SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

ENGINEERING AND COMPLIANCE
APPLICATION PROCESSING AND CALCULATIONS

P/C

COMPANY NAME AND ADDRESS

Exide Technologies
2700 South Indiana Street
Vernon, CA 90058

ID 124838

mailing and equipment address

EQUIPMENT DESCRIPTION

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

APPLICATION NO. 516865

TITLE V FACILITY PERMIT REVISION

APPLICATION NO. 516866 (previous A/N 500786)

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. CYCLONE SEPARATOR(C143), 5'-10"DIA. X 17'-7"H.

2. SPARK ARRESTOR, FLAMEX, WITH A MODEL FMZ 4100 GAB 24 MICROPROCESSOR CONTROL SYSTEM AND BATTERY BACK-UP, EIGHT FLAMEX MODEL FUX 3001-E OPTICAL INFRARED SPARK DETECTORS AND WITH TWO FLAMEX MODEL F180 SIDEWALL WATER SPRAY NOZZLES (B176).

3. BAGHOUSE (144), US AIR FILTRATION, MODEL NO. 4-613-PTW-144-6, PULSE JET TYPE, FOUR COMPARTMENTS, 9'-8"W. X 11'-1"L. X 32'-0"H., EACH COMPARTMENT WITH 78 EXPANDED TEFLON MEMBRANE FILTER BAGS WITH TEFLON SUBSTRATES, EACH 0"-6"DIA. X 12'-0"L., AND WITH FOUR ROTARY VALVES, 1/2-H.P. EACH.

4. **HEPA FILTER DUST COLLECTOR (C183), WITH 6 PRE-FILTERS, EACH 2'-0"W. X 2'-0"L. X 0'-2"THICK AND 6 HEPA FILTERS, EACH 2'-0"W. X 2'-0"L. X 0'-11.5" THICK.**

5. EXHAUST SYSTEM WITH A 100-H.P. BLOWER VENTING A LEAD SCRAP ROTARY DRYER AND 2 SCREW CONVEYORS.

6. EXHAUST STACK (S145), 3'-0"DIA. X 69'-0"H.

APPLICATION NO. 517319 (NEW)

**HEPA VACUUM (C184), LEAD ABATEMENT, NILFISK CFM, MODEL GWD220, CANNISTER TYPE, 20 GALLON CAPACITY, 220 CFM RATED.**

HISTORY

Application Nos. 516865, 516866 and 517319 were received on 12-3-2010 and validated on 12-7-2010.

The tables below summarize the recent permit history regarding the subject equipment:

| TITLE V REVISION APPLICATION | |
|---|---|
| 516865 | Received 12/3/2010. This application is linked to A/N's 516866 and 517319. |

| ROTARY DRYER BAGHOUSE SPARK ARRESTOR | |
|---|---|
| 516866 | Received 12/3/2010 pursuant to Rule 1420.1 to install a HEPA filter on the outlet of the rotary dryer baghouse. |
| 500786 | Received 7/16/2009 to install a new spark arrestor in the rotary dryer furnace baghouse inlet. It is required by the O/A issued under case no. 3151-21. P/C issued 3-30-2010 |
| 374221 | Received 9/14/2000 for C/O by Exide for rotary dryer APCS consisting of cyclone C143 and baghouse C144. P/O F36706 issued 1/15/2001. |
| 272981 | Received 9/16/1992 -- P/C issued to GNB on 10/6/1992, P/O F10946 issued to GNB on 12/19/1997 |

| HEPA VACUUM | |
|---|---|
| 517319 | Received 12/3/2010 - no prior history |

PROCESS DESCRIPTION

Exide Technologies is a secondary lead smelter. The subject permit applications were submitted to comply with requirements in Rule 1420.1 which was adopted on November 5, 2010. The main purpose of Rule 1420.1 is to prescribe lead abatement practices required to comply with the new National Ambient Air Quality Standard for lead (lead NAAQS) of 0.15 ug/m3 at or beyond the fence line of a large battery recycler (i.e., a secondary lead smelter.)

The following sections provide details regarding these proposed projects.

