the process gases from becoming fugitive emissions at the thimble area. This occurs because a feed chute allows hot gases to escape from the top of the thimble mechanism. The cupola furnace is periodically charged with buckets through this feed chute during normal furnace operation. The hard lead baghouse scavenges gases not captured at the process control inlet. It is also important to note that any gases not captured by both the main process control and the hard lead baghouse are subsequently captured by all other baghouses and room ventilators pulling air from the inside of the total containment building.

DESCRIPTION OF PROPOSED EQUIPMENT ALTERATION

The proposed alteration will consist of a mechanical door which will close shut in the feed chute whenever actual process feeding is not occurring. This will minimize the amount of process gases escaping from the feed chute and entering the hard lead baghouse. This alteration does not consist of the main risk reduction measures which will eventually be proposed by Exide. However, it is a needed step required to determine the configuration of additional air pollution control systems which will be required to ultimately provide final reduction of toxic air contaminants down to levels which are in compliance with the Rule 1402 thresholds.

The following diagram provided by Exide shows the conceptual arrangement of the proposed automatic door:



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EMISSIONS EVALUATION

The main form of arsenic emissions in the exhaust systems from this facility are expected to be present in the form of arsenic trioxide (As₂O₃). This compound has several special properties which affect the emissions profile from control equipment venting sources of arsenic emissions.

Specifically, arsenic trioxide has a vapor pressure at high temperatures. The vapor pressure property is cancelled when this compound dissolves in water, due to a chemical reaction. By venting more arsenic containing emissions to the process APCS, instead of the Hard Lead baghouse, the arsenic will be better controlled since the process control contains wet scrubbers.

The proposed alteration to the thimble area of the cupola furnace will accomplish this goal of decreasing the amount of blast furnace process gases entering the hard lead baghouse, resulting in better process control of arsenic trioxide emissions.

Since this alteration will effectively re-distribute the total arsenic emissions between two separate exhaust stacks, the source test conditions will require simultaneous testing of both stacks to properly re-quantify the total arsenic emissions potential for the next HRA, after the arsenic emissions are re-distributed between the two control systems.

EVALUATION

CEQA

There are no emissions increases resulting from the proposed alterations and change of conditions. Therefore a CEQA evaluation is not required in this case.

RULE 212

There are no emissions increases and no increases in health risk resulting from the proposed alterations and change of conditions. Therefore a Rule 212 public notice is not required in this case.

RULE 401

Operation of the subject equipment is not expected to cause visible emissions in excess of the limits in this rule. Therefore, compliance is expected.

RULE 402

Since the process equipment is vented to baghouses and scrubbers at this facility, nuisance complaints due to dust and odors is not expected during normal operation of the subject equipment at this facility. Any nuisance complaints resulting from process upset conditions (if any) will be handled by SCAQMD Compliance staff.

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RULE 404

Previous evaluations have shown compliance with the particulate concentration limits in this rule.

RULE 405

Previous evaluations have shown compliance with the particulate emission limits in this rule.

REGULATION XIII/BACT

Since no emission increases are expected as a result of the proposed alteration, emission offsets and a BACT evaluation are not required in this case.

RULE 1401

There is no health risk increase resulting from this set of applications. Therefore, compliance with this rule is expected.

RULE 1402

The emissions from this facility have resulted in an existing cancer risk greater than 25 in a million and a cancer burden greater than 0.5. These risk levels trigger requirements in Rule 1402 for a Risk Reduction Plan (RRP) which is required to be submitted by Exide within 180 days of the 3-1-2013 SCAQMD HRA letter. The required risk reduction must be completed no later than 3 years from the initial date of submittal of the pending RRP. The RRP is pending at this point. Additional source tests and the subject equipment modification are required in conjunction with the pending RRP.

RULE 1420

Previous source tests have demonstrated that all APCS equipment at this facility has at least 98% control efficiency on lead emissions.

RULE 1420.1

This facility is in compliance with all applicable requirements in this rule.

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40CFR60 Supart X (LEAD NESHAP)

The total enclosure buildings at this facility are equipped with negative pressure differential gauges to ensure compliance with the total enclosure negative pressure requirements in this rule. The APC systems have been previously tested and found to be in compliance with the lead concentration limits in this rule. Therefore, compliance with the lead NESHAP has been demonstrated.

REGULATION 30, TITLE V

Since the proposed project will not result in any emission increases, the current modification is considered to be a Title V minor permit revision under this regulation.

