

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

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P/C

COMPANY NAME AND ADDRESS

Quemetco, Inc.
720 South Seventh Avenue
City of Industry, CA 91746

ID 8547
mailing and equipment address

EQUIPMENT DESCRIPTION

APPLICATION NO. 525799

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. BAGHOUSE NO. K, BUSCH INTERNATIONAL, MODEL MRV80, 11'-4"W. X 24'-7"L. X 19'-9"H., WITH 196 PTFE MEMBRANE TYPE FILTER BAGS, EACH 0'-6-1/4"DIA. X 13'-0"L., AND WITH 25 HEPA FILTERS, EACH 2'-0"W. X 1'-0"L. X 2'-0"H., PULSE JET CLEANED.
2. EXHAUST SYSTEM WITH A 125-H.P. BLOWER VENTING THE BATTERY WRECKER TOTAL ENCLOSURE BUILDING.

APPLICATION NO. 525800

TITLE V FACILITY PERMIT REVISION

HISTORY

Application Nos. 525799 and 525800 were received on 8/4/2011. A/N 525799 was received as Class I for a Permit to Construct a room ventilation baghouse. The proposed baghouse is new construction with no prior history. A/N 515800 is the Title V Minor Revision application which will be used to update the Title V permit pursuant to the requested changes.

PROCESS DESCRIPTION

BACKGROUND

Some sources of lead emissions in the SCAQMD currently have fence line lead concentrations which vary in the approximate range of 0.1 to 1.5 ug/m³. An average range would be closer to 0.5 to 0.7 ug/m³, (30 day averages.)

However, on October 15, 2008, EPA substantially strengthened the national ambient air quality standards (NAAQS) for lead. The revised standards are 10 times more stringent than the previous standards.

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EPA has revised the level of the primary (health-based) standard from 1.5 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$), to $0.15 \mu\text{g}/\text{m}^3$, measured as total suspended particles (TSP). EPA has revised the secondary (welfare-based) standard to be identical in all respects to the primary standard.

To ensure compliance with this new requirement, the District adopted Rule 1420.1 on November 5, 2010. Equipment and emission requirements in this rule became effective on July 1, 2011, and the new, lower ambient lead concentration standard is effective on January 1, 2012.

CURRENT PROJECT

The proposed baghouse is intended to control fugitive emissions from equipment which is already controlled. This baghouse is therefore, in essence, a "housekeeping" baghouse. This baghouse may result in an overall reduction in emissions of air contaminants in some instances. However, in the worst case, it is expected to produce an insignificant emissions reduction.

The new baghouse (Busch Unit K) will control fugitive emissions from a new building which encloses the entire operation of the battery wrecking and conveying system. This enclosure is intended to assist in compliance with new, more stringent standards in the National Ambient Air Quality Standard for lead (Pb NAAQS), and to comply with Rule 1420.1. There is currently an existing room ventilation baghouse (Busch Unit J) venting the battery breaking area enclosure.

The subject equipment is operated 24 hours/day, 7 days/week and 52 weeks/year.

CALCULATIONS

GIVEN: _____

Applicant's Data

For each baghouse:

Max exhaust blower capacity: 50,000 CFM
Filter bag dimensions: Dia. = 6.25 inches
L. = 13.0 feet
N. = 196

operating schedule: 24 hours/day
7 days/week
52 weeks/year

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CALCULATIONS

1. Air-to-cloth ratio (AR)

$$\text{AR (each baghouse)} = (\text{CFM})/(\text{N})(3.14159)(\text{D})(\text{L})$$

$$\text{AR} = (50,000 \text{ ft}^3/\text{min})/(196)(3.14159)(0.5208 \text{ ft})(13.0 \text{ ft})$$

