

FACILITY PERMIT TO OPERATE EXIDE TECHNOLOGIES

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: SECONDARY METALS, LEAD SMELTING PROCESS					
System 6: FUGITIVE DUST CONTROL SYSTEM					
DUST COLLECTOR, WITH 208 CARTRIDGE FILTERS, EACH 1 FT.-2 IN. DIA., 2 FT. - 2 IN. L., NORTH TORIT, MODEL DFT-4-208, WITH A 250 HP BLOWER AND A TRIBOELECTRIC-TYPE BROKEN FILTER DETECTOR A/N 520575 Draft	C38	D7 D8 D9 D10 D11 D12 D13 D14 D15 D16 D17 D18 D19 D20 D24 D25 D26 D27 D28 D29 D30 D31 D32 D33 D34 D35 D36 D37 D117 D118 D119 D120 D121 D122 D123 D124 D125 D128 D129 D130 D131 D132 D133 C179 C186 S187		LEAD (10) [40CFR 63 Subpart X,#01, 1-29-1999]; PM: (9) [RULE 404, 2-7-1986]	D12.1 D12.17 D182.3 D381.1 E71.2 E71.3 E102.1 E193.1 H116.2 H116.4 K67.1 K171.1
DUST COLLECTOR, HEPA, 4 SECTIONS, WITH 60 PRE-FILTERS TOTAL, EACH 2'-0"W. X 2'-0"L. X 0'-2"THICK, WITH 60 HEPA FILTERS TOTAL, EACH 2'-0"W. X 2'-0"L. X 0'-11.5" THICK. A/N 520575 Draft	C189	C38 S187		LEAD (10) [40CFR 63 Subpart X,#01, 1-29-1999]; PM: (9) [RULE 404, 2-7-1986]	D12.19, D323.1 E102.1 H116.1
STACK, HEIGHT: 120 FT; DIAMETER: 7 FT A/N 520575 Draft	S187	C189			D182.5, D381.1, K171.5

* (1) (1A) (1B) Denotes RECLAIM emission factor (2) (2A) (2B) Denotes RECLAIM emission rate
 (3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
 (5) (5A) (5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (9) See App B for Emission Limits (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: SECONDARY METALS, LEAD SMELTING PROCESS					
System 6: FUGITIVE DUST CONTROL SYSTEM					
DUST COLLECTOR, WITH 208 CARTRIDGE FILTERS, EACH 1 FT.-2 IN. DIA., 2 FT. - 2 IN. L., SOUTH TORIT, MODEL DFT-4-208, WITH A 250 HP BLOWER AND A TRIBOELECTRIC-TYPE BROKEN FILTER DETECTOR A/N 520577 Draft	C39	D7 D8 D9 D10 D11 D12 D13 D14 D15 D16 D17 D18 D19 D20 D24 D25 D26 D27 D28 D29 D30 D31 D32 D33 D34 D35 D36 D37 D117 D118 D119 D120 D121 D122 D123 D124 D125 D128 D129 D130 D131 D132 D133 C179 C186 S188		LEAD (10) [40CFR 63 Subpart X,#01, 1-29-1999]; PM: (9) [RULE 404, 2-7-1986]	D12.1 D12.17 D182.3 D381.1 E71.2 E71.3 E102.1 E193.1 H116.2 H116.4 K67.1 K171.1
DUST COLLECTOR, HEPA, 4 SECTIONS, WITH 60 PRE-FILTERS TOTAL, EACH 2'-0"W. X 2'-0"L. X 0'-2"THICK, WITH 60 HEPA FILTERS TOTAL, EACH 2'-0"W. X 2'-0"L. X 0'-11.5" THICK. A/N 520577 Draft	C190	C39 S188		LEAD (10) [40CFR 63 Subpart X,#01, 1-29-1999]; PM: (9) [RULE 404, 2-7-1986]	D12.19, D323.1 E102.1 H116.1
STACK, HEIGHT: 120 FT; DIAMETER: 7 FT A/N 520577 Draft	S188	C190			D182.5, D381.1, K171.5

* (1) (1A) (1B) Denotes RECLAIM emission factor (2) (2A) (2B) Denotes RECLAIM emission rate
 (3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
 (5) (5A) (5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (9) See App B for Emission Limits (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

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The operator shall comply with the terms and conditions set forth below:

FACILITY CONDITIONS

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

Rule 1420.1

A. The total facility mass lead emissions from all lead point sources shall not exceed 0.045 pounds of lead per hour.

B. The total facility and maximum emission rates shall be determined using the most recent source tests conducted by the facility or the District.

[RULE 1420.1, 11-5-2010]

DEVICE CONDITIONS

D. Monitoring/Testing Requirements

D12.1 The operator shall install and maintain a(n) triboelectric-type broken bag detector to accurately indicate the existence of a leak in the cartridge filters.

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]

[Devices subject to this condition: C38, C39]

D12.17 The operator shall install and maintain a(n) differential pressure gauge to accurately indicate the differential pressure across the cartridge filters, in inches water column.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition: C38, C39]

FACILITY PERMIT TO OPERATE EXIDE TECHNOLOGIES

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

D12.19 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 4.0 inches water column.