CAM

CAM requirements pertain to the requirements of 40 CFR 64, Continuous Assurance Monitoring. The CAM rule contains specific federal monitoring requirements for process equipment which is vented by air pollution control systems where the facilities which are major sources, as defined in Title V (Reg 30). Permit conditions currently ensure compliance with CAM requirements. The following APC systems in operation at Exide are subject to CAM requirements. These APC systems have the following conditions associated with them:

APCS	Device ID	REQUIRED CONDITIONS
APCS #1 Reverb furnace baghouse	C40, C41	C6.3, D12.5, D12.6, D12.11, D381.1, E102.1, E193.1, H116.1, H116.2, H116.4, K67.2
APCS #2 Blast furnace baghouse	C45	C6.3, D12.5, D12.6, D12.11, D381.1, E102.1, E193.1, H116.1, H116.2, H116.4, K67.2
APCS #5 Hard lead (pot furnace) baghouse	C46	D12.6, D12.7, D12.10, D12.11, D381.1, E102.1, H116.1, H116.2, H116.4, K67.3, E193.1
APCS #6 Soft lead (pot furnace) baghouse	C47	D12.6, D12.7, D12.10, D12.11, D381.1, E102.1, H116.1, H116.2, H116.4, K67.3, E193.1
Rotary dryer baghouse	C144	C6.2, D12.5, D12.6, D381.1, E102.1, E193.1, H116.1, H116.2, H116.4, K67.2
Blast/Reverb Furnace Common Stack Outlet	S139	A63.1, D82.1, D323.1, K67.9

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DISCUSSION

There are no emission increases expected with regards to the subject permit applications. The proposed alteration is expected to result in a net decrease in arsenic emissions which will lower the existing cancer risk profile attributed to this facility.

Permit conditions are required to ensure compliance with all applicable Rules and Regulations. Special permit conditions will ensure that the pending source tests will be representative of the emissions profile from this equipment.

RECOMMENDATION

APPLICATION NO. 548252

Approve Title V Facility Permit modification

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APPLICATION NO. 548251

Approve Title V Facility Permit modification

Issue Permit to Construct subject to the following Facility Permit modifications and change of conditions in Section H::

1. Add new devices, modify device descriptions, add device connections, and add new permit conditions as indicated in the tables below for the described Processes and Systems, and transfer to Section H all existing conditions:

(Note: additions and changes are **shaded** and indicated in **bold type**)

APPLICATION NO. 548251 LEAD SLAG PROCESSING SYSTEM

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: SECONDARY METALS, LEAD SMELTING PROCESS					
System 4: LEAD SLAG PROCESSING SYSTEM					
HOPPER, WEIGH, CUPOLA FURNACE FEED A/N: 548251	D126	C48		LEAD: (10) [40CFR 63 Subpart X, #01, 1-29-1999]; PM: (9) [RULE 405, 2-7-1986]	D323.1
HOPPER, CUPOLA FURNACE FEED, EMERGENCY A/N: 548251	D127			LEAD: (10) [40CFR 63 Subpart X, #01, 1-29-1999]; PM: (9) [RULE 405, 2-7-1986]	D323.1
FURNACE, CUPOLA, COKE, NATURAL GAS, LEAD SLAG AND LEAD ACID BATTERY SCRAP, 4 MMBTU/HR A/N: 548251	D128	C38 C39 C44	NOX: MAJOR SOURCE**; SOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; LEAD: (10) [40CFR 63 Subpart X, #01, 1-29-1999]; PM: (9) [RULE 405, 2-7-1986]; PM: 0.022 GRAINS/SCF (8A) [40CFR 60 Subpart L, 12-3-1976]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; SOX: 3.47 PPMV (3) [RULE 2011, 12-7-1995; RULE 2011, 4-9-1999]	A63.2, B59.2, B163.2, C1.2, D323.1, H116.2, K67.5 D182.6 K171.6
TAPPING PORT, LEAD A/N: 548251	D129	C38 C39 C46		LEAD: (10) [40CFR 63 Subpart X, #01, 1-29-1999]; PM: (9) [RULE 405, 2-7-1986]	D323.1
LAUNDER, LEAD, CUPOLA TAP A/N: 548251	D130	C38 C39 C46		LEAD: (10) [40CFR 63 Subpart X, #01, 1-29-1999]; PM: (9) [RULE 405, 2-7-1986]	D323.1
LAUNDER, LEAD, CUPOLA TAP A/N: 548251	D131	C38 C39 C46		LEAD: (10) [40CFR 63 Subpart X, #01, 1-29-1999]; PM: (9) [RULE 405, 2-7-1986]	D323.1
TAPPING PORT, LEAD SLAG A/N: 548251	D132	C38 C39 C46		LEAD: (10) [40CFR 63 Subpart X, #01, 1-29-1999]; PM: (9) [RULE 405, 2-7-1986]	D323.1
FUGITIVE EMISSIONS, MISCELLANEOUS, CUPOLA FURNACE THIMBLE, WITH AN AUTOMATIC FEED CHUTE COVER DOOR A/N: 548251	D133	C38 C39 C46		LEAD: (10) [40CFR 63 Subpart X, #01, 1-29-1999]; PM: (9) [RULE 405, 2-7-1986]	D323.1 E448.6