## A/N 516866 ROTARY DRYER APCS

Exide has proposed to install a HEPA filter dust collector on the outlet of the rotary dryer baghouse. The purpose of this installation is to comply with Rule 1420.1 (d)(3)(A) which states that:

(d)(3) No later than July 1, 2011, install, maintain, and operate total enclosures pursuant to subdivision (e) and lead point source emission control devices pursuant to subdivision (f). The owner or operator of a large lead-acid battery recycling facility shall comply with both subparagraphs (d)(3)(A) and (d)(3)(B):

(A) Submit complete permit applications for all construction and necessary equipment within 30 days of November 5, 2010.

These applications were physically received on 12-3-2010, in compliance with this rule, but were subsequently validated in the permit system on 12-7-2010.

The secondary HEPA control is also intended to achieve compliance with Rule 1420.1 (f) which states, in part:

(f) Lead Point Source Emissions Controls

(1) The owner or operator of a large lead-acid battery recycling facility shall vent emissions from each lead point source to a lead control device that meets the requirements of this subdivision and is approved by the Executive Officer.

(2) The total facility mass lead emissions from all lead point sources shall not exceed 0.045 pounds of lead per hour. The maximum emission rate for any single lead point source shall not exceed 0.010 pounds of lead per hour. The total facility and maximum emission rates shall be determined using the most recent source tests conducted by the facility or the District.

(3) The owner or operator of a large lead-acid battery recycling facility shall install a secondary lead control device that controls lead emissions from the exhaust of the primary lead control device used for a dryer. The secondary lead control device shall be fitted with dry filter media, and the secondary lead control device shall only be used to vent the primary lead control device used for the dryer. An alternative secondary lead control method that is equally or more effective for the control of lead emissions may be used if a complete application is submitted as part of the permit application required under paragraph (d)(3) and approved by the Executive Officer.

(4) For any lead control device that uses filter media other than a filter bag(s), including, but not limited to, HEPA and cartridge-type filters, the filter(s) used shall be rated by the manufacturer to achieve a minimum of 99.97% capture efficiency for 0.3 micron particles.

Recent source tests performed by Exide's contractor on 9/14-2010 to 9/17/2010 indicate an average lead emission rate greater than 0.01 lbs/hr. The following table is from the source test report.

TABLE 3-1. TEST RESULTS

Facility: Exide Technologies
City: Los Angeles, CA
Source: Feed Dryer
Location: Stack

| TEST DATA | units | Test Results | | | |
|---|---|---|---|---|---|
| Run Number | - | Run 1 | Run 2 | Run 3 | AVG |
| Test Date | m/d/y | 9/14/10 | 9/16/10 | 9/17/10 | |
| Sampling Data* | | | | | |
| Stack Temperature | °F | 224.4 | 207.4 | 216.1 | 216 |
| Moisture | % | 10.6 | 12.7 | 14.1 | 12.5 |
| Oxygen | % v/v | 17.3 | 18.3 | 18.7 | 18.1 |
| Carbon Dioxide | % v/v | 1.41 | 1.38 | 1.33 | 1.37 |
| Gas Velocity | ft/min | 2,170 | 2,117 | 2,167 | 2,151 |
| Stack Flow Rate | acfm | 15,336 | 14,968 | 15,319 | 15,208 |
| Stack Flow Rate | dscfm | 10,573 | 10,342 | 10,260 | 10,392 |
| CARB Method 436 - Lead | | | | | |
| Total Lead | | | | | |
| Concentration | ug | 1,699 | 2,499 | 2,999 | 2,399 |
| Concentration | ug/dscm | 193.2 | 284.6 | 335.9 | 271.2 |
| Concentration | gr/dscf | 8.44E-05 | 1.24E-04 | 1.47E-04 | 1.19E-04 |
| Emission Rate | lb/hr | 0.00765 | 0.0110 | 0.0129 | 0.0105 |

* Performed during isokinetic sampling (CARB Method 436).

Since the lead emission rate is greater than 0.01 lbs/hr, a secondary HEPA control is required, as proposed.

