

## FACILITY PERMIT TO OPERATE QUEMETCO INC

### 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
<b>Process 1: SECONDARY LEAD SMELTING</b>					
<b>System 1: BATTERY CRUSHING AND MATERIAL SEPARATION SYSTEM</b>					S53.1
HAMMERMILL, WILLIAMS-PATENT CRUSHER INC., MODEL NO. RS STAINLESS STEEL, SERIAL NO. 21174, 7 FT.-0 IN. W. X 17 FT.-6 IN. L. X 4 FT.-6 IN. H., 500-H.P. A/N:	D1	C2 C168 C169		LEAD: (10) [40CFR 63 Subpart X, #02, 6-23-2003]; PM: (9) [RULE 405, 2-7-1986]	B163.4, D323.1, K67.13
<b>System 2: FEED DRYING SYSTEM</b>					
FURNACE, ROTARY, LIQUIFIED PETROLEUM GAS, NATURAL GAS, WITH A NORTH AMERICAN MODEL 42-13-10-LEX BURNER, 10 MMBTU/HR A/N: 462562 Permit to Construct Issued: 04/19/07	D3	C28 C29 C35	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) ; LEAD: (10) ; PM: (9) ; PM: 0.1 GRAINS/SCF (5)	B59.2, B75.1, B163.3, C1.7, C1.8, C1.9, C1.10, C6.4, C303.2, D12.10, D12.11, D12.12, D12.13, D322.2, D323.1, K67.11
<b>System 3: LEAD SWEATING SYSTEM</b>					

\* (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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<b>Process 1: SECONDARY LEAD SMELTING</b>					
FURNACE, REVERBATORY, LIQUIFIED PETROLEUM GAS, NATURAL GAS, LEAD ACID BATTERY SCRAP, 34 MMBTU/HR WITH A/N: 462562 Permit to Construct Issued: 04/19/07	D8	C28 C29 C37	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; LEAD: (10) [40CFR 63 Subpart X, #02, 1-29-1999]; PM: (9) [RULE 405, 2-7-1986]; PM: 0.022 GRAINS/SCF (8A) [40CFR 60 Subpart L, 12-3-1976]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B59.2, B75.1, B163.3, C1.7, C1.8, C1.11, C1.12, C303.1, D12.10, D12.11, D12.12, D12.13, D323.1, K67.12, K67.13
CHARGING WELL, LEAD ACID BATTERY SCRAP	D9	C28 C29 C37		LEAD: (10) [40CFR 63 Subpart X, #02, 1-29-1999]; PM: (9) [RULE 405, 2-7-1986]	
TAPPING PORT, LEAD	D10	C28 C29 C35			
TAPPING PORT, LEAD SLAG, WITH A CASTING ENCLOSURE	D11	C28 C29 C39			
<b>System 4: LEAD SLAG PROCESSING SYSTEM</b>					
FURNACE, ELECTRIC, LEAD SLAG, WITH THREE ELECTRODES, ELECTRIC RESISTENCE TYPE, 2500 KW WITH A/N: 462563 Permit to Construct Issued: 04/19/07	D84	C33 C34 C88	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; LEAD: (10) [40CFR 63 Subpart X, #02, 6-23-2003]; PM: (9) [RULE 405, 2-7-1986]; PM: 0.022 GRAINS/SCF (8A) [40CFR 63 Subpart L, 4-20-2006]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B59.2, B163.2, C1.13, D323.1, K67.1, K67.13
TAPPING PORT, LEAD	D85	C33 C34 C88			
TAPPING PORT, SLAG	D86	C33 C34 C88			

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 (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

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<b>Process 1: SECONDARY LEAD SMELTING</b>					
BAGHOUSE, GORETEX, WHEELABRATOR, MODEL CUSTOM, 16493 SQ.FT.; 1200 BAGS A/N: 456815 Permit to Construct Issued: 04/19/07	C88	D11 D13 D84 D85 D86 C89 D110		LEAD: (10) [40CFR 63 Subpart X, #02, 6-23-2003]; PM: (9) [RULE 404, 2-7-1986]	A63.1, C6.2, D12.5, D12.9, D381.1, E102.1, E193.1, H116.2, H116.3, K67.2
SCRUBBER, TRAY, SLY, MODEL 685, HEIGHT: 26 FT ; DIAMETER: 8 FT 6 IN A/N: 456815 Permit to Construct Issued: 04/19/07	C89	C88 B138			A63.4, C8.2, C8.3, D182.4, D323.1, K67.5, K67.9
<b>System 5: LEAD METAL REFINING SYSTEM</b>					
FURNACE, POT, LIQUIFIED PETROLEUM GAS, NATURAL GAS, LEAD REFINING, WITH A NORTH AMERICAN MODEL 4422-8A BURNER, 4.24 MMBTU/HR A/N:	D16	C21 C26 C27 B138 S164	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; LEAD: (10) [40CFR 63 Subpart X, #02, 6-23-2003]; PM: (9) [RULE 405, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	A63.5, B59.1, B75.2, C1.2, C1.3, C1.4, D323.1, E57.1, E57.2, E448.4, K67.14
FURNACE, POT, LIQUIFIED PETROLEUM GAS, NATURAL GAS, LEAD REFINING, WITH A NORTH AMERICAN MODEL 4422-8A BURNER, 4.24 MMBTU/HR A/N:	D17	C21 C26 C27 B138 S164	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; LEAD: (10) [40CFR 63 Subpart X, #02, 6-23-2003]; PM: (9) [RULE 405, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	A63.5, B59.1, B75.2, C1.2, C1.3, C1.4, D323.1, E57.1, E57.2, E448.4, K67.14
FURNACE, POT, LIQUIFIED PETROLEUM GAS, NATURAL GAS, LEAD REFINING, WITH A NORTH AMERICAN MODEL 4422-8A BURNER, 4.24 MMBTU/HR A/N:	D18	C21 C26 C27 B138 S164	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; LEAD: (10) [40CFR 63 Subpart X, #02, 6-23-2003]; PM: (9) [RULE 405, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	A63.5, B59.1, B75.2, C1.2, C1.3, C1.4, D323.1, E57.1, E57.2, E448.4, K67.14

- \* (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.)
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<b>Process 1: SECONDARY LEAD SMELTING</b>					
FURNACE, POT, LIQUIFIED PETROLEUM GAS, NATURAL GAS, LEAD REFINING, WITH A NORTH AMERICAN MODEL 4422-8A BURNER, 4.24 MMBTU/HR A/N:	D19	C21 C26 C27 B138 S164	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; LEAD: (10) [40CFR 63 Subpart X, #02, 6-23-2003]; PM: (9) [RULE 405, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	A63.5, B59.1, B75.2, C1.2, C1.3, C1.4, D323.1, E57.1, E57.2, E448.4, K67.14
FURNACE, POT, LIQUIFIED PETROLEUM GAS, NATURAL GAS, LEAD REFINING, WITH A NORTH AMERICAN MODEL 4422-8A BURNER, 4.24 MMBTU/HR A/N:	D20	C21 C26 C27 B138 S164	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; LEAD: (10) [40CFR 63 Subpart X, #02, 6-23-2003]; PM: (9) [RULE 405, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	A63.5, B59.1, B75.2, C1.2, C1.3, C1.4, D323.1, E57.1, E57.2, E448.4, K67.14
FURNACE, POT, LIQUIFIED PETROLEUM GAS, NATURAL GAS, LEAD REFINING, 4.24 MMBTU/HR A/N:	D99	C21 C26 C27 B138 S164	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; LEAD: (10) [40CFR 63 Subpart X, #02, 1-29-1999]; PM: (9) [RULE 405, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	A63.5, B59.1, B75.2, C1.2, C1.3, C1.4, D323.1, E57.1, E57.2, E448.4, K67.14
FURNACE, POT, LIQUIFIED PETROLEUM GAS, NATURAL GAS, LEAD REFINING, WITH AN ECLIPSE MODEL WX 300, TYPE WINNOX BURNER, 3.6 MMBTU/HR A/N:	D100	C21 C26 C27 B138 S164	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; LEAD: (10) [40CFR 63 Subpart X, #02, 6-23-2003]; PM: (9) [RULE 405, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	A63.5, B59.1, B75.2, C1.2, C1.3, C1.4, C1.5, C1.6, E57.1, E57.2, E71.1, E448.4, K67.14, 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.)
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<b>Process 1: SECONDARY LEAD SMELTING</b>					
BAGHOUSE, DRACCO, MODEL SS-2-100, 13430 SQ.FT.; 1140 BAGS A/N: 456816 Permit to Construct Issued: 04/19/07	C21	D16 D17 D18 D19 D20 S24 D99 D100 B138		LEAD: (10) [40CFR 63 Subpart X, #02, 6-23-2003]; PM: (9) [RULE 404, 2-7-1986]	C6.3, D12.1, D12.5, D12.9, D381.1, E102.1, H116.2, H116.3
STACK, , REFINING POT FURNACE BURNER EXHAUST A/N:	S164	D16 D17 D18 D19 D20 D99 D100			
<b>System 6: FUGITIVE DUST CONTROL SYSTEM</b>					

- \* (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.)
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<b>Process 1: SECONDARY LEAD SMELTING</b>					
BAGHOUSE, NO. J, BUSCH INTERNATIONAL, WITH 20 HEPA FILTERS, EACH 2FT W.X 1FT L.X 2FT H., AND A 100-HP EXHAUST BLOWER, 4169 SQ.FT.; 196 BAGS WITH A/N: 488107 Permit to Construct Issued: 01/15/10	C168	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
ENCLOSURE, BUILDING, BATTERY BREAKING AREA, 90 FT. W. X 180 FT. L. X 54 FT. H., APPROXIMATE DIMENSIONS	C169	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 C168		LEAD: (10) [40CFR 63 Subpart X, #02, 6-23-2003]; PM: (9) [RULE 404, 2-7-1986]	D381.1
<b>System 7: REVERBERATORY FURNACE SANITARY APCS</b>					