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

[Devices subject to this condition: C189, C190]

D182.3 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 initial installation of the new HEPA dust collectors.

B) The test(s) shall measure the emissions of lead at the inlet of the cartridge filter dust collector and the outlet of the HEPA filter dust collector. Triplicate source tests shall be conducted simultaneously on the inlet and outlet of the dust collectors in accordance with the requirements set forth by rule 1420 (e)(2) and 1420.1 (k).

C) Triplicate source tests shall be conducted for exhaust gas lead concentration in the HEPA dust collector 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 all applicable rules.

D) The tests shall be conducted while the reverberatory, cupola, and lead refining pot furnaces are operated under normal operating conditions.

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

F) The rule 1420 source tests shall be conducted by a qualified testing contractor approved for rule 1420 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.

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The operator shall comply with the terms and conditions set forth below:

H) Sampling facilities shall comply with the attached 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 1407, 7-8-1994; RULE 1420, 9-11-1992; RULE 1420.1, 11-5-2011; **40CFR 63 Subpart X, 6-23-2003**]

[Devices subject to this condition: C38 C39]

D182.5 The operator shall test this equipment in accordance with the following specifications:

A. The owner or operator shall conduct a source test of all stack outlets serving air pollution control systems controlling sources of lead emissions at least annually to demonstrate compliance with the control standards specified in Rule 1420.1 (f), and with the source test requirements in Rule 1420.1 (k).

B. If the results of the most recent source test for a lead point source demonstrating compliance with the lead emission standard of Rule 1420.1 (f) demonstrate emissions of 0.0025 pounds of lead per hour or less, the next test for that lead point source shall be performed no later than 24 months after the date of the most recent test.

C. The source tests shall measure the emissions of total lead discharged to the atmosphere and 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 1420.1.

E. Source tests shall be conducted while operating at a minimum of 80% of equipment maximum capacity and in accordance with any of the following applicable test methods:

(1) SCAQMD Method 12.1 - Determination of Inorganic Lead Emissions from Stationary Sources Using a Wet Impingement Train

(2) ARB Method 12 - Determination of Inorganic Lead Emissions from Stationary Sources

(3) EPA Method 12 - Determination of Inorganic Lead Emissions from Stationary Sources

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The operator shall comply with the terms and conditions set forth below:

(4) ARB Method 436 - Determination of Multiple Metal Emissions from Stationary Sources

F. The maximum emission rate for any single stack shall not exceed 0.010 pounds of lead per hour.

G. The total facility and maximum emission rates shall be determined using the most recent source tests conducted by the facility or the District.

[RULE 1420.1, 11-5-2010]

[Devices subject to this condition: S145, S158, S187, S188]

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;

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The operator shall comply with the terms and conditions set forth below:

- 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, C184, C189, C190]

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: C38, C39, C46, C48, S142, S145, C144, C156, C157, S158, S187, S188]

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The operator shall comply with the terms and conditions set forth below:

E. Equipment Operation/Construction Requirements

E71.2 The operator shall only use fire retardant filter media in this equipment during operation.

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

[Devices subject to this condition: C38, C39]

E71.3 The operator shall only operate this equipment if a spark suppression system with a spark detector is fully operational and properly maintained in this equipment.

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

[Devices subject to this condition: C38, C39]

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: C38, C39, C46, C48, C144, C156, C157, C159, C160, C162, C163, C189, C190]

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.

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The operator shall comply with the terms and conditions set forth below:

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.

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The operator shall comply with the terms and conditions set forth below:

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: C38, C39, C46, C144]

E448.1 The operator shall comply with the following requirements:

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

B. Copies of the HEPA filter certifications shall be kept and maintained on file for a minimum of 5 years and shall be provided to District personnel upon request.

[RULE 1407, 7-8-1994; RULE 1420, 9-11-1992; RULE 1420.1, 11-5-2011; **40CFR 63 Subpart X, 6-23-2003**]

[Devices subject to this condition: C38, C39]

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, C189, C190]

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The operator shall comply with the terms and conditions set forth below:

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, C38, C39, C46, C144]

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: C38, C39, C46, C144, C156, C157]

K. Record Keeping/Reporting

K67.1 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 calibrations of the triboelectric-type broken filter detector are performed.

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

Documentation from the manufacturer certifying that all filter media used in this equipment is fire retardant.

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

[Devices subject to this condition: C38, C39]

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The operator shall comply with the terms and conditions set forth below:

K171.1 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 total amount, in tons, of all materials charged to the reverberatory and cupola 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.

C) A 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).

D) With respect to the devices listed in this condition, the source tests shall be completed and a final report submitted to the AQMD not later than 180 days of initial installation of the new HEPA filters (device nos. C189 and C190), and/or the installation of the PTFE membrane filter bags (device nos. C156 and C157), respectively.

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The operator shall comply with the terms and conditions set forth below:

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

[Devices subject to this condition: C38, C39, C156, C157]

K171.5 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 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, the refining pot furnaces, and the RMPS battery crusher 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.

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The operator shall comply with the terms and conditions set forth below:

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 District not later than 60 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 1420.1, 11-5-2010]

[Devices subject to this condition: S145, S158, S187, S188]