$$\text{AR} = 12.0 \text{ ft/min}$$

2. Previous Rule 1420 source test data on existing room ventilation baghouses.

RECLAIM DEVICE ID	A/N	QUEMETCO ID	TEST REPORT ID	TEST DATE	RUN NO.	INLET LEAD CONC. ug/M^3	OUTLET LEAD CONC. ug/M^3	INLET LEAD EMISSIONS LBS/HR	OUTLET LEAD EMISSIONS LBS/HR	CONTROL EFF. PERCENT	AVERAGE CONTROL EFF. PERCENT	OUTLET EXHAUST DSCFM
C26	243721	00FA	A	8/21/1997	A1	1179	32	0.1548	0.0044	97.158		36336
				8/21/1997	A2	64	3	0.0084	0.0005	94.048		38736
				8/22/1997	A3	46	2	0.0059	0.0003	94.915	95.37	37897
C27	243722	00FB	B	8/22/1997	B1	74	3	0.0092	0.0004	95.652		37513
				8/25/1997	B2	150	26	0.0187	0.0035	81.283		35229
				8/25/1997	B3	197	2	0.0246	0.0003	98.780	91.91	37302
C28	243723	00FC	C	6/10/1997	C1	1369	8	0.1700	0.0009	99.471		32052
				6/11/1997	C2	4241	3	0.5274	0.0004	99.924		32311
				9/26/1997	C3	2825	13	0.3496	0.0016	99.542	99.65	32337
C29	243724	00FD	D	8/18/1997	D1	12603	4	1.5615	0.0005	99.968		33164
				8/19/1997	D2	8889	150	0.9671	0.0163	98.315		29169
				8/20/1997	D3	1442	2	0.1818	0.0002	99.890	99.39	32398
C30	259468	00DBE	E	6/16/1997	F1	2248	9	0.3247	0.0014	99.569		40292
				6/17/1997	F2	844	6	0.1049	0.0008	99.237		38402
				6/18/1997	F3	1349	4	0.1901	0.0006	99.684	99.50	40831
C31	259469	00DCF	F	9/17/1997	G1	3197	289	0.3548	0.0408	88.501		37696
				9/18/1997	G2	2836	14	0.2917	0.0020	99.314		39170
				9/19/1997	G3	4230	10	0.4854	0.0016	99.670	95.83	42770
C32	259470	00DAG	G	9/22/1997	E1	3955	107	0.5592	0.0183	96.727		45450
				9/23/1997	E2	6798	15	0.9528	0.0025	99.738		44682
				9/24/1997	E3	4038	16	0.5694	0.0025	99.561	98.68	42430
C33	275629	00BEH	H	9/15/1997	H1	940	13	0.1559	0.0024	98.461		49862
				9/15/1997	H2	1755	23	0.2821	0.0043	98.476		49082
				9/16/1997	H3	1321	11	0.1924	0.0019	99.012	98.65	46468
C34	275631	00BWI	I	9/23/1997	I1	163	13	0.0214	0.0014	93.458		30232
				9/24/1997	I2	629	184	0.0809	0.0212	73.795		30777
				9/25/1997	I3	725	18	0.0814	0.0020	97.543	88.27	30120

Note: For triplicate runs in which the average control efficiency was less than 98%, the AQMD source test evaluation group approved either single runs with an efficiency of 98 %, and/or re-runs of tests which demonstrated compliance with the performance standards in Rule 1420. The periodic low numbers are due to low inlet grain loading. Since the control efficiency is demonstrated to be 98 % with sufficient grain loading and since each baghouse is equipped with HEPA filters, each of these control systems is considered to be TBACT and would therefore qualify for an AECM approval in Rule 1407, if necessary. (see John Higuchi memo dated 6/25/1999 in A/N 488106.)

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3. Recent Source Test Data (averages of all runs for each given test)

TOTAL FACILITY STACK OUTLET LEAD EMISSIONS AS OF 11/2010

DESCRIPTION	DEVICE ID	TEST DATE	Pb, R2, LBS/HR
Busch Unit A	C26	4/28/2009	0.0000866
Busch Unit B	C27	2/27/2008	0.0003360
Busch Unit C	C28	2/27/2008	0.0002560
Busch Unit D	C29	4/28/2009	0.0000872
Busch Unit E	C30	3/14/2008	0.0009260
Busch Unit F	C31	4/23/2009	0.0001420
Busch Unit G	C32	4/28/2009	0.0003660
Busch Unit H	C33	3/14/2008	0.0003520
Busch Unit I	C34	4/23/2009	0.0000794
WESP Stack	S159	11/15/2010	0.0004600
Busch Unit J	C168	TBD	0.0002924
Busch Unit K	C170	TBD	0.0002924
		TOTAL, R2, LBS/HR	0.0036759
		TOTAL, R2, LBS/DAY	0.0882219
		TOTAL, R2, LBS/YR	32.201
		AB2588 REPORT 2010, LBS/YR	11.210

ESTIMATED
ESTIMATED

EVALUATION

CEQA

Based on the CEQA form submitted with this application, this project is not subject to a CEQA evaluation.