\* (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.)  
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<b>Process 1: SECONDARY LEAD SMELTING</b>					
BAGHOUSE, WHEELABRATOR, MODEL 126, 29568 SQ.FT.; 2112 BAGS A/N: 456813 Permit to Construct Issued: 04/19/07	C35	D3 D10 C161		LEAD: (10) [40CFR 63 Subpart X, #02, 1-29-1999]; PM: (9) [RULE 404, 2-7-1986]	A63.1, A63.2, C6.1, D12.1, D12.5, D12.9, D182.4, D381.1, E102.1, E193.1, H116.2, H116.3, K67.2
<b>System 8: REVERBERATORY FURNACE PROCESS APCS</b>					
BAGHOUSE, PTFE MEMBRANE, WHEELABRATOR, 20782 SQ.FT.; 1440 BAGS A/N: 456814 Permit to Construct Issued: 04/19/07	C39	C38 C40 C104		LEAD: (10) [40CFR 63 Subpart X, #02, 1-29-1999]; PM: (9) [RULE 404, 2-7-1986]	A63.1, C6.2, D12.1, D12.5, D12.9, D381.1, E102.1, E193.1, H116.2, H116.3, K67.2
SCRUBBER, TRAY, : EACH OF TWO VESSELS., HEIGHT: 20 FT ; DIAMETER: 10 FT A/N: 456814 Permit to Construct Issued: 04/19/07	C40	C39 C108 B138			A63.3, C8.1, C8.4, D182.4, D323.1, H116.4, K67.5, K67.10
<b>Process 4: ELECTRIC POWER GENERATION EQUIPMENT</b>					
<b>System 1: EMERGENCY ELECTRICAL POWER SYSTEM</b>					

- \* (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.)
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<b>Process 4: ELECTRIC POWER GENERATION EQUIPMENT</b>					
INTERNAL COMBUSTION ENGINE, RICH BURN, NATURAL GAS, CUMMINS, MODEL GTA50G1, WITH A/F RATIO CONTROL, GILL, AF 120/220, AND CATALYTIC CONVERTER, DCL, 2-DC74.5-X, WITH CATALYTIC AFTERBURNER, AFTERCOOLER, TURBOCHARGER, 1150 HP WITH A/N: 468847 Permit to Construct Issued: 11/15/07	D165		NOX: LARGE SOURCE**; SOX: PROCESS UNIT**	CO: 36 PPMV AT 15 MINS. (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1703 - PSD Analysis, 10-7-1988]; NOX: 7.3 PPMV AT 15 MINS. (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986; RULE 405, 2-7-1986]; ROG: 11 PPMV AT 15 MINS. (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]; SOX: 0.6 LBS/MMBTU NATURAL GAS (1) [RULE 2011, 5-6-2005]	C1.16, C1.17, C10.1, D12.18, D12.19, D12.20, D182.8, E71.3, E71.4, E71.5, E115.1, E193.3, H23.3, K67.18, K171.4
NON-SELECTIVE CATALYTIC REDUCTION, CATALYTIC CONVERTER, DCL, MODEL 2-DC74.5-X, WITH THREE WAY CATALYST, WITH AIR TO FUEL RATIO CONTROLLER, GILL, MODEL AF120 OR AF220 A/N: 468847 Permit to Construct Issued: 11/15/07	C166				
<b>Process 6: SUPPLEMENTARY PROCESS APCS</b>					
<b>System 1: WET ELECTROSTATIC PRECIPITATOR</b>					

\* (1) (1A) (1B) Denotes RECLAIM emission factor  
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 (7) Denotes NSR applicability limit  
 (9) See App B for Emission Limits  
 (2) (2A) (2B) Denotes RECLAIM emission rate  
 (4) Denotes BACT emission limit  
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 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
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<b>Process 6: SUPPLEMENTARY PROCESS APCS</b>					
MANIFOLD, WESP INLET A/N:	B138	D16 D17 D18 D19 D20 C21 C40 C89 D99 D100 C139 C143 C147 C151 C155 C161			E448.4
SCRUBBER, PACKED BED, , ENVITECH, INTEGRAL WITH WESP UNIT NO. 1, WITH 6 FT. - 0 IN. PACKING, WITH 50-H.P. RECIRCULATION PUMP, AND A LIQUID SUMP, WIDTH: 11 FT ; LENGTH: 11 FT A/N:	C139	B138 B140 C141			C8.5, C8.6, K67.15, K67.17
HEAT EXCHANGER, , ENVITECH, SERVING WESP UNIT NO. 1, PLATE & FRAME, LIQUID TO LIQUID, 1 FT-9 IN W. X 5 FT-10 IN L. X 5 FT-10 IN H. A/N:	B140	C139 E160			
ELECTROSTATIC PRECIPITATOR, , ENVITECH, WESP UNIT NO. 1, 11 FT. W. X 11 FT. L. X 35 FT. H., VERTICAL TYPE, ENVITECH, MODEL 492-6, WITH 492 HEX TUBES, EACH 3 IN PER SIDE, 6 IN MAX DIA. X 7 FT L., WATER WASHED, 40 KVA A/N:	C141	C139 C142			D12.15, D12.16
MIST ELIMINATOR, , ENVITECH, SERVING WESP UNIT NO. 1, WAVE FORM BAFFLE TYPE A/N:	C142	C141 S159			D12.17

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- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
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- (6) Denotes air toxic control rule limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
<b>Process 6: SUPPLEMENTARY PROCESS APCS</b>					
SCRUBBER, PACKED BED, , ENVITECH, INTEGRAL WITH WESP UNIT NO. 2, WITH 6 FT.- 0 IN. PACKING, WITH 50-H.P. RECIRCULATION PUMP, AND A LIQUID SUMP, WIDTH: 11 FT ; LENGTH: 11 FT A/N:	C143	B138 B144 C145			C8.5, C8.6, K67.15, K67.17
HEAT EXCHANGER, , ENVITECH, SERVING WESP UNIT NO. 2, PLATE & FRAME, LIQUID TO LIQUID, 1 FT-9 IN W. X 5 FT-10 IN L. X 5 FT-10 IN H. A/N:	B144	C143 E160			
ELECTROSTATIC PRECIPITATOR, , ENVITECH, WESP UNIT NO. 2, 11 FT. W. X 11 FT. L. X 35 FT. H., VERTICAL TYPE, ENVITECH, MODEL 492-6, WITH 492 HEX TUBES, EACH 3 IN PER SIDE, 6 IN MAX DIA. X 7 FT L., WATER WASHED, 40 KVA A/N:	C145	C143 C146			D12.15, D12.16
MIST ELIMINATOR, , ENVITECH, SERVING WESP UNIT NO. 2, WAVE FORM BAFFLE TYPE A/N:	C146	C145 S159			D12.17

- \* (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.

## FACILITY PERMIT TO OPERATE QUEMETCO INC

### 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
<b>Process 6: SUPPLEMENTARY PROCESS APCS</b>					
SCRUBBER, PACKED BED, , ENVITECH, INTEGRAL WITH WESP UNIT NO. 3, WITH 6 FT.- 0 IN. PACKING, WITH 50-H.P. RECIRCULATION PUMP, AND A LIQUID SUMP, WIDTH: 11 FT ; LENGTH: 11 FT A/N:	C147	B138 B148 C149			C8.5, C8.6, K67.15, K67.17
HEAT EXCHANGER, , ENVITECH, SERVING WESP UNIT NO. 3, PLATE & FRAME, LIQUID TO LIQUID, 1 FT-9 IN W. X 5 FT-10 IN L. X 5 FT-10 IN H. A/N:	B148	C147 E160			
ELECTROSTATIC PRECIPITATOR, , ENVITECH, WESP UNIT NO. 3, 11 FT. W. X 11 FT. L. X 35 FT. H., VERTICAL TYPE, ENVITECH, MODEL 492-6, WITH 492 HEX TUBES, EACH 3 IN PER SIDE, 6 IN MAX DIA. X 7 FT L., WATER WASHED, 40 KVA A/N:	C149	C147 C150			D12.15, D12.16
MIST ELIMINATOR, , ENVITECH, SERVING WESP UNIT NO. 3, WAVE FORM BAFFLE TYPE A/N:	C150	C149 S159			D12.17

- \* (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.

## FACILITY PERMIT TO OPERATE QUEMETCO INC

### 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
<b>Process 6: SUPPLEMENTARY PROCESS APCS</b>					
SCRUBBER, PACKED BED, , ENVITECH, INTEGRAL WITH WESP UNIT NO. 4, WITH 6 FT.- 0 IN. PACKING, WITH 50-H.P. RECIRCULATION PUMP, AND A LIQUID SUMP, WIDTH: 11 FT ; LENGTH: 11 FT A/N:	C151	B138 B152 C153			C8.5, C8.6, K67.15, K67.17
HEAT EXCHANGER, , ENVITECH, SERVING WESP UNIT NO. 4, PLATE & FRAME, LIQUID TO LIQUID, 1 FT-9 IN W. X 5 FT-10 IN L. X 5 FT-10 IN H. A/N:	B152	C151 E160			
ELECTROSTATIC PRECIPITATOR, , ENVITECH, WESP UNIT NO. 4, 11 FT. W. X 11 FT. L. X 35 FT. H., VERTICAL TYPE, ENVITECH, MODEL 492-6, WITH 492 HEX TUBES, EACH 3 IN PER SIDE, 6 IN MAX DIA. X 7 FT L., WATER WASHED, 40 KVA A/N:	C153	C151 C154			D12.15, D12.16
MIST ELIMINATOR, , ENVITECH, SERVING WESP UNIT NO. 4, WAVE FORM BAFFLE TYPE A/N:	C154	C153 S159			D12.17

- \* (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.

## FACILITY PERMIT TO OPERATE QUEMETCO INC

### 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
<b>Process 6: SUPPLEMENTARY PROCESS APCS</b>					
SCRUBBER, PACKED BED, , ENVITECH, INTEGRAL WITH WESP UNIT NO. 5, WITH 6 FT.- 0 IN. PACKING, WITH 50-H.P. RECIRCULATION PUMP, AND A LIQUID SUMP, WIDTH: 11 FT ; LENGTH: 11 FT A/N:	C155	B138 B156 C157			C8.5, C8.6, K67.15, K67.17
HEAT EXCHANGER, , ENVITECH, SERVING WESP UNIT NO. 5, PLATE & FRAME, LIQUID TO LIQUID, 1 FT-9 IN W. X 5 FT-10 IN L. X 5 FT-10 IN H. A/N:	B156	C155 E160			
ELECTROSTATIC PRECIPITATOR, , ENVITECH, WESP UNIT NO. 5, 11 FT. W. X 11 FT. L. X 35 FT. H., VERTICAL TYPE, ENVITECH, MODEL 492-6, WITH 492 HEX TUBES, EACH 3 IN PER SIDE, 6 IN MAX DIA. X 7 FT L., WATER WASHED, 40 KVA A/N:	C157	C155 C158			D12.15, D12.16
MIST ELIMINATOR, , ENVITECH, SERVING WESP UNIT NO. 5, WAVE FORM BAFFLE TYPE A/N:	C158	C157 S159			D12.17

- \* (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.