## HEPA VACUUM

Exide plans to operate a portable canister-type vacuum sweeper that is equipped with a HEPA filter to sweep the outside areas of the facility, as is required by its current Rule 1420 compliance plan (approved May 7, 2008), and to comply with the provisions of Rule 1420.1 (h). This rule states in part:

(h) Housekeeping Requirements

No later than 30 days after November 5, 2010, the owner or operator of a large lead-acid battery recycling facility shall control fugitive lead-dust by conducting all of the following housekeeping practices:

(1) Clean by wet wash or a vacuum equipped with a filter(s) rated by the manufacturer to achieve a 99.97% capture efficiency for 0.3 micron particles in a manner that does not generate fugitive lead-dust, the following areas

at the specified frequencies, unless located within a total enclosure vented to a lead control device. Days of measurable precipitation in the following areas occurring within the timeframe of a required cleaning frequency may be counted as a cleaning:

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 AQMD Compliance staff.

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

There are no emission increases associated with the current permit applications. Therefore, emission offsets are not required.

RULE 1401

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

RULE 1420

Previous source tests have demonstrated that all APCS equipment at this facility has at least 98% control efficiency on lead emissions. Since the inlet lead emission rate of the rotary dryer baghouse is typically of 2,283 lbs/hr, it is easily expected that almost any measured outlet emission rate below 45 lbs/hr will comply with this rule. The current outlet emission rate is 0.0105 lbs/hr which corresponds to approximately 99.9995 % efficiency. The control efficiency will be even greater with the proposed HEPA filter installed.

RULE 1420.1

A source test is required to demonstrate compliance with the lead emission rate limit in Rule 1420.1 (f)(2). Permit conditions will ensure compliance with the 0.01 lbs/hr limit for lead emissions.

40CFR63 Supart X (LEAD NESHAP)

This rule requires that the outlet lead emission concentration does not exceed 2.0 mg/dscm. The last source test indicates an outlet lead concentration of 0.27 mg/dscm. Therefore compliance is expected. Permit conditions will require verification of compliance after the HEPA filter is installed.

REGULATION 30, TITLE V

This Title V revision is considered to be a minor revision because there are no emission increases and there are no additional lead NESHAP requirements being imposed under 40 CFR 63 Subpart X. A 45 day EPA review is required.

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 |

DISCUSSION

There are no emission increases expected with regards to the subject permit applications. The subject permit applications are required to comply with various parts of Rule 1420.1, as previously discussed. All equipment covered by these permit applications is required to be operational by July 1, 2011, to be in compliance with Rule 1420.1. Source tests are required with regards to the rotary dryer baghouse to verify compliance with the lead emission rate limit in this rule following installation of the new HEPA filter dust collector.

Permit conditions are required to ensure compliance with all applicable Rules and Regulations.

RECOMMENDATION

APPLICATION NO. 516865

Approve Title V Facility Permit minor revision.

APPLICATION NOS. 516866, 517319

Issue Permits to Construct subject to the following Facility Permit modifications 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:

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

APPLICATION NO. 516866 DRYER BAGHOUSE HEPA FILTER

| **Process 1 : SECONDARY METALS, LEAD SMELTING PROCESS** | | | | | |
|---|---|---|---|---|---|
| **System 2: FEED DRYING SYSTEM** | | | | | |
| **Equipment** | **ID No.** | **Connected To** | **RECLAIM Source Type/ Monitoring Unit** | **Emissions* And Requirements** | **Conditions** |
| BAGHOUSE, WITH 100-H.P. BLOWER, WITH EXPANDED TEFLON MEMBRANE BAGS WITH TEFLON SUBSTRATES, 5881 SQ. FT.; 312 BAGS<br>A/N 500786<br>Permit to Construct Issued 03/30/10 | C144 | C143 S145 | | **LEAD (10) [40CFR 63 Subpart X,#01, 1-29-1999]; PM: (9) [RULE 405, 2-7-1986]** | C6.2, D12.5, D12.6, D381.1, E102.1, E193.1, H116.1, H116.2, H116.4, K67.2 |
| INJECTOR, SIDEWALL WATER SPRAY, WITH 2 FLAMEX F180 NOZZLES, WITH SPARK ARRESTOR CONTROLLER, FLAMEX MODEL FMZ 4100 GAB 24, A BATTERY BACK-UP, AND 8 FLAMEX FUX 3001-E OPTICAL INFRARED SPARK DETECTORS<br>A/N 500786<br>Permit to Construct Issued 03/30/10 | B176 | | | | E448.6 |
| **DUST COLLECTOR, HEPA, WITH 6 PRE-FILTERS, EACH 2'-0"W. X 2'-0"L. X 0'-2"THICK, WITH 6 HEPA FILTERS, EACH 2'-0"W. X 2'-0"L. X 0'-11.5" THICK.**<br>**A/N 516866**<br>**Draft** | **C183** | **C144 S145** | | **LEAD (10) [40CFR 63 Subpart X,#01, 1-29-1999]; PM: (9) [RULE 405, 2-7-1986]** | **D12.14, D182.1,** D323.1, H116.3, **K171.4** |
| STACK, HEIGHT: 69 FT; DIAMETER: 3 FT<br>A/N 500786<br>Permit to Construct Issued 03/30/10 | S145 | C144 | | | |

| Process 3 :WASTE HANDLING | | | | | |
|---|---|---|---|---|---|
| System 12: PORTABLE VACUUM SWEEPING SYSTEM | | | | | |
| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions* And Requirements | Conditions |
| FLOOR SWEEP, WALK BEHIND VACUUM SWEEPER, LEAD ABATEMENT, TENNANT, MODEL 3640E, 1-H.P. ELECTRIC 2'-8"W. X 4'-8"L. X 3'-2"H., WITH A HEPA FILTER<br>A/N 501062<br>Permit to Construct Issued 03/30/10 | C181 | | | **LEAD** (10) **[40CFR 63 Subpart X,#01**, 1-29-1999]; **PM:** (9) **[RULE 404, 2-7-1986]** | E448.4, K171.3 |
| **FLOOR SWEEP, HEPA VACUUM, LEAD ABATEMENT, NILFISK CFM, MODEL GWD220, CANNISTER TYPE, 20 GALLON CAPACITY, 220 CFM RATED.<br>A/N 517319<br>Draft** | **C184** | | | **LEAD (10) [40CFR 63 Subpart X,#01, 1-29-1999]; PM: (9) [RULE 404, 2-7-1986]** | **E448.4, K171.3** |

2. Add all existing permit conditions, as required, for new devices appearing in Section H as a result of the current changes, and add the following new or modified permit conditions to Section H:

## FACILITY CONDITIONS

F52.1 This facility is subject to the applicable requirements of the following rules or regulation(s):

Rule 1420.1

[RULE 1420.1, 11-5-2010]

## DEVICE CONDITIONS

### C. Throughput or Operating Parameter Limits

C6.2 The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, does not exceed 400 Deg F.

To comply with this condition, the operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature in the baghouse inlet duct, in degrees Fahrenheit.

The operator shall also install and maintain a device to continuously record the parameter being measured.

The measuring device or gauge shall be accurate to within plus or minus 30 degrees Fahrenheit. It shall be calibrated once every 12 months.

**[RULE 1303(a)(1)-BACT, 5-10-1996]**

[Devices subject to this condition : C144]

D12.5 The operator shall install and maintain a(n) triboelectric-type broken bag detector to accurately indicate the existence of a leak in the baghouse bags.

The measuring device or gauge shall be accurate to within the limits defined in the calibration protocol from the manufacturer. It shall be calibrated once every 12 months.

The continuous monitoring system shall include visual and audio alarms.

**[RULE 1303(a)(1)-BACT, 5-10-1996;** RULE 1407, 7-8-1994]

[Devices subject to this condition : C144]

D12.6 The operator shall install and maintain a(n) differential pressure gauge to accurately indicate the differential pressure across the bags, in inches water column.