RULE 212

Since this project will not result in an emissions increase and since this facility is not located within 1,000 feet from the outer boundary of a school, public notice pursuant to Rule 212 is not required.

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RULE 401

Due to the nature of this equipment, visible emissions are not expected. Therefore, compliance with this rule is expected.

RULE 402

The proposed baghouse will reduce emissions of toxic air contaminants in certain cases. Since there are no emissions increases, nuisance problems are not anticipated. Therefore, compliance with this rule is expected.

RULE 404

Since the subject baghouses will be used for general room ventilation, the exhaust gas particulate concentrations are expected to be diminimus. Therefore, compliance with this rule is expected.

REGULATION XIII

A diminimus decrease in particulate emissions is expected as a result of the installation of the subject baghouses. Therefore, Regulation XIII is not applicable in this case.

BACT

Since there is no increase in air contaminants, a BACT evaluation is not required in this case.

RULE 1407

Based on the drawings previously submitted, the new total enclosure building vented by this baghouse is a structure made of corrugated sheet metal which is separate from the concrete walled main structure at Quemetco, which is a separate total enclosure. Since metallurgical fumes from lead melting are separated from this new structure, Rule 1407 does not apply in this case.

RULE 1420

Previous source test data on the nine room ventilation baghouses which vent the main building at Quemetco indicates that the average lead emissions from these nine baghouses is 0.0431 lbs/hr, which is equal to 1.0344 lbs/day. New source test data indicates that the total facility point source lead emissions are 0.0037 lbs/day. The new test data includes the two new room ventilation baghouses and the Wet Electrostatic Precipitator (WESP) stack outlet. District records do not contain information indicating why the room ventilators now have lower emission rates. In addition, Quemetco has not provided new information on the magnitude of fugitive lead emissions from this facility. To resolve the uncertainty in the actual level of total facility lead emissions, Quemetco would need to submit a new Rule 1420 compliance plan for evaluation which contains sufficient

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additional information to permit the accurate quantification of the total actual facility lead emissions. Until such a time that a new lead emissions quantification is possible, it will be assumed that this facility emits more than 0.5 lbs/day of lead emissions for the purposes of Rule 1420 evaluation.

Based on the conclusion that the emissions rate of total lead from this facility may be more than 0.5 lbs/day, this rule requires a minimum control efficiency of 98 percent on lead or 99 percent on total particulates. The existing room ventilation baghouses have been previously demonstrated to comply with the 98 percent lead control performance standard. Therefore, the new baghouse is also expected to comply with this standard. Source test conditions will require verification of compliance with this performance standard.

Rule 1420 (d) requires that the ambient lead concentration at or beyond the fence line of this facility does not exceed 1.5 ug/m³ on a 30 day average. This facility is currently in compliance with this requirement. Construction of the new enclosure will enhance the ability to comply with this requirement.

The source test condition for the existing baghouse, which also affects the new room ventilator which is now proposed for the battery wrecker enclosure, will be modified so that outlet testing for compliance with Rule 1420.1 is also required.

RULE 1420.1

The most recent monthly ambient air monitoring report submitted by Quemetco for the month of July, 2011, indicates that the fence line lead concentrations are as follows:

Station 1: 0.11 ug/m³
Station 2: 0.09 ug/m³
Station 4: 0.07 ug/m³
Station 5: 0.08 ug/m³

Since all results are less than 0.12 ug/m³, a compliance plan requirement per Rule 1420.1 (d)(4) has not occurred on or after July 1, 2011, and this facility is in compliance with the 1.5 ug/m³ 30 day average effective prior to January 1, 2012, and with the 0.15 ug/m³ 30 day average lead concentration effective on and after January 1, 2012, pursuant to subparts (d)(1) and (d)(2) of this rule.