## FACILITY PERMIT TO OPERATE QUEMETCO INC

### 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
<b>Process 6: SUPPLEMENTARY PROCESS APCS</b>					
STACK, WESP EXHAUST, WITH A 250-H.P. PRIMARY EXHAUST BLOWER AND A 250-H.P. STANDBY EXHAUST BLOWER, HEIGHT: 70 FT ; DIAMETER: 6 FT 8 IN A/N:	S159	C142 C146 C150 C154 C158			A63.6, D182.4, D182.5, D182.6, D182.7, D323.1, E448.1, E448.2, E448.4
RULE 219 EXEMPT EQUIPMENT, COOL TOWER, MARLEY, M/N NC8312K, 14 FT. W X 23 FT. L. X 23 FT. H., INDUCED DRAFT, CROSS FLOW TYPE, WITH A 75-H.P. FAN AND A 125-H.P. LIQUID CIRCULATION PUMP	E160	B140 B144 B148 B152 B156			
<b>System 2: REGENERATIVE THERMAL OXIDIZER</b>					
OXIDIZER, HOT ROCK, REGENERATIVE, ADWEST TECH., MODEL RETOX 27.5T095, 11FT W.X38FT-10IN L X12FT-1 IN.H, NATURAL GAS, WITH A MAXON MODEL KENEMAX 6G BURNER AND A 100-H.P. EXHAUST BLOWER, 8.58 MMBTU/HR A/N: 460790 Permit to Construct Issued: 04/19/07	C161	C35 B138	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**		C8.7, D182.5, D182.6, D182.7, D323.1, K67.16

\* (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.

**FACILITY PERMIT TO OPERATE  
QUEMETCO INC**

**SECTION H: DEVICE ID INDEX**

**The following sub-section provides an index  
to the devices that make up the facility  
description sorted by device ID.**

**FACILITY PERMIT TO OPERATE  
 QUEMETCO INC**

**SECTION H: DEVICE ID INDEX**

<b>Device Index For Section H</b>			
<b>Device ID</b>	<b>Section H Page No.</b>	<b>Process</b>	<b>System</b>
D1	1	1	1
D3	1	1	2
D8	2	1	3
D9	2	1	3
D10	2	1	3
D11	2	1	3
D16	3	1	5
D17	3	1	5
D18	3	1	5
D19	4	1	5
D20	4	1	5
C21	5	1	5
C35	7	1	7
C39	7	1	8
C40	7	1	8
D84	2	1	4
D85	2	1	4
D86	2	1	4
C88	3	1	4
C89	3	1	4
D99	4	1	5
D100	4	1	5
B138	10	6	1
C139	10	6	1
B140	10	6	1
C141	10	6	1
C142	10	6	1
C143	11	6	1
B144	11	6	1
C145	11	6	1
C146	11	6	1
C147	12	6	1
B148	12	6	1
C149	12	6	1

**FACILITY PERMIT TO OPERATE  
 QUEMETCO INC**

**SECTION H: DEVICE ID INDEX**

<b>Device Index For Section H</b>			
<b>Device ID</b>	<b>Section H Page No.</b>	<b>Process</b>	<b>System</b>
C150	12	6	1
C151	13	6	1
B152	13	6	1
C153	13	6	1
C154	13	6	1
C155	14	6	1
B156	14	6	1
C157	14	6	1
C158	14	6	1
S159	15	6	1
E160	15	6	1
C161	15	6	2
D162	8	4	1
S164	5	1	5
D165	9	4	2
C166	9	4	2
C168	6	1	6
C169	6	1	6

## FACILITY PERMIT TO OPERATE QUEMETCO INC

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

#### **FACILITY CONDITIONS**

F14.1 The operator shall not purchase diesel fuel containing sulfur compounds in excess of 15 ppm by weight as supplied by the supplier.

[RULE 431.2, 5-4-1990; RULE 431.2, 9-15-2000]

F16.2 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Records shall be kept to demonstrate compliance with the following conditions, pursuant to the Rule 1407 Compliance Plan for this facility:

1. This facility shall be operated in accordance with the requirements specified in subparts (d)(1), (d)(3), (d)(5), (e), and (g)(1) of Rule 1407.

2. The slag furnace and reverberatory furnace process air pollution control systems shall be operated pursuant to all requirements stated in this condition, with the exception of the temperature requirement of Rule 1407 (d)(3).

[RULE 1407, 7-8-1994; 40CFR 63 Subpart X, #02, 6-23-2003]

#### **SYSTEM CONDITIONS**

## FACILITY PERMIT TO OPERATE QUEMETCO INC

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

S53.1 The following conditions shall apply to the equipment in this system:

The operator shall maintain the level of plastic separation in this system as follows:

For each calendar quarter, the ratio of the total amount of separated plastic shipped offsite in that quarter to the total amount of raw lead metal produced from the reverberatory and lead slag furnaces in that quarter shall be 0.05 or greater.

The daily and daily month-to-date (MTD) total amounts of raw lead metal produced, and plastic shipped offsite, shall be recorded in the COI Plant Activity Report (COI).

The operator shall calculate the plastic to lead metal ratios using the total amounts of plastic and lead produced in the final end of the calendar month COI reports. The plastic to lead metal ratios, for the previous calendar month, and for the previous calendar quarter, shall be reported in both the Daily Production Reports (DPR) and in the COI reports for this facility.

The final end of the calendar month amounts of plastic shall be based on bills of lading and/or other equivalent shipment records or manifests documenting total weight of plastic shipped offsite, and the raw lead metal produced shall be based on the total number and weights of raw lead bullion molds/ingots cast and recorded each work shift each day by the reverberatory/slag furnace operator(s).

[RULE 204, 10-8-1993]

[Systems subject to this condition : Process 1, System 1]

### DEVICE CONDITIONS

#### A. Emission Limits

A63.1 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
Visible emissions	Less than 20 Percent opacity

## FACILITY PERMIT TO OPERATE QUEMETCO INC

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

[40CFR 60 Subpart L, 12-3-1976]

[Devices subject to this condition : C35, C39, C88]

A63.2 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
VOC	Less than or equal to 186 LBS IN ANY ONE DAY
CO	Less than or equal to 179 LBS IN ANY ONE DAY
PM10	Less than or equal to 8 LBS IN ANY ONE DAY

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : C35]

A63.3 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
VOC	Less than or equal to 27 LBS IN ANY ONE DAY
CO	Less than or equal to 19 LBS IN ANY ONE DAY
PM10	Less than or equal to 38 LBS IN ANY ONE DAY

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : C40]

A63.4 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
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## FACILITY PERMIT TO OPERATE QUEMETCO INC

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

VOC	Less than or equal to 46 LBS IN ANY ONE DAY
CO	Less than or equal to 33 LBS IN ANY ONE DAY
PM10	Less than or equal to 11 LBS IN ANY ONE DAY

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : C89]

A63.5 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
Visible emissions	Less than 10 Percent opacity

[40CFR 60 Subpart L, 12-3-1976]

[Devices subject to this condition : D16, D17, D18, D19, D20, D99, D100]

A63.6 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
VOC	Less than or equal to 259 LBS IN ANY ONE DAY
CO	Less than or equal to 230 LBS IN ANY ONE DAY
PM10	Less than or equal to 8 LBS IN ANY ONE DAY

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : S159]

#### B. Material/Fuel Type Limits

## FACILITY PERMIT TO OPERATE QUEMETCO INC

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

**B59.1 The operator shall not use the following material(s) in this device :**

coal, charcoal, rubber, plastic, paper, rags, oil, grease, or metal contaminated with any of these materials.

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

[Devices subject to this condition : D16, D17, D18, D19, D20, D99, D100]

**B59.2 The operator shall not use the following material(s) in this device :**

With the exception of the specific materials listed in condition nos. B163.2 and B163.3, all other types of organic materials including, but not limited to, coal, charcoal, rubber, plastic, paper, rags, oil, grease, or metal contaminated with any of these materials

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

[Devices subject to this condition : D3, D8, D84]

**B75.1 The operator shall not use propane in this equipment except under the following circumstance(s):**

Natural gas curtailment

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

[Devices subject to this condition : D3, D8]

**B75.2 The operator shall not use propane in this equipment except under the following circumstance(s):**

Natural gas curtailment

## **FACILITY PERMIT TO OPERATE QUEMETCO INC**

### **SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

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

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 2012,  
5-6-2005]**

**[Devices subject to this condition : D16, D17, D18, D19, D20, D99, D100]**

**B163.2 The operator shall only use feed materials containing the following:**

## FACILITY PERMIT TO OPERATE QUEMETCO INC

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

aluminum oxide and carbonate

calcined carbon coke

calcium oxide and carbonate

flue dust generated on-site

inorganic lead compounds

iron oxide and carbonate

lead dross

lime

limestone

magnesium oxide and carbonate

metallic iron

metallic steel

reverberatory furnace slag

silica and silica sand

sodium borate

sodium carbonate

[RULE 1401, 12-7-1990]

[Devices subject to this condition : D84]

## **FACILITY PERMIT TO OPERATE QUEMETCO INC**

### **SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

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

**B163.3 The operator shall only use feed materials containing the following:**

## **FACILITY PERMIT TO OPERATE QUEMETCO INC**

### **SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

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

aluminum oxide and carbonate

battery crusher material

calcined carbon coke

calcium oxide and carbonate

flue dust generated on-site

inorganic lead compounds

iron oxide and carbonate

lead dross

lime

limestone

magnesium oxide and carbonate

metallic iron, metallic steel and/or metallic lead

paper from additive bags

reverberatory furnace slag

rubber and plastic that is not removed from battery crusher material processed by the permitted battery crushing and material separation system

silica and silica sand

slag furnace slag

sodium borate

## FACILITY PERMIT TO OPERATE QUEMETCO INC

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

sodium carbonate

[RULE 1401, 12-7-1990]

[Devices subject to this condition : D3, D8]

**B163.4 The operator shall only use feed materials containing the following:**

Lead-acid batteries and lead-acid battery components

[RULE 1401, 12-7-1990]

[Devices subject to this condition : D1]

#### **C. Throughput or Operating Parameter Limits**

**C1.1 The operator shall limit the operating time to no more than 200 hours in any one year.**

[RULE 1110.2, 6-3-2005; **RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996;**  
**RULE 2012, 5-6-2005]**

[Devices subject to this condition : D162]

**C1.2 The operator shall limit the material processed to no more than 640 ton(s) in any one day.**

For the purpose of this condition, material processed shall be defined as the total weight of all materials.