**[RULE 1303(a)(1)-BACT, 5-10-1996;** RULE 1407, 7-8-1994]

[Devices subject to this condition : C46, C48, C144, C156, C157]

**(NEW)**
**D12.18 The operator shall install and maintain a(n) differential pressure gauge to accurately indicate the differential pressure across the HEPA filter dust collector, in inches water column.**

**The pressure differential across the HEPA filter dust collector shall not exceed 3.0 inches water column.**

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1420, 9-11-1992]**

**[Devices subject to this condition : C183]**

**(NEW)**
**D182.4 The operator shall test this equipment in accordance with the following specifications:**

**A) The test(s) shall be conducted and a written report submitted to the AQMD not later than 180 days of the construction of the enclosure of the HEPA filter dust collector.**

**B) The test(s) shall measure the emissions of lead at the outlet of the HEPA filter dust collector. Triplicate source tests shall be conducted in accordance with the requirements set forth by Rule 1420.1 (k).**

**C) Triplicate source tests shall be conducted for exhaust gas lead concentration in the HEPA filter exhaust outlet, pursuant to 40CFR 63 Subpart X. The outlet tests in part B of this condition may be used to fulfill this requirement if equivalency in testing methods can be demonstrated to satisfy the requirements of both rules.**

**D) The tests shall be conducted while the Rotary Dryer Furnace is operated under normal operating conditions.**

**E) The source tests shall be performed by a qualified testing laboratory and conducted in accordance with acceptable district procedures.**

**F) The Rule 1420.1 source tests shall be conducted by a qualified testing contractor approved for Rule 1420.1 testing.**

**G) Written notice shall be provided to the AQMD at least 10 days prior to testing so that an AQMD observer may be present during the tests, if the AQMD decides to have an observer present.**

**H) Sampling facilities shall comply with the District "guidelines for the construction of sampling and testing facilities", pursuant to rule 217.**

**I) Written results shall be submitted to the AQMD within 60 days after testing.**

**[RULE 1420.1, 11-5-2010]**

**[Devices subject to this condition : C183]**

D323.1 The operator shall conduct an inspection for visible emissions from all stacks and other emission points of this equipment whenever there is a public complaint of visible emissions, whenever visible emissions are observed, and on a semi-annual basis, at least, unless the equipment did not operate during the entire semi-annual period. The routine semi-annual inspection shall be conducted while the equipment is in operation and during daylight hours.

If any visible emissions (not including condensed water vapor) are detected that last more than three minutes in any one hour, the operator shall verify and certify within 24 hours that the equipment causing the emission and any associated air pollution control equipment are operating normally according to their design and standard procedures and under the same conditions under which compliance was achieved in the past, and either:

1). Take corrective action(s) that eliminates the visible emissions within 24 hours and report the visible emissions as a potential deviation in accordance with the reporting requirements in Section K of this permit; or

2). Have a CARB-certified smoke reader determine compliance with the opacity standard, using EPA Method 9 or the procedures in the CARB manual "Visible Emission Evaluation", within three business days and report any deviations to AQMD.

The operator shall keep the records in accordance with the recordkeeping requirements in Section K of this permit and the following records:

1). Stack or emission point identification;

2). Description of any corrective actions taken to abate visible emissions;

3). Date and time visible emission was abated; and

4). All visible emission observation records by operator or a certified smoke reader.

**[RULE 3004(a)(4)-Periodic Monitoring, 8-11-1995]**

[Devices subject to this condition : D7, D9, D11, D13, D15, D17, D19, D24, D26, D28, D30, D32, D34, D36, C159, D161, C162, D164, C165, C172]

D381.1 The operator shall conduct an inspection for visible emissions from all stacks and other emission points of this equipment whenever there is a public complaint of visible emissions, whenever visible emissions are observed, and on a quarterly basis, at least, unless the equipment did not operate during the entire quarterly period. The routine quarterly inspection shall be conducted while the equipment is in operation and during daylight hours. If any visible emissions (not including condensed water vapor) are detected, the operator shall take corrective action(s) that eliminates the visible emissions within 24 hours and report the visible emissions as a potential deviation in accordance with the reporting requirements in Section K of this permit.

The operator shall keep the records in accordance with the recordkeeping requirements in Section K of this permit and the following records:

1). Stack or emission point identification;

2). Description of any corrective actions taken to abate visible emissions; and

3). Date and time visible emission was abated.

