

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: SECONDARY LEAD SMELTING					
System 1: BATTERY CRUSHING AND MATERIAL SEPARATION SYSTEM					S53.1
CONVEYOR, BELT, TRANSPORT AND SORTING A/N:	D112	C168 C169 C170		PM: (9) [RULE 405, 2-7-1986]	
CONVEYOR, BELT, INCLINED, BATTERY TRANSPORT A/N:	D113	C168 C169 C170		PM: (9) [RULE 405, 2-7-1986]	
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. WITH A/N:	D1	C2 C168 C169 C170		LEAD: (10) [40CFR 63 Subpart X, 1-3-2014]; PM: (9) [RULE 405, 2-7-1986]	B163.4, D323.1, K67.13
CONVEYOR, SCREW, DISCHARGE	D115	C168 C169 C170		PM: (9) [RULE 405, 2-7-1986]	
SETTLING TANK, SINK/FLOAT, CRUSHED BATTERIES, WITH SURFACE TRANSPORT PADDLES FOR CASE MATERIAL WITH A/N:	D116	C168 C169 C170		PM: (9) [RULE 405, 2-7-1986]	
CONVEYOR, DRAG, LEAD	D117	C168 C169 C170		PM: (9) [RULE 405, 2-7-1986]	
CONVEYOR, SCREW, CASE MATERIAL TRANSPORT AND DISCHARGE	D118	C168 C169 C170			

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 (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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FEEDER, PASTE WASHING, VIBRATORY TABLE TYPE WITH A/N:	D119	C168 C169 C170		PM: (9) [RULE 405, 2-7-1986]	
TANK, LEAD PASTE, DESULPHURIZATION	D120	C168 C169 C170		PM: (9) [RULE 405, 2-7-1986]	
TANK, HOLDING	D121	C168 C169 C170			
TANK, SURGE	D122	C168 C169 C170			
FILTER PRESS, LEAD PASTE	D123	C30 C31 C32 C168 C169 C170			
SCREEN, VIBRATING TYPE, HEAVY MATERIAL, WITH TWO 8-H.P. VIBRATORS AND THREE WIRE SCREEN PANELS A/N:	D197	C168 C169 C170		PM: (9) [RULE 405, 2-7-1986]	
CENTRIFUGE, SCROLL, HEAVY MATERIAL, WITH ONE 20-H.P. ROTATION MOTOR AND TWO 1.5-H.P. VIBRATION MOTORS, 1 TOTAL A/N:	D198	C168 C169 C170		PM: (9) [RULE 405, 2-7-1986]	
CONVEYOR, SCREW, BATTERY CRUSHER MATERIAL, TRANSPORT A/N:	D124	C30 C31 C32 C168 C169 C170		PM: (9) [RULE 405, 2-7-1986]	

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Process 1: SECONDARY LEAD SMELTING					
SETTLING TANK, SINK/FLOAT AND RINSE, HEAVY MATERIAL DISCHARGE, WITH AGITATING/TRANSPORT PADDLES WITH A/N:	D126	C168 C169 C170		PM: (9) [RULE 405, 2-7-1986]	
CONVEYOR, SCREW, HEAVY MATERIAL, DISCHARGE	D127	C168 C169 C170		PM: (9) [RULE 405, 2-7-1986]	
CONVEYOR, SCREW, PLASTIC MATERIAL, DISCHARGE	D128	C168 C169 C170			
CONVEYOR, SCREW, HEAVY MATERIAL, TRANSPORT A/N:	D129	C168 C169 C170		PM: (9) [RULE 405, 2-7-1986]	
CONVEYOR, SCREW, HEAVY MATERIAL, TRANSPORT A/N:	D130	C168 C169 C170		PM: (9) [RULE 405, 2-7-1986]	
CONVEYOR, SCREW, HEAVY MATERIAL, TRANSPORT A/N:	D131	C168 C169 C170		PM: (9) [RULE 405, 2-7-1986]	
CONVEYOR, SCREW, HEAVY MATERIAL, TRANSPORT A/N:	D132	C30 C31 C32 C168 C169 C170		PM: (9) [RULE 405, 2-7-1986]	
SETTLING TANK, SINK/FLOAT, CASE MATERIAL, WITH AGITATING/TRANSPORT PADDLES WITH A/N:	D133	C168 C169 C170		PM: (9) [RULE 405, 2-7-1986]	
CONVEYOR, SCREW, HEAVY MATERIAL, TRANSPORT	D134	C168 C169 C170		PM: (9) [RULE 405, 2-7-1986]	
CONVEYOR, SCREW, PLASTIC, DISCHARGE	D135	C168 C169 C170			