This limit shall be based on the total combined limit for all pot furnaces.

[**RULE 1303(b)(2)-Offset, 5-10-1996;** **RULE 1303(b)(2)-Offset, 12-6-2002]**

[Devices subject to this condition : D16, D17, D18, D19, D20, D99, D100]

## FACILITY PERMIT TO OPERATE QUEMETCO INC

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

- C1.3 The operator shall limit the material processed to no more than 45750 lb(s) in any one calendar month.

For the purpose of this condition, material processed shall be defined as phosphorus.

This limit shall be based on the total combined limit for all pot furnaces.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D16, D17, D18, D19, D20, D99, D100]

- C1.4 The operator shall limit the material processed to no more than 400 lb(s)/hr.

For the purpose of this condition, material processed shall be defined as sulfur.

This limit shall be based on the total combined limit for all pot furnaces.

[RULE 2005, 4-20-2001; RULE 2005, 5-6-2005; RULE 2011, 12-5-2003; RULE 2011, 5-6-2005]

[Devices subject to this condition : D16, D17, D18, D19, D20, D99, D100]

- C1.5 The operator shall limit the natural gas fuel usage to no more than 388000 cubic feet per day.

This limit shall be based on the total combined limit for all pot furnaces.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 2012, 12-5-2003; RULE 2012, 5-6-2005]

[Devices subject to this condition : D100]

- C1.6 The operator shall limit the propane fuel usage to no more than 4500 gallon(s) per day.

## FACILITY PERMIT TO OPERATE QUEMETCO INC

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

This limit shall be based on the total combined limit for all pot furnaces.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 2012, 12-5-2003; RULE 2012, 5-6-2005]**

[Devices subject to this condition : D100]

- C1.7 The operator shall limit the material processed to no more than 600 ton(s) in any one day.

## FACILITY PERMIT TO OPERATE QUEMETCO INC

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

For the purpose of this condition, material processed shall be defined as the total weight of all materials charged to the reverberatory furnace. This total weight shall be the same as the total weight of all materials charged to the rotary dryer furnace. This condition shall not apply to baghouse dust generated on-site. To comply with this condition, the process weight shall be determined according to the following method.

- 1) The operator shall use a skip loader equipped with a Loadrite weighing system, and the hardware and software system (network) referred to as the Supervisory Control And Data Acquisition System (SCADA), to measure and record the weight of all materials charged to the rotary dryer feed hopper in accordance with all data and specifications submitted to the AQMD under Application No. 442948 unless otherwise specified below.
- 2) Except for calcined carbon coke, all feed material shall be charged to the rotary dryer and the reverberatory furnaces through the feed hopper serving the rotary dryer furnace.
- 3) Calcined carbon coke shall be staged in a dedicated pile prior to charging it to the main rotary dryer feed conveyor. The total amount of all carbon coke charged shall also be weighed and recorded by the Loadrite weighing system.
- 4) The SCADA shall process the information from the Loadrite weighing system and record the skip loader identification, calendar date, chronological time and process weight, in pounds, of each bucket load of material charged to the rotary dryer feed hopper and the total weight of all coke charged, respectively, as well as the total load count for each day.
- 5) A motion detection system, consisting of a photoelectric sensor, a video camera and a video motion detector, shall be installed at the rotary dryer feed hopper, and maintained in proper operation at all times, to indicate when a bucket load is charged to this hopper. The SCADA shall process the information from this system and record the chronological time of each bucket load and the total count of all loads charged to the rotary dryer feed hopper each day.
- 6) The time stamps of all devices, including the Loadrite systems, shall be

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synchronized with respect to the time of day, and with each other, within plus or minus 180 seconds.

7) The rotary dryer feed hopper photoelectric sensor shall provide an electronic signal to a circular chart recorder which shall record one tick mark for each instance that a bucket load is charged to the hopper, and, simultaneously, to a non-resettable totalizing counter which counts the total number of loads charged. One separate circular data chart shall be produced for each day.

8) The photoelectric sensor, circular chart recorder, and totalizing counter shall be electrically configured to be independent of the SCADA network, and maintained in operation at all times.

9) The chart recorder, and the totalizing counter, shall be installed in the control room adjacent to the furnace area easily accessible to AQMD personnel. Each circular chart shall be clearly identified with the calendar date(s), starting time, ending time, starting totalizer count, and ending totalizer count that applies to the tick marks recorded on each chart. Each chart shall also be signed by the shift supervisor present on duty at the time that the chart paper is replaced in the recorder.

10) A manual verification of each charging event recorded by the SCADA and chart recorder shall be performed every two hours initially until otherwise approved in writing by the AQMD. Quemetco shall record the result of each verification in the comment section of the Daily Production Report (DPR) for this facility. If the number of load counts do not match, an explanation of causes and corrective actions taken (if required) shall be included in the DPR.

11) If at any time, the weighing system fails to record the weight of a bucket load charged to the rotary dryer hopper, as evidenced by no weight entry associated with a time stamp or a load count inconsistent with that of the photoelectric sensor system (i.e., a missing data event), a default weight of 15,000 pounds shall be added into the record for each missed weight measurement (i.e. each charging event missing a corresponding measured weight value).

12) For the purpose of this condition, a false positive shall be defined as a

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missing data event not related to the charging of material into the rotary dryer feed hopper.

13) The default weight requirement in subpart 11 of this condition shall not apply for events where the video camera record, in conjunction with the video motion detector, clearly demonstrates that no missing data event occurred (i.e., a false positive event). In cases where the record shows that a missing data event was a false positive, Quemetco shall provide a notation in the daily log identifying the cause for the false positive.

14) If the number of missing data events (not counting false positives) exceeds four (4) in any two (2) hour recording period, Quemetco shall cease the charging of all materials to the rotary and reverberatory furnaces until all the factors causing the missing data events have been identified and corrected.

15) The number of missing data events (not counting false positives) shall not exceed ten (10) in any one 24 hour period.

16) Quemetco shall maintain standardized test weights for calibrating the Loadrite units. Each standardized test weight shall have a mass not less than 6000 pounds, and not more than 7500 pounds. In addition, each standard test weight shall be engraved or stamped with a unique serial number and the weight value in pounds.

17) The mass of each test weight shall be verified using a certified truck scale, not less than once per calendar month, and prior to the first use of the test weight. All calibrations of standard test weights shall be accompanied by truck scale weight tickets showing the tare and final weights used to assign the true weight to each standard test weight.

18) The truck scale shall have an active certification obtained from a governmental body with jurisdiction over truck scale calibrations, such as the State of California Department of Transportation.

19) Quemetco shall perform a calibration of each Loadrite unit in use by measuring the weight of standardized test weights at least daily at the beginning of

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each operation day. A total of two (2) standard test weights shall be used for each Loadrite calibration (i.e., a total bucket calibration weight of 12,000 to 15,000 lbs).

20) The value measured for the standardized test weight by a Loadrite unit in service shall not deviate from the actual value of the standard test weight by greater than three (3) percent.

21) Any standard test weight which becomes damaged, broken, or physically altered in a way which can cause a weight deviation of more than 100 pounds shall be immediately removed from service as a standard until it is recalibrated using the certified truck scale.

22) Not later than 30 days after this condition becomes effective, Quemetco shall submit a revised written Standard Operating Procedure (SOP) for the operation of the Loadrite load cell weighing system for AQMD approval. The written SOP shall comply with all requirements stated in this permit condition. Quemetco shall comply with the revised written SOP unless otherwise approved in writing by the AQMD.

23) Quemetco shall submit monthly reports documenting each bucket weight charged, each missing data event, and the total tons of material charged for each day of the month as well as all calibration data, and all operational anomalies associated with the furnace operation and/or feed weighing system operations.

24) Each report required by subpart 23 of these conditions shall be submitted to the AQMD's Toxics Team not later than the 10th day of the following month, for each month in the first six months following the issue date of this permit, and semiannually thereafter.

25) The semiannual report (required by subpart 23 of these conditions) covering January through June, inclusive, shall be submitted not later than August 31 of the same calendar year. The semiannual report covering July through December, inclusive, shall be submitted not later than February 28 of the following calendar year.

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

26) Quemetco shall keep and maintain all records required by this condition, including, but not limited to, serial number of each test weight, mass (in pounds) of each test weight, records of each test weight calibration, records of each test weight recalibration due to damage, recorder charts, Loadrite calibration data, daily production records, and daily read-only electronic records from SCADA (e.g., in the TIFF or PDF universal image formats).

27) All records required by this condition shall be kept onsite for a minimum of five years and made available to District personnel upon request. For those records which are generated in an electronic format, Quemetco shall comply with this condition by maintaining the electronic format of the records.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 1401, 12-7-1990]

[Devices subject to this condition : D3, D8]

C1.8 The operator shall limit the material processed to no more than 600,000 lb(s) in any one month.

For the purpose of this condition, material processed shall be defined as the combined, total amount of calcined carbon coke charged to the rotary dryer and reverberatory furnaces each calendar month.

The operator shall also limit the maximum combined daily amount of calcined carbon coke charged to the rotary dryer and reverberatory furnaces to no more than 32,700 lb(s) in any one day.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D3, D8]

C1.9 The operator shall limit the natural gas fuel usage to no more than 252000 cubic feet per day.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D3]

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

C1.10 The operator shall limit the propane fuel usage to no more than 2750 gallon(s) per day.

**[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]**

[Devices subject to this condition : D3]

C1.11 The operator shall limit the natural gas fuel usage to no more than 777000 cubic feet per day.

**[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]**

[Devices subject to this condition : D8]

C1.12 The operator shall limit the propane fuel usage to no more than 8510 gallon(s) per day.

**[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]**

[Devices subject to this condition : D8]

C1.13 The operator shall limit the material processed to no more than 20016 lb(s) in any one day.

For the purpose of this condition, material processed shall be defined as the total amount of calcined carbon coke charged to the slag furnace.

**[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]**

[Devices subject to this condition : D84]

C1.15 The operator shall limit the maintenance testing to no more than 50 hours in any one year.