**[RULE 3004(a)(4)-Periodic Monitoring, 8-11-1995]**

[Devices subject to this condition : C39, C46, C48, S142, C144, C156, C157, S158]

## E. Equipment Operation/Construction Requirements

E102.1 The operator shall discharge dust collected in this equipment only into closed containers.

**[RULE 1303(a)(1)-BACT, 5-10-1996;** RULE 1420, 9-11-1992]

[Devices subject to this condition : C39, C46, C48, C144, C156, C157, C159, C160, C162, C163]

E193.1 The operator shall operate and maintain this equipment according to the following requirements:

A. The triboelectric-type broken bag detector shall be maintained in full operation whenever the equipment it serves is in operation

B. The operator shall operate and maintain the triboelectric-type broken bag detector with a continuous monitoring system consisting of visual and audible alarms.

C. A printout of the high level alarm log shall be generated from the computer system interfaced with each broken bag detector system each calendar day. This printout shall be saved as a hard copy, or saved in electronic TIFF or PDF format each day. This printout shall display, in graphical form, the analog output signal from the triboelectric sensor.

D. The detector shall be maintained in accordance with the specifications defined in the operating instructions from the manufacturer. The detector zero point calibration shall be performed not less than once every twelve months in accordance with the procedures specified by the manufacturer, as submitted under Application No. 466858, and/or as amended.

E. Whenever the manufacturer(s) or current procedure(s) for setting the annual zero point on the triboelectric-type broken bag detectors changes, the operator shall submit a revised set of written procedures to the AQMD and shall make these procedures and associated records available upon request by AQMD personnel.

F. For the purpose of this condition, a deviation shall be defined as the indication by the triboelectric-type broken bag detector alarm of the existence of a leak in the baghouse bags during the operation of the equipment it serves.

G. Whenever a deviation occurs, the operator shall inspect this equipment to identify the cause of such a deviation, take immediate corrective action, and keep records of the duration and cause (including unknown cause, if applicable) of the deviation and the corrective actions taken.

H. All deviations shall be reported to the AQMD on a semi-annual basis pursuant to the requirements specified in 40 CFR Part 64.9 and Condition Nos. 22 and 23 in Section K of this permit. The semi-annual monitoring report shall include the total operating time of this equipment and the total accumulated duration of all deviations for each semi-annual reporting period specified in Condition No. 23 in Section K of this permit.

I. The operator shall submit an application with a Quality Improvement Plan (QIP) in accordance with 40 CFR Part 64.8 to the AQMD if more than six deviations occur in any semi-annual reporting period specified in Condition No. 23 in Section K of this permit. The required QIP shall be submitted to the AQMD within 90 calendar days after the due date for the semi-annual monitoring report.

J. The operator shall inspect and maintain all components of this equipment on an annual basis in accordance with the manufacturer's specifications.

K. The operator shall keep adequate records in a format that is acceptable to the AQMD to demonstrate compliance with all applicable requirements specified in this condition and 40 CFR 64.9 for a minimum of five years.

[RULE 1407, 7-8-1994; RULE 1420, 9-11-1992; **40CFR 63 Subpart X, 6-23-2003; 40CFR Part 64, 10-22-1997**]

[Devices subject to this condition : C39, C46, C144]

E448.4 The operator shall comply with the following requirements:

1) The HEPA filters used in this equipment shall be certified by the manufacturer to have a minimum control efficiency of 99.97 percent on 0.3 micron particles.

2) Dust collected in this equipment shall only be discharged into containers which shall be maintained closed after the disposal of dust from this equipment.

3) After use and/or whenever maintenance is performed on the HEPA vacuum sweeper, this equipment shall only be disassembled, emptied and/or cleaned within a total enclosure building which is vented to air pollution control system(s) which are in full use and which have been issued Permits to Construct and/or Operate by the Executive Officer of the AQMD.

4) Visible emissions shall not be discharged from any point on this equipment.

