

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:

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 A/N 500786 Permit to Construct Issued 03/30/10	C144	C143 S145		LEAD (10) [40CFR 63 Subpart X, #01, 1-29-1999]; PM: (9) [RULE 404, 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 A/N 500786 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. A/N 516866 Draft	C183	C144 S145		LEAD (10) [40CFR 63 Subpart X, #01, 1-29-1999]; PM: (9) [RULE 404, 2-7-1986]	D12.18, D182.4, D323.1, H116.3, K171.4
STACK, HEIGHT: 69 FT; DIAMETER: 3 FT A/N 500786 Permit to Construct Issued 03/30/10	S145	C144			

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

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 A/N 501062 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. A/N 517319 Draft	C184			LEAD (10) [40CFR 63 Subpart X,#01, 1-29-1999]; PM: (9) [RULE 404, 2-7-1986]	E448.4, K171.3

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

[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]

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

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]

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SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

(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]

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

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]

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

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]

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

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

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

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.

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

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.

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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]

[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.

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

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

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

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]