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

[Devices subject to this condition : D162]

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

C1.16 The operator shall limit the operating time to no more than 84 hour(s) in any one calendar month.

[**RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 2012, 5-6-2005**]

[Devices subject to this condition : D165]

C1.17 The operator shall limit the operating time to no more than 204 in any one calendar year.

[**RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 1401, 3-4-2005; RULE 2012, 5-6-2005**]

[Devices subject to this condition : D165]

C6.1 The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, does not exceed 275 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.

[**RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 1407, 7-8-1994**]

[Devices subject to this condition : C35]

C6.2 The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, does not exceed 450 Deg F.

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

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.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 1407, 7-8-1994]

[Devices subject to this condition : C39, C88]

- C6.3 The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, does not exceed 290 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.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 1407, 7-8-1994]

[Devices subject to this condition : C21]

- C6.4 The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, does not exceed 330 Deg F.

To comply with this condition, the operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature in the exhaust duct located at the end of the rotary dryer furnace opposite the burner location. The readout from this device shall be referred to as the "rotary dryer exhaust temperature".

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1401, 12-7-1990]

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

[Devices subject to this condition : D3]

- C8.1 The operator shall use this equipment in such a manner that the pH being monitored, as indicated below, is not less than 8.9 of the pH scale.

To comply with this condition, the operator shall install and maintain a(n) pH meter to accurately indicate the pH in the recirculation tank serving the scrubber.

Each pH meter shall be equipped with a chart recorder to continuously monitor and record the pH in the recirculation tank serving the scrubber.

**[RULE 2005, 4-20-2001; RULE 2005, 5-6-2005]**

[Devices subject to this condition : C40]

- C8.2 The operator shall use this equipment in such a manner that the pH being monitored, as indicated below, is not less than 9.4 of the pH scale.

To comply with this condition, the operator shall install and maintain a(n) pH meter to accurately indicate the pH in the recirculation tank serving the scrubber.

Each pH meter shall be equipped with a chart recorder to continuously monitor and record the pH in the recirculation tank serving the scrubber.

**[RULE 2005, 4-20-2001; RULE 2005, 5-6-2005]**

[Devices subject to this condition : C89]

- C8.3 The operator shall use this equipment in such a manner that the flow rate being monitored, as indicated below, is not less than 66 gpm.

To comply with this condition, the operator shall install and maintain a(n) flow meter to accurately indicate the flow rate in the liquid supply lines to the top, and middle, each, of the absorber vessel.

**[RULE 2005, 4-20-2001; RULE 2005, 5-6-2005]**

[Devices subject to this condition : C89]

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

- C8.4 The operator shall use this equipment in such a manner that the flow rate being monitored, as indicated below, is not less than 80 gpm.

To comply with this condition, the operator shall install and maintain a(n) flow meter to accurately indicate the flow rate in the liquid supply lines to the top of each absorber vessel.

**[RULE 2005, 4-20-2001; RULE 2005, 5-6-2005]**

[Devices subject to this condition : C40]

- C8.5 The operator shall use this equipment in such a manner that the pH being monitored, as indicated below, is not less than 6.5 of the pH scale.

To comply with this condition, the operator shall install and maintain a(n) pH meter to accurately indicate the pH in the recirculation tank serving the scrubber.

Each pH meter shall be equipped with a chart recorder to continuously monitor and record the pH in the recirculation tank serving the scrubber.

**[RULE 2005, 5-6-2005; RULE 2011, 5-6-2005]**

[Devices subject to this condition : C139, C143, C147, C151, C155]

- C8.6 The operator shall use this equipment in such a manner that the flow rate being monitored, as indicated below, is not less than 1200 gpm.

To comply with this condition, the operator shall install and maintain a(n) flow meter to accurately indicate the flow rate in the liquid supply lines to the top of each scrubber compartment.

Each flow meter shall be equipped with a chart recorder to continuously record the recirculating liquid flow rate, in gallons per minute.

**[RULE 2005, 5-6-2005; RULE 2011, 5-6-2005]**

[Devices subject to this condition : C139, C143, C147, C151, C155]

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

- C8.7 The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, is not less than 1500 Deg F.

To comply with this condition, the operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature in the regenerative thermal oxidizer serving the rotary dryer furnace, in degrees Fahrenheit.

Each temperature measuring device shall be equipped with a chart recorder to continuously monitor and record the temperature in the regenerative thermal oxidizer.

Each temperature measuring device shall be accurate to within plus or minus 30 degrees Fahrenheit. Each device shall be calibrated once every 12 months.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1401, 3-4-2005; RULE 407, 4-2-1982]

[Devices subject to this condition : C161]

- C10.1 The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, is maintained between 750 and 1250 Deg F.

The operator shall monitor the temperature at the inlet of the non-selective catalytic reduction (NSCR) system. For the purpose of this condition, an average temperature based on a 4-hour rolling average shall be used to determine compliance..

[RULE 1110.2, 6-3-2005]

[Devices subject to this condition : D165]

- C303.1 The operator shall limit oxygen enrichment percent to between the amount specified by the following equation:  $OE = (OF \times 100)/(OF + AF)$

where:

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

- OE = oxygen enrichment percent.
- OF = standard cubic feet of gaseous oxygen supplied to a set of burners in any one day.
- AF = standard cubic feet of air supplied to a set of burners in any one day.
- And where the value of OE is limited to the following amounts.
- For the reverberatory furnace, OE = 56.0 to 82.0 percent.

**[RULE 2005, 4-20-2001; RULE 2005, 5-6-2005; RULE 2012, 12-5-2003; RULE 2012, 5-6-2005]**

[Devices subject to this condition : D8]

C303.2 The operator shall limit oxygen enrichment percent to no more than the amount specified by the following equation:  $OE = (OF \times 100)/(OF + AF)$

where:

- OE = oxygen enrichment percent.
- OF = standard cubic feet of gaseous oxygen supplied to a set of burners in any one day.
- AF = standard cubic feet of air supplied to a set of burners in any one day.
- And where the value of OE is limited to the following amounts.
- For the rotary dryer, OE = 6.0 percent maximum.

**[RULE 2005, 4-20-2001; RULE 2005, 5-6-2005; RULE 2012, 12-5-2003; RULE 2012, 5-6-2005]**

[Devices subject to this condition : D3]

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

#### D. Monitoring/Testing Requirements

- 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]
- D12.2 The operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the engine.  
[RULE 1110.2, 6-3-2005; RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996; RULE 1470, 3-4-2005; RULE 2012, 5-6-2005]  
[Devices subject to this condition : D162]
- 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.  
[RULE 1401, 12-7-1990; RULE 1407, 7-8-1994; RULE 1420, 9-11-1992; 40CFR 63 Subpart X, #02, 6-23-2003; 40CFR Part 64, 10-22-1997]  
[Devices subject to this condition : C21, C35, C39, C88]
- D12.9 The operator shall install and maintain a(n) flow meter to accurately indicate the flow rate in the baghouse inlet or outlet duct, in feet per minute.  
[RULE 1407, 7-8-1994]  
[Devices subject to this condition : C21, C35, C39, C88]
- D12.10 The operator shall install and maintain a(n) non-resettable totalizing fuel flow meter to accurately indicate the fuel usage of the equipment.  
[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

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

[Devices subject to this condition : D3, D8]

D12.11 The operator shall install and maintain a(n) pressure gauge to accurately indicate the pressure in the oxygen supply line to this equipment, in pounds per square inch.

[**RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 2005, 4-20-2001; RULE 2005, 5-6-2005**]

[Devices subject to this condition : D3, D8]

D12.12 The operator shall install and maintain a(n) flow meter to accurately indicate the flow rate in the oxygen gas supply line to this equipment. The flow meter shall totalize the oxygen flow rate and it shall provide the oxygen usage in units of total standard cubic feet.

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

[Devices subject to this condition : D3, D8]

D12.13 The operator shall install and maintain a(n) flow meter to accurately indicate the flow rate in the combustion air supply line to this equipment. The flow meter shall totalize the combustion air flow rate and it shall provide the air consumption in units of total standard cubic feet.

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

[Devices subject to this condition : D3, D8]

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**]

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

[Devices subject to this condition : C168]

D12.15 The operator shall install and maintain a(n) flow meter to accurately indicate the flow rate in the water wash supply line in each Wet Electrostatic Precipitator device.

Each flow meter shall be equipped with a chart recorder which continuously records the flow rate, in gallons per minute, and the duration, in minutes, of each wash cycle.

The flow rate to the Wet Electrostatic Precipitator spray wash nozzles shall not be less than 144 gallons per minute whenever a wash cycle is in progress.

Unless otherwise approved in writing by the Executive Officer, the initial number of wash cycles performed in each Wet Electrostatic Precipitator device shall not be less than one minute in every 6 hour interval of Wet Electrostatic Precipitator operation. Subsequent to each performance source test, the frequency and duration of wash cycles in each Wet Electrostatic Precipitator device shall not be less than the maximum frequency and duration of wash cycles performed during any one test run.

[RULE 1401, 3-4-2005; RULE 1402, 3-4-2005]

[Devices subject to this condition : C141, C145, C149, C153, C157]

D12.16 The operator shall install and maintain a(n) voltmeter to accurately indicate the voltage in the high voltage electric circuit serving each Wet Electrostatic Precipitator device.

The Wet Electrostatic Precipitator power supply shall be equipped with a chart recorder which continuously records the direct current voltage output to each Wet Electrostatic Precipitator device, in kilovolts.

Unless otherwise approved in writing by the Executive Officer, the initial electric field voltage in each Wet Electrostatic Precipitator device shall not be less than 15 kilovolts. Subsequent to each performance source test, the electric field voltage in each Wet Electrostatic Precipitator device shall not be less than the maximum field voltage used during any one test run.

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

[RULE 1401, 3-4-2005; RULE 1402, 3-4-2005]

[Devices subject to this condition : C141, C145, C149, C153, C157]

D12.17 The operator shall install and maintain a(n) flow meter to accurately indicate the flow rate in the exhaust outlet in each Wet Electrostatic Precipitator device.

Each flow meter shall be equipped with a chart recorder which continuously records the flow rate, in cubic feet per minute, or in feet per minute, in each Wet Electrostatic Precipitator device.

A minimum of 4 Wet Electrostatic Precipitators shall be in full operation at any one time.

[RULE 1401, 3-4-2005; RULE 1402, 3-4-2005; **RULE 204, 10-8-1993**]

[Devices subject to this condition : C142, C146, C150, C154, C158]

D12.18 The operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the engine.