5) Identification tag(s) or name plate(s) shall be displayed on this equipment to show manufacturer model no. and serial no. The tag(s) or name plate(s) shall be affixed to this equipment in a permanent and conspicuous location.

[RULE 1420, 9-11-1992]

[Devices subject to this condition : C181]

E448.6 The operator shall comply with the following requirements:

1) The spark arrestor system shall be in full operation whenever the rotary dryer baghouse (device C144) is in operation.

2) The spark arrestor system shall be tested and calibrated not less than once per year, and more often if necessary, to ensure the system is functioning properly.

[RULE 1420, 9-11-1992]

[Devices subject to this condition : B176]

**H. Applicable Rules**

H116.1 The operator shall ensure that the exhaust system conforms to design and operation specifications given in the most current edition of "Industrial Ventilation, Guidelines and Recommended Practices", published by the American Conference of Governmental and Industrial Hygienists (20th edition or thereafter) in order to comply with Rules 1407 and 1420 whenever the equipment vented by this air pollution control system is in operation.

[RULE 1407, 7-8-1994; RULE 1420, 9-11-1992]

[Devices subject to this condition : C46, C144, C156, C157]

H116.2 The operator shall be subject to the requirements stated in Rules 1407 and 1420 in order to comply with these rules whenever this equipment is in operation.

[RULE 1407, 7-8-1994; RULE 1420, 9-11-1992]

[Devices subject to this condition : D7, D9, D11, D13, D15, D17, D19, D24, D26, D28, D30, D32, D34, D36, C39, C46, C144]

H116.3 The operator shall ensure that the exhaust system conforms to design and operation specifications given in the most current edition of "Industrial Ventilation, Guidelines and Recommended Practices", published by the American Conference of Governmental and Industrial Hygienists (20th edition or thereafter) in order to comply with Rule 1420 whenever the equipment vented by this air pollution control system is in operation.

[RULE 1420, 9-11-1992]

[Devices subject to this condition : C48, C159, C160, C162, C163, C165, C172]

H116.4 The operator shall ensure that the bag and/or filter leak detection system meets the requirements of 40 CFR Part 63, Subpart X, Sections 63.548 (e) (1) through (e) (8), and shall follow the procedures outlined in the USEPAs Fabric Filter Bag Leak Detection Guidance dated September 1997 or any revisions thereafter in order to comply with the National Emission Standards for Secondary Lead Smelting whenever this equipment is in operation.

**[40CFR 63 Subpart X, 6-23-2003; 40CFR Part 64, 10-22-1997]**

[Devices subject to this condition : C39, C46, C144, C156, C157]

**K. Record Keeping/Reporting**

K67.2 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

The calendar dates on which triboelectric-type broken bag detector calibrations are performed.

A copy of the protocol from the manufacturer used to calibrate the triboelectric-type broken bag detector

Records from the baghouse inlet temperature recording device.

The calendar dates on which the baghouse inlet temperature indicating and recording device is calibrated.

**[RULE 1303(a)(1)-BACT, 5-10-1996;** RULE 1407, 7-8-1994]

[Devices subject to this condition : C144]

K171.3 The operator shall provide to the District the following items:

The operator shall keep and maintain the following information and provide it upon request of District personnel.

1) The information required by condition E448.4 part 5.

2) The number of working hours per day involving lead removal.

3) The date and time of each HEPA filter replacement.

4) A copy of the manufacturer's certification of efficiency for the HEPA filter(s).

[RULE 1420, 9-11-1992]

[Devices subject to this condition : C181]

**(NEW)**
**K171.4** **The operator shall provide to the District 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 60 calendar days prior to the initial test date and shall be approved by the District 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 mpolo@aqmd.gov**

**C) The total amount, in tons, of all materials charged to the Rotary dryer Furnace 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.**

**D) The test plan shall be submitted for District 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 District 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) The source tests shall be completed, and a final report submitted to the District, not later than 180 days after the installation of the new HEPA filter dust collector is completed. The test report shall be submitted electronically in Adobe pdf file format on digital compact disc or by email attachment to mpolo@aqmd.gov**

**[RULE 1420.1, 11-5-2010]**

**[Devices subject to this condition : C183]**