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2. Add the following new permit conditions to Section H:

(NEW)

D182.6 The operator shall test this equipment in accordance with the following specifications

A. The following test(s) shall be conducted and a written report submitted to the SCAQMD not later than 120 days of initial installation of the cupola furnace thimble automatic feed chute cover door.

B. The owner or operator shall conduct a source test of the stack outlets serving the neptune scrubber stack (device S139) and the hard lead baghouse stack (device S140) to determine the emissions to the atmosphere of the following toxic compounds:

Tests shall include, but may not be limited to, a test for:

**Total Arsenic
Total Beryllium
Total Cadmium
Total Cobalt
Total Copper
Total Lead
Total Manganese
Total Mercury
Total Nickel
Total Selenium
Total Vanadium**

C. The source tests shall be performed simultaneously on the stack outlets of device nos. S139 and S140, and they shall be performed in triplicate for each stack outlet.

D. The average of triplicate samples, obtained according to approved test methods specified in this condition, shall be used to determine compliance with Rule 1402.

E. Source tests shall be conducted while both the reverberatory furnace of device D119 and the cupola furnace of device D128 are each operating at a minimum of 80%, but not more than 100 percent, of equipment maximum capacity.

F. The operator shall record the total feed rates, each, for both the reverberatory furnace and the cupola furnace for each chronological hour which includes a source test run. This is a separate and special report with regards to the daily process weight reports reported by Exide. This special hourly process weight report shall be included in the final source test report submitted pursuant to this condition.

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- G.** The average, instantaneous process weight recorded for each test run, in tons per hour for each furnace, shall not be less than 80 percent, and no more than 100 percent, of the daily process weight limit for each furnace derived by multiplying the average source test run process weight in tons per hour by 24 hours. The process weight levels required during a set of source test runs shall not exceed the daily process weight limits in this Facility Permit for each furnace.
- H.** Exide shall plan the availability of feed materials in advance prior to each set of source tests in order to ensure compliance with the requirements in this condition.
- I.** Exide shall prepare and submit a detailed log of the elemental arsenic additions made to each of the lead refining furnaces vented to the Hard Lead Baghouse of Device C46 during each test run. This special log shall be included as part of the source test report submitted to the SCAQMD.
- J.** The special log of subpart I of this condition shall record the following information:
- Calendar date
 - Test run number
 - Test run start and stop time
 - Pot furnace identification(s)
 - Chronological time
 - Pounds of elemental arsenic charged to each pot furnace
- If no elemental arsenic is charged during any of the test runs, a statement from Exide shall be included in the source test report clearly indicating that no arsenic was charged to any of the pot furnaces during these tests.
- K.** The source tests shall be performed in accordance with ARB Method 436 - Determination of Multiple Metal Emissions from Stationary Sources.
- L.** Written notice shall be provided to the SCAQMD at least 7 days prior to testing so that an SCAQMD observer may be present during the tests.
- M.** Sampling facilities shall comply with the attached SCAQMD "guidelines for the construction of sampling and testing facilities", pursuant to rule 217.
- N.** Exide shall ensure that there are enough personnel available during each test run to collect and report all of the required information as noted in conditions A through N. Written results shall be submitted to the SCAQMD within 30 days after testing.

[RULE 1401, 1402]

[Devices subject to this condition : D128, S139, S140]

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(NEW)

E448.9 The operator shall comply with the following requirements:

- 1) The cupola furnace thimble automatic feed chute cover door shall be installed within 7 days after the issuance of this Permit to Construct.**
- 2) The cupola furnace thimble automatic feed chute cover door shall only be opened during and for the purpose of adding feed material into the cupola furnace. Records shall be kept to demonstrate compliance with this condition.**
- 3) Within 45 days of the issuance of this permit, a door position detection system, consisting of a photoelectric and/or electromechanical sensor, shall be installed at the cupola furnace thimble automatic feed chute cover door so as to indicate the door position as either open or closed.**
- 4) The door position detector (DPD) shall be connected to a data acquisition system (DAS) equipped with either a circular chart recorder or a strip chart recorder. The data acquisition system shall process the information from this system and record the chronological time and duration of each open door event.**
- 5) The time stamps from the DAS shall be synchronized with respect to the time of day, and shall be accurate to within plus or minus 180 seconds.**
- 6) The DAS shall provide an electronic signal to the chart recorder which shall record a step change in amplitude for each open door event, for the duration that the door is open.**
- 7) The DPD sensor and chart recorder device shall be electrically configured to be independent of any digital data acquisition device maintained at this facility for this same purpose.**
- 8) The chart recorder shall be installed in the control room adjacent to the furnace area easily accessible to SCAQMD personnel. Each recorded chart shall be clearly identified with the calendar date(s), starting time, and ending time, that applies to the step marks recorded on each chart. Each chart shall also be signed by the shift supervisor present on duty at the time that the chart paper is replaced in the recorder.**
- 9) A manual verification of proper functionality of the DAS and chart recorder shall be performed every two hours initially until otherwise approved in writing by the SCAQMD. Exide shall record the result of each verification in a unique log readily available to SCAQMD personnel for inspection on a daily basis. The comment section of this log shall provide an explanation of causes and corrective actions taken (if required) in all cases where the DPD, DAS and/or the chart recorder malfunctions.**

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- 10) Not later than 30 days after this condition becomes effective, Exide shall submit a revised written Standard Operating Procedure (SOP) for the operation of the Cupola furnace system for SCAQMD approval. The written SOP shall comply with all requirements stated in this permit condition. Exide shall comply with the revised written SOP unless otherwise approved in writing by the SCAQMD.
- 11) Exide shall submit monthly reports documenting each missing data event, and all operational anomalies associated with the cupola furnace feed chute automatic door cover operation.
- 12) Each report required by subpart 8 of these conditions shall be submitted electronically to the SCAQMD's Toxics Compliance Team and Refinery and Waste Management Permitting Team not later than the 10th day of the following month, for each month in the first six months following the issue date of this permit, and semiannually thereafter.
- 13) The semiannual report (required by subpart 9 of these conditions) covering January through June, inclusive, shall be submitted not later than August 31 of the same calendar year. The semiannual report covering July through December, inclusive, shall be submitted not later than February 28 of the following calendar year.
- 14) All hard copy chart records acquired pursuant to this condition shall be scanned on a daily basis into a PDF format file which cannot be edited. Exide shall keep and maintain all records required by this condition, including, but not limited to, malfunction events and recorder charts, in the hard copy and PDF file format.
- 15) All records required by this condition shall be kept onsite for a minimum of five years and made available to SCAQMD personnel upon request. For those records which are generated in an electronic format, Exide shall comply with this condition by maintaining the hard copy and electronic formats of the records for a minimum of five years.

[RULE 1401, RULE 1402]

[Devices subject to this condition : D133]

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(NEW)

K171.6 The operator shall provide to the SCAQMD the following items:

- A) Two (2) copies of the test plan shall be submitted to the Refinery and Waste Management Permitting Unit, Engineering and Compliance, not less than 30 calendar days prior to the initial test date and shall be approved by the SCAQMD before the tests commence. The plan shall include the proposed operating conditions of the equipment during each test run.**

- B) The test plan copies shall be submitted electronically in Adobe pdf file format on digital compact disc, or by email attachment, to the current permit processing engineer assigned to this facility at the time of the source test.**

- C) The total amount, in tons, of all materials charged to the rotary dryer furnace, the cupola furnace, and the refining pot furnaces during each test run shall be recorded. The measuring period for determining the process weight of throughputs shall include the period during which the test run occurred. This requirement shall apply to each test run. Exide shall also include the special data reports required in the source testing condition for this equipment.**

- D) The test plan shall be submitted for SCAQMD approval, and it shall include the following:**
 - 1. The identity of the testing laboratory.**
 - 2. A statement from the testing laboratory certifying it meets the criteria in SCAQMD Rule 304 (k).**
 - 3. A list of contaminants to be tested.**
 - 4. Testing procedures for each contaminant and a description of all sampling and analytical procedures to be used.**
 - 5. Location of points of sampling.**
 - 6. Quality assurance measures.**
 - 7. Experience in testing procedures.**
 - 8. Date(s) and time(s) of commencement of the test(s).**

- E) Upon completion of the source tests, a final report shall be submitted to the SCAQMD not later than 30 days after the source test is completed. The test report shall be submitted electronically in Adobe pdf file format on digital compact disc or by email attachment to the current permit processing engineer assigned to this facility at the time of the source test.**

[RULE 1401, RULE 1402]

[Devices subject to this condition : D128, S139, S140]