[**RULE 1110.2, 6-3-2005; RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1703 - PSD Analysis, 10-7-1988; RULE 2011, 5-6-2005; RULE 2012, 5-6-2005**]

[Devices subject to this condition : D165]

D12.19 The operator shall install and maintain a(n) non-resettable totalizing fuel flow meter to accurately indicate the fuel usage of the engine.

[**RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1703 - PSD Analysis, 10-7-1988; RULE 2011, 5-6-2005; RULE 2012, 5-6-2005**]

[Devices subject to this condition : D165]

D12.20 The operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature at the the inlet to the NSCR.

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

[RULE 1110.2, 6-3-2005]

[Devices subject to this condition : D165]

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

A. The operator shall demonstrate compliance with all applicable ROG, CO, PM, PM10, lead and visible emission limits by conducting a source test no later than July 1, 2008, and not less than once every three years thereafter, using approved AQMD methods.

B. The test shall be conducted when the equipment is operating under normal conditions to demonstrate compliance with all applicable rule limits.

C. The operator shall comply with all general testing, reporting, and recordkeeping requirements in sections E and K of this permit.

D. The deadline for the initial WESP stack outlet tests (on Device S159) may be extended beyond July 1, 2008 upon written approval by the Executive Officer, provided that the extension is in full compliance with the Rule 1402 Risk Reduction Plan in effect at the time. To effect this extension, the operator shall submit a written request detailing the status of the project and the reasons why the extension is necessary at least 60 days prior to the deadline.

[**RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984; RULE 401, 11-9-2001; RULE 404, 2-7-1986; RULE 405, 2-7-1986; RULE 407, 4-2-1982; 40CFR 60 Subpart L, 12-3-1976; 40CFR 63 Subpart X, #02, 6-23-2003; 40CFR Part 64, 10-22-1997]**

[Devices subject to this condition : C35, C40, C89, S159]

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

## FACILITY PERMIT TO OPERATE QUEMETCO INC

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

A) The test(s) shall be conducted and a written report submitted to the AQMD not later than 180 days of initial startup of the RTO and WESP.

B) The test(s) shall be conducted for the RTO and WESP. The test(s) shall measure the emissions to the atmosphere as required in condition D182.6. In addition, the test(s) shall measure the inlet emission rates as required in condition D182.7, to determine if the supplementary process air pollution control equipment is performing as expected to meet Rule 1402 requirements.

C) A source testing plan shall be submitted to AQMD for approval at least 60 days prior to testing. All tests shall be conducted in accordance with the plan as approved.

D) 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.

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

F) Sampling facilities shall comply with the AQMD "Guidelines For The Construction Of Sampling And Testing Facilities", pursuant to Rule 217.

G) Written results shall be submitted to the AQMD within 60 days after testing and shall include the items listed in condition E448.1.

[RULE 1401, 3-4-2005; RULE 1402, 3-4-2005]

[Devices subject to this condition : S159, C161]

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

## FACILITY PERMIT TO OPERATE QUEMETCO INC

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

Tests shall be performed to measure the emissions to the atmosphere at the WESP stack outlet of the following toxic compounds while the reverberatory furnace, slag furnace, and refinery pot furnaces are operated at maximum capacity and maximum potential to emit.

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

Total Arsenic

Total Beryllium

Total Cadmium

Total Copper

Total Lead

Total Manganese

Total Mercury

Total Nickel

Total Selenium

Hexavalent Chromium

Benzene

Carbon Tetrachloride

Chlorobenzene

Chloroform

1,2-Dibromoethane

## **FACILITY PERMIT TO OPERATE QUEMETCO INC**

### **SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

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

1,4-Dichlorobenzene

1,2-Dichloroethane

1,1-Dichloroethene

1,4-Dioxane

Ethylbenzene

Methylene Chloride

Styrene

1,1,2,2-Tetrachloroethane

Tetrachloroethene

Toluene

1,1,2-Trichloroethane

Trichloroethene

Vinyl Chloride

o-Xylene

m,p-Xylenes

Polychlorinated Dibenzo-p-dioxins (PCDD's)

Polychlorinated Dibenzofurans (PCDF's)

Polychlorinated Biphenyls (PCB's)

## FACILITY PERMIT TO OPERATE QUEMETCO INC

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

Polynuclear Aromatic Hydrocarbons (PAH's)

Hydrogen Sulfide

Formaldehyde

Acetaldehyde

1,3-Butadiene

Total non-methane hydrocarbons

Oxides of Nitrogen

Oxides of Sulfur

Carbon Monoxide

Particulate Matter Less Than 10 microns (PM10)

[RULE 1401, 3-4-2005; RULE 1402, 3-4-2005]

[Devices subject to this condition : S159, C161]

**D182.7 The operator shall test this equipment in accordance with the following specifications:**

## FACILITY PERMIT TO OPERATE QUEMETCO INC

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

A. Tests shall be performed to measure the emissions, at the WESP inlet, of the following toxic compounds while the reverberatory furnace, slag furnace, and refinery pot furnaces are operated at maximum capacity. The tests performed at the WESP inlet shall be performed simultaneously with the tests at the WESP outlet.

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

Total Arsenic

Total Cadmium

Total Lead

Total Nickel

B. Tests shall be performed to measure the emissions at the RTO inlet, of the following compounds while the rotary dryer furnace and reverberatory furnace are operated at maximum capacity. The tests at the RTO inlet shall be performed simultaneously with the tests at the WESP outlet.

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

1,3-Butadiene

Benzene

Total non-methane hydrocarbons

Carbon Monoxide

[RULE 1401, 3-4-2005; RULE 1402, 3-4-2005]

[Devices subject to this condition : S159, C161]

## **FACILITY PERMIT TO OPERATE QUEMETCO INC**

### **SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

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

**D182.8 The operator shall test this equipment in accordance with the following specifications:**

## FACILITY PERMIT TO OPERATE QUEMETCO INC

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

- A) The test(s) shall be conducted not later than 180 days following the installation of this equipment. A written source test report shall be submitted to the Refinery and Waste Management Permitting Unit, Engineering and Compliance, not later than 45 days after the initial source test date. The test report shall contain all of the data and information required by Condition K 171.4.
- B) The test(s) shall be conducted on the exhaust outlet of the catalytic converter serving the internal combustion engine.
- C) The operator shall demonstrate compliance with all applicable ROG, NO<sub>x</sub>, and CO, emission limits by conducting a source test not less than once every three years following the initial source test, using approved AQMD methods.
- D) The test shall be conducted when the engine is operating under full load to demonstrate compliance with all applicable rule limits.
- E) The operator shall comply with all general testing, reporting, and recordkeeping requirements in sections E and K of this permit.
- F) The tests shall determine the concentration of non-methane hydrocarbons (ROG), oxides of nitrogen (NO<sub>x</sub>) and carbon monoxide (CO) emissions in the catalytic converter exhaust outlet in parts per million by volume adjusted to 15 percent oxygen (PPM<sub>v</sub> at 15% O<sub>2</sub>) on a dry basis.
- G) The tests shall also measure the concentration of carbon dioxide in percent by volume (CO<sub>2</sub>) at the catalytic converter exhaust outlet and the concentration of oxygen (O<sub>2</sub>) in percent by volume at both the inlet and outlet of the catalytic converter, on a dry basis.
- H) For the purpose of this condition, ROG emissions shall be reported as methane (CH<sub>4</sub>).
- I) The number and duration of each NO<sub>x</sub> source test run shall be performed in accordance with the requirements in the Rule 2012 protocol.
- J) The source tests shall be performed by a qualified testing laboratory and

## FACILITY PERMIT TO OPERATE QUEMETCO INC

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

conducted in accordance with acceptable AQMD procedures.

K) Sampling facilities shall comply with the AQMD "Guidelines For The Construction Of Sampling And Testing Facilities", pursuant to Rule 217.

L) Failure to comply with any of these conditions may result in the invalidation, or rejection, of test results. Any tests which are determined to be invalid, or rejected, by the AQMD's source test evaluation and/or permitting groups, shall be repeated.

[RULE 1110.2, 6-3-2005; **RULE 1303(a)(1)-BACT, 5-10-1996**; RULE 1303(a)(1)-BACT, 12-6-2002; **RULE 1303(b)(2)-Offset, 5-10-1996**; RULE 1303(b)(2)-Offset, 12-6-2002; **RULE 1703 - PSD Analysis, 10-7-1988**; **RULE 2012, 5-6-2005**; **RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997**]

[Devices subject to this condition : D165]

D182.9 The operator shall test this equipment in accordance with the following specifications:

## FACILITY PERMIT TO OPERATE QUEMETCO INC

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

- 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 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).
- 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 both rules.
- D) The tests shall be conducted while the batter wrecking and conveying system is 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.
- 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]

[Devices subject to this condition : C168]

## FACILITY PERMIT TO OPERATE QUEMETCO INC

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

D322.2 The operator shall perform a weekly inspection of the rotary dryer furnace and remove internal build-up of feed material adhering to the internal surface of the rotary dryer furnace.

To comply with this condition, the operator shall ,within 24 hours following the discovery of material build-up, remove material which has fused and/or adhered to the internal surface of the rotary dryer furnace.

To comply with this condition, the operator shall maintain a weekly written or hard copy report of each rotary dryer furnace inspection, including a full description of any maintenance work performed on this furnace. This weekly report shall be signed by the supervisor on duty during the shift when the inspection and/or maintenance activity is completed. This report shall be presented to AQMD personnel upon request.

[**RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1401, 12-7-1990**]

[Devices subject to this condition : D3]

## FACILITY PERMIT TO OPERATE QUEMETCO INC

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

#### **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, 12-12-1997; RULE 401, 3-2-1984; RULE 401, 11-9-2001]

## FACILITY PERMIT TO OPERATE QUEMETCO INC

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

[Devices subject to this condition : D1, D3, D8, D16, D17, D18, D19, D20, C40, D84, C89, D99, S159, C161]

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]

#### **E. Equipment Operation/Construction Requirements**

E57.1 The operator shall vent this equipment to the refinery baghouse of Device No. C21 whenever any chemicals or reagents are charged to the lead melting pot furnaces, including, but not limited to, fluxing, refining, and/or alloying materials.