It should be noted that prior to July, 2011, the average 30 day fence line concentrations were higher than 0.12 ug/m³ in some cases, and for this reason, Quemetco submitted a notification pursuant to subpart (g)(1) of this rule which states:

Notify the Executive Officer in writing within 72 hours of when the facility knew or should have known of exceeding an ambient air lead concentration of 0.12 ug/m³ averaged over any 30 consecutive days. Notification shall only be required for the first time the ambient air lead concentration of 0.12 ug/m³ is exceeded;

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Currently, the lead concentrations greater than 0.12 ug/m^3 occurred prior to July 1, 2011. Therefore no compliance plan is currently required at the time of writing of this report.

Subpart (f)(2) requires that:

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.

Since the **total** facility lead emissions are equal to approximately 0.0037 lbs/hr, compliance with both of these limits is expected.

All baghouses not equipped with PTFE membrane type filter bags are additionally equipped with HEPA secondary filters in compliance with subpart (f)(4) of this rule, and the HEPA filters are rated by the manufacturer to be 99.97 percent efficient on 0.3 micron particles, also required by this subpart.

All baghouses without HEPA filters at this facility are equipped with PTFE membrane type filter bags pursuant to the requirements in subpart (f)(5) of this rule.

The subject baghouse will vent a total enclosure building permitted under A/N 488107, the same permit application which was previously used to issue the P/C for the first baghouse to ventilate this building (Busch Unit J). This building has approximate dimensions of 90' W. X 180' L. X 54' H. This is equivalent to 16,200 total square feet. Since the floor area is greater than 10,000 square feet, Rule 1420.1 includes the following requirements which became effective on July 1, 2011:

(e)(3):

Ventilation of the total enclosure at any opening including, but not limited to, vents, windows, passages, doorways, bay doors, and roll-ups shall continuously be maintained at a negative pressure of at least 0.02 mm of Hg (0.011 inches H_2O) measured pursuant to paragraph (e)(4).

(e)(4)(A):

A minimum of one building digital differential pressure monitoring system shall be installed and maintained at each of the following three walls in each total enclosure having a total ground surface area of 10,000 square feet or more:

- (i) The leeward wall;
- (ii) The windward wall; and
- (iii) An exterior wall that connects the leeward and windward wall at a location defined by the intersection of a perpendicular line between a point on the connecting wall and a point on its furthest opposite exterior wall, and intersecting within plus or minus ten (± 10) meters of the midpoint of a straight line between the two other monitors specified in clauses (e)(4)(A)(i) and (e)(4)(A)(ii). The midpoint monitor shall not be located on the same wall as either of the other two monitors described in clauses (e)(4)(A)(i) or (e)(4)(A)(ii).

(e)(4)(F):

Digital differential pressure monitoring systems shall be equipped with a backup, uninterruptible power supply to ensure continuous operation of the monitoring system during a power outage

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Therefore, to ensure compliance with Rule 1420.1 total enclosure requirements, new condition no. E448.5 will be added to the Facility Permit in section H. (Inspections of this building by AQMD Compliance staff have indicated that this building has been constructed as a total enclosure and is in compliance with the building negative pressure requirements in Rule 1420.1.)

GRANT 105

Since there are no increases of PM emissions from this project, the Grant 105 permit conditions are not required in this case.

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).

APPLICABLE PERMIT CONDITIONS

The following permit conditions will ensure compliance with CAM requirements:

The actual details of the normal baghouse operation designed to comply with Rules 1407, 1420, and the lead NESHAP have been implemented in the Rule 1407 and Rule 1420 plan conditions and in the Facility Permit for this facility. Specifically, the following items are noted:

1. Section J of the Facility Permit contains an itemized list of NESHAP requirements that Quemetco has to comply with, including permit conditions to maintain the SOP's required by sections 63.545 and 63.548 of the lead NESHAP.
2. Sections D and H of the Facility Permit contain specific operating conditions regarding the baghouses at this facility. These conditions have the following functions:

CONDITION	REQUIREMENTS
Plan letter	Rule 1420 requirements attached to Facility Permit
F16.2	Rule 1407 requirements
C6.1, C6.2	baghouse operating temperature limits
D12.1	differential pressure gauges
D12.5	broken bag detectors
D12.9	exhaust gas flow meters
D323.1	visible emission inspection required if public complaint of visible emissions is made
D381.1	prevention of visible emissions
E102.1	discharge dust enclosed containers

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CONDITION	REQUIREMENTS
E193.1	CAM requirements (40CFR Part 64)
H116.2	Industrial Ventilation standards for exhaust systems
H116.3	compliance of bag leak detection systems with lead NESHAP requirements
K67.2	records of bag leak detector calibrations and calibration protocol, and records from baghouse inlet temperature gauges

3. The following baghouses in operation at Quemetco are subject to CAM requirements. These baghouses have the following conditions associated with them:

BAGHOUSE ASSIGNMENT	Device ID	REQUIRED CONDITIONS
Rotary Dryer Kiln Reverberatory Furnace Slag Furnace	C35, C39, C88	F16.2, C6.1, D12.1, D12.5, D12.9, D381.1, E102.1, E193.1, H116.2, H116.3, K67.2

In addition, the furnaces of D3, D8, and D84 are subject to condition no. D182.4, periodic source testing requirements for ROG, CO, PM, PM10, and lead.

The CAM Plan has been approved under A/N 436957.

Although there are some overlapping conditions, (D12.1, D381.1, and E102.1), it has previously been determined that the CAM requirements do not apply to the room ventilation baghouses at this facility.

40CFR63 Subpart X

The lead NESHAP requirements regarding the subject equipment are:

1. Exhaust concentration limit of 2.0 mg/DSCM regarding the room ventilation baghouse.
2. Wet suppression and washing of the floor area around the battery breaking equipment.

Permit conditions will ensure compliance with these requirements. Source tests will be required for the new baghouse to demonstrate compliance with the lead concentration limit.

REGULATION XXX

This project is considered to be a minor permit revision under Title V. A 45 day EPA notice and review period is required.

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DISCUSSION

The subject equipment is expected to operate in compliance with all of the applicable rules and regulations of the SCAQMD.

The air-to-cloth ratio of the subject baghouses is 12.0:1. The maximum recommended air-to-cloth ratio for a pulse jet baghouse is 8.0:1. However, since these baghouses will not be venting specific equipment items and the grain loadings will be very small, problems due to rapid filter bag wear, blinding, and/or high pressure drop are not expected.

Based on previous information and drawings, the new building is a separate structure made of corrugated sheet metal which is separate from the concrete walled main structure at Quemetco, which is also a total enclosure. Since metallurgical fumes from lead melting are separated from this new structure, Rule 1407 does not apply in this case. Since the facility lead emissions are less than 0.5 lbs/day, lead efficiency testing is not required for the battery wrecking building ventilation baghouses.

The battery enclosure was previously proposed as a partial enclosure. However, it was constructed as a total enclosure to comply with Rule 1420.1 requirements effective on July 1, 2011.

RECOMMENDATION

APPLICATION NO. 525800

Approve TV Permit Modification

APPLICATION NOS. 525799

1. Issue Permit to Construct subject to the following modifications:

see next page

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APPLICATION NO. 525799 Busch Unit K Room Ventilation Baghouse

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: SECONDARY LEAD SMELTING					
System 6: FUGITIVE DUST CONTROL SYSTEM					
BAGHOUSE, NO. K, BUSCH INTERNATIONAL, WITH PTFE MEMBRANE TYPE FILTER BAGS, WITH 25 HEPA FILTERS, EACH 2FT W.X 1FT L.X 2FT H., AND A 125-HP EXHAUST BLOWER, 4169 SQ.FT.; 196 BAGS A/N: 525799 Permit to Construct Issued:	C170	D1 C2 C109 D112 D113 D115 D116 D117 D118 D119 D120 D121 D122 D123 D124 D125 D126 D127 D128 D129 D130 D131 D132 D133 D134 D135 D136 D137 C169		LEAD: (10) [40CFR 63 Subpart X, #02, 6-23-2003]; PM: (9) [RULE 404, 2-7-1986]	D12.1, D12.14, D182.9, D381.1, E102.1, E448.3, K67.6, K171.5

2. Add new and existing conditions in section H as follows:

(MODIFIED)

D12.1 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 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition: C21, C35, C39, C168, C170]

(MODIFIED)

D12.14 The operator shall install and maintain a(n) differential pressure gauge to accurately indicate the differential pressure across the HEPA filters, in inches water column.