[**RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002**]

## FACILITY PERMIT TO OPERATE QUEMETCO INC

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

[Devices subject to this condition : D16, D17, D18, D19, D20, D99, D100]

- E57.2 The operator shall vent this equipment to room ventilation baghouses equipped with HEPA filters whenever the pot furnaces are used only for melting lead or holding molten lead where no fluxing, refining, and/or alloying is performed. For the purpose of this condition, venting means operating in an enclosed building which is vented to room ventilation baghouses.

[**RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002**]

[Devices subject to this condition : D16, D17, D18, D19, D20, D99, D100]

- E71.1 The operator shall only operate this equipment if the concentration of oxides of nitrogen (NO<sub>x</sub>) in the combustion exhaust gas stack does not exceed 10 PPMv NO<sub>x</sub> at 3 percent oxygen.

[**RULE 2005, 4-20-2001; RULE 2005, 5-6-2005; RULE 2012, 12-5-2003; RULE 2012, 5-6-2005**]

[Devices subject to this condition : D100]

- E71.3 The operator shall only operate this equipment if the concentration of non-methane hydrocarbons (ROG) in the exhaust gas outlet does not exceed 11.0 PPMv ROG at 15 percent oxygen. For the purpose of this condition, ROG shall be calculated as methane (CH<sub>4</sub>).

[**RULE 1110.2, 6-3-2005; RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002**]

[Devices subject to this condition : D165]

- E71.4 The operator shall only operate this equipment if the concentration of oxides of nitrogen (NO<sub>x</sub>) in the exhaust gas outlet does not exceed 7.3 PPMv NO<sub>x</sub> at 15 percent oxygen.

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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:**

**[RULE 2005, 5-6-2005; RULE 2012, 5-6-2005]**

[Devices subject to this condition : D165]

- E71.5 The operator shall only operate this equipment if the concentration of carbon monoxide (CO) in the exhaust gas outlet does not exceed 36.0 PPMv CO at 15 percent oxygen.

**[RULE 1110.2, 6-3-2005; RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 1703 - PSD Analysis, 10-7-1988]**

[Devices subject to this condition : D165]

- 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]

- E115.1 The operator shall maintain an automatic air-to-fuel ratio controller so as to regulate the air-to-fuel ratio within tolerance limits as recommended by the catalyst supplier or manufacturer.

**[RULE 1110.2, 6-3-2005; RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 2012, 5-6-2005]**

[Devices subject to this condition : D165]

- E116.1 This engine shall not be used as part of a demand response program using interruptible service contract in which a facility receives a payment or reduced rates in return for reducing its electric load on the grid when requested to do so by the utility or the grid operator.

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

## **FACILITY PERMIT TO OPERATE QUEMETCO INC**

### **SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

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

[Devices subject to this condition : D162]

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

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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:**

- 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. 436957, 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

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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:**

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 Part 64.9 for a minimum of five years.

[RULE 1407, 7-8-1994; RULE 1420, 9-11-1992; 40CFR 63 Subpart X, #02, 6-23-2003;  
40CFR Part 64, 10-22-1997]

[Devices subject to this condition : C35, C39, C88]

E193.2 The operator shall restrict the operation of this equipment as follows:

Operation beyond the allotted time for engine maintenance and testing shall be allowed only in the event of a loss of grid power, or up to 30 minutes prior to a rotating outage, provided that the utility distribution company has ordered rotating outages, or has indicated that it expects to issue such an order at a certain time, in the control area where the engine is located.

Engine operation shall be terminated immediately after the utility distribution company advises that a rotating outage is no longer imminent or in effect.

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

## FACILITY PERMIT TO OPERATE QUEMETCO INC

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

[Devices subject to this condition : D162]

E193.3 The operator shall operate and maintain this equipment according to the following requirements:

A. This engine shall be fueled only on natural gas.

B. The catalytic converter temperature and inlet and outlet exhaust oxygen concentration shall be maintained within the effective operating range of the catalytic converter as specified by the manufacturer.

C. The accuracy of the catalytic converter temperature indicator and oxygen sensor shall be verified according to manufacturer's specifications at least once per year, prior to the performance of each annual compliance test.

D. The exhaust pipe shall discharge in a vertical direction, with no weather cap, and the exhaust outlet shall be maintained at a height above ground level of not less than 12 feet.

[RULE 1110.2, 6-3-2005; **RULE 1303(a)(1)-BACT, 5-10-1996**; RULE 1303(a)(1)-BACT, 12-6-2002; **RULE 1303(b)(2)-Offset, 5-10-1996**; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 1401, 3-4-2005; **RULE 1703 - PSD Analysis, 10-7-1988**]

[Devices subject to this condition : D165]

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

## FACILITY PERMIT TO OPERATE QUEMETCO INC

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

A Rule 1402 facility-wide health risk assessment (HRA) shall be performed subject to the following conditions:

A) Upon approval of the source test report for the WESP system, detailed dispersion modeling and an HRA shall be performed based on the new emission rate data and based on instructions provided by the AQMD subsequent to approval of the source test report.

B) Within 60 days following the District approval of the initial source test results, Quemetco shall submit a revised AB2588 HRA based on the approved source test results to determine the risk level (MICR and hazard indices) and the cancer burden.

C) Two copies of the HRA report shall be submitted to the District (Attention: Refinery and Waste Management Permitting.)

D) The HRA report prepared pursuant to this condition shall be used to demonstrate compliance with Rule 1402 requirements in conjunction with the Risk Reduction Plan submitted by Quemetco to the AQMD. The demonstrated risk shall not exceed the action risk levels as defined in Rule 1402 and the demonstration shall be completed within the timeline set forth in the rule.

[RULE 1402, 3-4-2005]

[Devices subject to this condition : S159]

E448.2 The operator shall comply with the following requirements:

## **FACILITY PERMIT TO OPERATE QUEMETCO INC**

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

Quemetco shall test the outlet of the WESPs for all of the compounds listed in Permit Condition D182.6 of the WESPs/RTO permit to construct and temporary permit to operate subject to the following conditions:

A) Source tests shall be performed once each year for two consecutive years following the completion of the initial source testing/HRA.

B) If, the initial testing/HRA, and the two subsequent annual testing/HRAs, all demonstrate a MICR below 10 in a million, the testing/HRA frequency shall be reduced to a minimum of at least one test/HRA every two years until a minimum of three consecutive District-approved tests/HRAs are performed which all verify that the MICR remains below 10 in a million.

C) If the three District-approved tests/HRAs conducted every two years all demonstrate that emissions are at or below the levels necessary to keep the Facility cancer risk below 10 in one million, subsequent source tests may be conducted at three-year intervals.

D) If, in any of the first three initial tests/HRAs, a test/HRA results in a MICR of 10 in a million or higher, the tests/HRAs shall continue on an annual basis until it is demonstrated in three consecutive annual District-approved tests/HRAs that the MICR is below 10 in a million.

E) If any tests/HRAs demonstrate a MICR of 10 in a million or higher, the tests/HRAs shall also be performed every year until three consecutive annual District-approved tests/HRAs demonstrate that the Facility is operating at a MICR below 10 in a million.

F) Tests/HRAs performed subsequent to a demonstration of compliance with part E of this condition shall be performed at the (2 year or 3 year) frequency in effect prior to the annual frequency required by condition E.

G) Notwithstanding the above, source testing and HRA submittal shall be required only once every 3 years, beginning July 2, 2022.

H) All written test results shall be submitted to the District within 45 days after

## FACILITY PERMIT TO OPERATE QUEMETCO INC

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

completion of the tests. If Quemetco has paid for expedited laboratory analysis and report preparation, but cannot provide a written report within 45 days, it may request the Executive Officer or his designee to grant an extension of up to 15 days and a reasonable extension will be granted upon a showing that the delay was due to conditions beyond the reasonable control of Quemetco, as determined by the Executive Officer.

I) In addition, within 60 days after the District approval of any of the tests, Quemetco shall submit a new HRA based on the source tests results. The HRA must be prepared in accordance with the OEHHA, CARB, and AQMD guidelines in effect at the time of the analysis and risks must be estimated using the latest approved version of Risk Assessment model available at the time.

[RULE 1402, 3-4-2005]

[Devices subject to this condition : S159]

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.

[RULE 1420, 9-11-1992]

[Devices subject to this condition : C168]

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

## FACILITY PERMIT TO OPERATE QUEMETCO INC

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

- A) The connections between the pot furnaces (device nos. D16, D17, D18, D19, D20, D99, and D100) and the wet electrostatic precipitator (WESP) exhaust intake manifold (device no. B138) shall be defined as the connection between the pot furnace burner exhaust stack and the WESP system.
- B) The connection between the pot furnace burner exhaust stack and the WESP exhaust intake manifold shall be located downstream of the pot furnace burner exhaust system NO<sub>x</sub> continuous emissions monitoring system (CEMS).
- C) The operator shall maintain RECLAIM certification of both the pot furnace burner exhaust CEMS and the WESP stack CEMS.
- D) The burner exhaust gas stream from the refining pot furnaces shall be diverted, by means of a damper system, to the WESP exhaust intake manifold at all times that the WESP system is in operation.
- E) A monitoring and recording device shall be installed and maintained which indicates and records the positions (open or closed) of the pot furnace burner exhaust stack damper.
- F) When the pot furnace combustion gas stack outlet damper is closed, and the exhaust gas damper from the pot furnace burner stack to the WESP exhaust intake manifold is open, the RECLAIM NO<sub>x</sub> emissions recorded by the pot furnace burner exhaust CEMS shall be deducted from the total facility RECLAIM NO<sub>x</sub> emissions recorded by the WESP stack certified NO<sub>x</sub> CEMS.
- G) When the pot furnace burner exhaust stack damper is open to the atmosphere, the RECLAIM NO<sub>x</sub> emissions for the pot furnaces shall be reported via the certified pot furnace burner exhaust NO<sub>x</sub> CEMS.
- H) Upon connection of the pot furnace burner exhaust stack to the WESP exhaust intake manifold, any period of time involving operation of the pot furnaces with the burner exhaust gas vented directly to atmosphere, shall be defined to be a period of abnormal operation.
- I) During each event of abnormal operation, as defined in this condition, and/or

## FACILITY PERMIT TO OPERATE QUEMETCO INC

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

during each event when the WESP system malfunctions and/or is not in full operation, the operator shall record the reason(s) for each event.

J) The operator shall keep and maintain all records required by this condition for a minimum of five years and shall make these records available to AQMD personnel upon request. These records shall be kept onsite and shall included, but not be limited to, monitoring records of each stack damper position (open and closed), and reasons.

[RULE 1407, 7-8-1994; RULE 1420, 9-11-1992; **RULE 2012, 5-6-2005; 40CFR 63 Subpart X, #02, 6-23-2003]**

[Devices subject to this condition : D16, D17, D18, D19, D20, D99, D100, B138, S159]

#### **H. Applicable Rules**

H23.2 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
Total hydrocarbon	District Rule	1470
ROG	District Rule	1470
NOX	District Rule	1470
CO	District Rule	1470
PM	District Rule	1470

[RULE 1470, 3-4-2005]

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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:**

[Devices subject to this condition : D162]

H23.3 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
ROG	District Rule	1110.2
CO	District Rule	1110.2

[RULE 1110.2, 6-3-2005; RULE 1703 - PSD Analysis, 10-7-1988]

[Devices subject to this condition : D165]

H116.2 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; 40CFR 63 Subpart X, #02, 6-23-2003]

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

H116.3 The operator shall ensure that the bag 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 Emissions Standards for Secondary Lead Smelting whenever this equipment is in operation.

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

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

## FACILITY PERMIT TO OPERATE QUEMETCO INC

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

H116.4 The operator shall operate the ozone generator of device B103 in such a manner that the amount of oxides of nitrogen controlled by the scrubber of device C40 is sufficient in order to comply with the Rule 2009.1 plan approved for this facility whenever the reverberatory furnace is in operation.

[RULE 2012, 12-5-2003; RULE 2012, 5-6-2005]

[Devices subject to this condition : C40]

#### **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 total quantity, in pounds, of calcined carbon coke charged to the slag furnace.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D84]

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 zero point calibration procedure used to calibrate the triboelectric-type broken bag detector.

Records from the baghouse inlet temperature recording device.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1407, 7-8-1994; 40CFR 63 Subpart X, #02, 6-23-2003; 40CFR Part 64, 10-22-1997]

[Devices subject to this condition : C35, C39, C88]

## FACILITY PERMIT TO OPERATE QUEMETCO INC

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

**K67.3** The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

An engine operating log shall be maintained which on a monthly basis shall include manual and automatic hours of operation, which identifies:

- A. Emergency use hours of operation
- B. Maintenance and testing hours
- C. Other operating hours (describe the reason for operation)

In addition, each time the engine is started manually, the log shall include the date of operation and the timer reading in hours at the beginning and end of operation. The log shall be kept for a minimum of three calendar years prior to the current year and made available to district personnel upon request. The total hours of operation for the previous calendar year shall be recorded not later than January 15 of each year.

[RULE 1110.2, 6-3-2005; **RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996;**  
RULE 1470, 3-4-2005; **RULE 204, 10-8-1993**]

[Devices subject to this condition : D162]

**K67.5** The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

The pressure drop and water flow rate of this equipment shall be monitored and recorded at least once every hour.

[**RULE 2011, 12-5-2003; RULE 2011, 5-6-2005**]

[Devices subject to this condition : C40, C89]

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

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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:**

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]

K67.9 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

A daily operating log documenting absorber liquid flow rate, in gallons per minute, and liquid pH, with entries made at intervals not to exceed 4 hours.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 2011, 12-5-2003; RULE 2011, 5-6-2005]

[Devices subject to this condition : C89]

K67.10 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

A daily operating log documenting absorber liquid flow rate, in gallons per minute, and liquid pH, with entries made at intervals not to exceed 4 hours, whenever the SOx CEMS is not in full operation.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 2011, 5-6-2005]

[Devices subject to this condition : C40]

K67.11 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

## FACILITY PERMIT TO OPERATE QUEMETCO INC

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

The total quantity, in standard cubic feet, of natural gas consumed in the rotary dryer furnace.

The total quantity, in gallons, of propane consumed in the rotary dryer furnace.

The total quantity, in standard cubic feet, of enrichment oxygen supplied to the rotary dryer furnace.

The total quantity, in standard cubic feet, of combustion air, supplied to the rotary dryer furnace.

The daily average level of oxygen enrichment percent calculated for the rotary dryer furnace.

The rotary dryer exhaust temperature, once per shift, in Deg F

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D3]

K67.12 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

## FACILITY PERMIT TO OPERATE QUEMETCO INC

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

The total quantity, in pounds each, of total material and calcined carbon coke, charged to the reverberatory furnace and rotary dryer, respectively.

The total quantity, in standard cubic feet, of natural gas consumed in the reverberatory furnace.

The total quantity, in gallons, of propane consumed in the reverberatory furnace.

The total quantity, in standard cubic feet, of enrichment oxygen supplied to the reverberatory furnace.

The total quantity, in standard cubic feet, of combustion air supplied to the reverberatory furnace.

The daily average level of oxygen enrichment percent calculated for the reverberatory furnace.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D8]

K67.13 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

The total amount, in tons, of raw lead metal produced by the reverberatory furnace each day, each calendar month and each calendar quarter.

The total amount, in tons, of raw lead metal produced by the lead slag furnace each day, each calendar month and each calendar quarter.

The total amount, in tons, of separated plastic shipped offsite each day, each calendar month and each calendar quarter.

The ratio of the total tons of separated plastic shipped off site to the combined, total tons of raw lead metal produced by the reverberatory and lead slag furnaces each calendar quarter.

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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:**

**[RULE 204, 10-8-1993]**

[Devices subject to this condition : D1, D8, D84]

K67.14 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

The total amount, in pounds, of sulfur charged to the pot furnaces each hour.

The total amount, in pounds, of sulfur charged to the pot furnaces each day.

The total amount, in pounds, of phosphorous charged to the pot furnaces each day.

The total amount, in pounds, of phosphorous charged to the pot furnaces each calendar month.

The total amount, in tons, of all materials charged to the pot furnaces each day.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 1401, 12-7-1990]**

[Devices subject to this condition : D16, D17, D18, D19, D20, D99, D100]

K67.15 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

The water flow rate of this equipment shall be monitored and recorded at least once every hour.

**[RULE 2011, 5-6-2005]**

[Devices subject to this condition : C139, C143, C147, C151, C155]

K67.16 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

## FACILITY PERMIT TO OPERATE QUEMETCO INC

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

Records from the regenerative thermal oxidizer temperature recording device(s).

The dates on which calibrations of the regenerative thermal oxidizer temperature recording device(s) are performed.

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

[Devices subject to this condition : C161]

K67.17 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

A daily operating log documenting absorber liquid flow rate, in gallons per minute, and liquid pH, with entries made at intervals not to exceed 4 hours.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 2011, 5-6-2005]**

[Devices subject to this condition : C139, C143, C147, C151, C155]

K67.18 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

## FACILITY PERMIT TO OPERATE QUEMETCO INC

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

An engine operating log shall be maintained which on a monthly basis shall include manual and automatic hours of operation, which identifies:

- A) Total hours of operation.
- B) Each time the engine is started manually, the date of operation and the timer reading in hours at the beginning and end of operation.
- C) Cumulative operating hours since the last source test.
- D) Total natural gas usage in standard cubic feet.
- E) Records of the annual catalytic converter oxygen sensor and temperature sensor accuracy verification tests.
- F) Copies of the annual compliance source test reports.

The log shall be kept for a minimum of three calendar years prior to the current year and made available to district personnel upon request. The total hours of operation for the previous calendar year shall be recorded not later than January 15 of each year.

[RULE 1110.2, 6-3-2005; RULE 2012, 5-6-2005; RULE 204, 10-8-1993]

[Devices subject to this condition : D165]

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

## **FACILITY PERMIT TO OPERATE QUEMETCO INC**

### **SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

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

A) A source testing plan, for oxides of nitrogen testing of the pot furnace burner exhausts, shall be submitted which contains a list of proposed furnace operating parameters which will be present during each test run for each pot furnace tested including, but not limited to, the following:

1. natural gas usage, in standard cubic feet per hour.
2. propane gas usage, in standard cubic feet per hour.
3. lead pot temperature, in degrees Fahrenheit.

B) The test plan shall be submitted for AQMD 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 AQMD 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.
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).

C) The test plan shall be submitted to the Toxics Team, Engineering and Compliance, not less than 30 days before the proposed test date and shall be approved by the AQMD before the test commences. The plan shall include the proposed operating conditions of the equipment during the test.

## FACILITY PERMIT TO OPERATE QUEMETCO INC

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

D) Within 10 business days following each test date, Quemetco shall submit a written statement to the AQMD disclosing the furnace operating parameters during each test run on each test day.

E) The AQMD engineer assigned to this facility shall be notified in writing of the date and time of the test at least 10 days prior to the test, or within a time period agreed upon by the AQMD engineer.

[RULE 2012, 12-5-2003; RULE 2012, 5-6-2005]

[Devices subject to this condition : D100]

K171.4 The operator shall provide to the District the following items:

## **FACILITY PERMIT TO OPERATE QUEMETCO INC**

### **SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

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

A) A source testing plan shall be submitted which contains a list of proposed engine operating parameters which will be present during each test run including, but not limited to, the following:

1. The engine load, in horsepower, which will be used during the testing period.
2. Natural gas usage, in standard cubic feet per hour.
3. Catalytic converter temperature, in degrees Fahrenheit.
4. Catalytic converter inlet and outlet oxygen concentrations, in percent by volume on a dry basis.

B) The test plan shall be submitted for AQMD 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 AQMD 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).

## **FACILITY PERMIT TO OPERATE QUEMETCO INC**

### **SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

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

C) The test plan shall be submitted to the Refinery and Waste Management Team, Engineering and Compliance, not less than 30 days before the proposed test date and shall be approved by the AQMD before the test commences.

D) Within 10 business days following each test date, Quemetco shall submit a written statement to the AQMD disclosing the engine operating parameters during each test run on each day that testing is performed.

E) The AQMD engineer assigned to this facility shall be notified in writing of the date and time of the test at least 10 days prior to the test, or within a time period agreed upon by the AQMD engineer.

[RULE 1110.2, 6-3-2005; **RULE 204, 10-8-1993**]

[Devices subject to this condition : D165]

K171.5 The operator shall provide to the District the following items:

## **FACILITY PERMIT TO OPERATE QUEMETCO INC**

### **SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

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

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 batter 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).

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 Partial Enclosure Building, and the associated baghouse, is completed.

## **FACILITY PERMIT TO OPERATE QUEMETCO INC**

### **SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

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

[RULE 1420, 9-11-1992]

[Devices subject to this condition : C168]