The static pressure differential across the HEPA filters shall not exceed 3 inches of water column.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; 40CFR 63 Subpart X, #02, 6-23-2003]

[Devices subject to this condition: C168, C170]

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(MODIFIED)

D182.9 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 room ventilation baghouses.
- B) The test(s) shall measure the emissions of **total** lead at the inlet and outlet of each baghouse. Triplicate source tests shall be conducted simultaneously on the inlet and outlet of each baghouse in accordance with the requirements set forth by Rule 1420 (e)(2). **The outlet tests shall also 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 each baghouse 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** rules.
- D) The tests shall be conducted while the battery wrecking and conveying system 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.
- 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 1420, 9-11-1992; **RULE 1420.1, 11-5-2010**; 40CFR 63 Subpart X, 6-23-2003]

[Devices subject to this condition: C168, **C170**]

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(MODIFIED)

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, 12-12-1997; RULE 401, 3-2-1984; RULE 401, 11-9-2001; 40CFR 60 Subpart L, 12-3-1976; 40CFR Part 64, 10-22-1997]
[Devices subject to this condition: C21, C35, C39, C88, C168, C169, **C170**]

(MODIFIED)

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

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

[Devices subject to this condition: C21, C35, C39, C88, C168, **C170**]

(MODIFIED)

E448.3 The operator shall comply with the following requirements:

- A. A minimum of one (1) room ventilation baghouse shall be in full operation at any time that the battery wrecking and conveying system is in operation.
- B. 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.
- C. 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.

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[RULE 1420.1, 11-5-2010]

[Devices subject to this condition: C168, C170]

(NEW)

E448.5 The operator shall comply with the following requirements

The operator shall install and maintain at least three (3) separate digital pressure differential monitoring systems inside the Total Containment Building so as to measure the negative pressure differential between the internal building atmosphere and the external atmosphere at all times. Each of these systems shall be operated pursuant to the following requirements:

A. Each building pressure differential monitoring system shall be equipped with a continuous chart recorder.

B. A minimum of one (1) building pressure differential monitoring system shall be installed at each of the following three (3) walls in the Total Enclosure Building, pursuant to the requirements in Rule 1420.1 (e)(4):

1. Leeward wall inside of the total enclosure building.

2. The inside wall of the building opposite the leeward wall.

3. An inside wall location defined by the intersection of a perpendicular line between this wall and within plus or minus ten (10) meters of the midpoint of a straight line between the two other monitors described in Subparts (B)(1) and (B) (2) of this condition. For the purpose of this condition, the midpoint monitor shall NOT be located on the same walls as any of the other two monitors described in this condition.

C. Ventilation of the total enclosure at any opening including, but not limited to, vents, windows, passages, doorways, bay doors, and roll-ups shall continuously be maintained at a negative pressure of at least 0.02 mm of Hg (0.011 inches water column).

D. Each differential pressure monitoring system shall be equipped with a backup, uninterruptible power supply to ensure continuous operation of the monitoring system during a power outage.

[RULE 1420.1, 11-5-2010]

[Devices subject to this condition : C169]

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(MODIFIED)

K67.6 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

The pressure drop across the HEPA filter system shall be monitored and recorded daily.

[40CFR 63 Subpart X, #02, 6-23-2003; 40CFR Part 64, 10-22-1997]

[Devices subject to this condition: C168, C170]

(MODIFIED)

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 AQMD 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 AQMD 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 battery wrecking and conveying system 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).

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- D) The source tests shall be completed and a final report submitted to the AQMD Refinery and Waste Management Permitting Unit, Engineering and Compliance, not later than 180 days after construction of the battery breaking area **Total** Enclosure Building, and the associated baghouses, is completed.

[RULE 1420.1, 11-5-2010]

[Devices subject to this condition: C168, C170]