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- (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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Process 1: SECONDARY LEAD SMELTING					
FEEDER, PLASTIC, DE-WATERING/TRANSPORT, VIBRATORY TABLE TYPE, WITH 2 10-H.P. VIBRATORS A/N:	D136	C168 C169 C170		PM: (9) [RULE 405, 2-7-1986]	
CONVEYOR, PNEUMATIC, PLASTIC MATERIAL, TRANSPORT, WITH 2 15-H.P. BLOWERS A/N:	D137	C168 C169 C170		PM: (9) [RULE 405, 2-7-1986]	
SCRUBBER, VENTURI, D.R. TECHNOLOGY, INC., MODEL CUSTOM A/N: 542750	C2	D1 C109 C168 C169 C170		PM: (9) [RULE 404, 2-7-1986]	D323.1
CYCLONE, WITH A 50-HP MINIMUM EXHAUST BLOWER AND AN INTEGRAL 500 GALLON TANK, HEIGHT: 17 FT 6 IN; DIAMETER: 5 FT 6 IN A/N: 542750	C109	C2 C30 C31 C32 C168 C169 C170		PM: (9) [RULE 404, 2-7-1986]	
System 2: FEED DRYING SYSTEM					
FURNACE, ROTARY, 6 FT. - 5IN. DIA. X 31 FT. - 0 IN. L., DRIVEN BY ONE 40-H.P. ELECTRIC MOTOR, NATURAL GAS, WITH A NORTH AMERICAN MODEL 42-13-10-LEX BURNER, 10 MMBTU/HR A/N:	D3	C28 C29 C35 C182	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; LEAD: (10) [40CFR 63 Subpart X, 1-3-2014]; PM: (9) [RULE 405, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	A63.2, B59.2, B163.3, C1.7, C1.8, C1.9, C6.4, C303.2, D12.10, D12.11, D12.12, D12.13, D182.4, D182.12, D322.2, D323.1, K67.11

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Process 1: SECONDARY LEAD SMELTING					
HOPPER, FURNACE FEED A/N:	D5	C30 C31 C32		LEAD: (10) [40CFR 63 Subpart X, 1-3-2014]; PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, BELT, FURNACE FEED A/N:	D6	C28 C29		LEAD: (10) [40CFR 63 Subpart X, 1-3-2014]; PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, SCREW, KILN FEEDER A/N:	D7	C30 C31 C32		LEAD: (10) [40CFR 63 Subpart X, 1-3-2014]; PM: (9) [RULE 405, 2-7-1986]	D323.1
System 3: LEAD SWEATING SYSTEM					

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Process 1: SECONDARY LEAD SMELTING					
FURNACE, REVERBERATORY, NATURAL GAS, LEAD ACID BATTERY SCRAP, 34 MMBTU/HR WITH A/N:	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, 1-3-2014]; NOX: 133.64 PPMV NATURAL GAS (3) [RULE 2012, 2-5-2016]; NOX: 133.64 PPMV LPG (3) [RULE 2012, 2-5-2016]; 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]	A63.3, B59.2, B163.3, C1.7, C1.8, C1.11, C303.1, D12.10, D12.11, D12.12, D12.13, D182.4, D182.12, D323.1, K67.12, K67.13, D323.1
CHARGING WELL, LEAD ACID BATTERY SCRAP	D9	C28 C29 C30 C31 C32 C88		LEAD: (10) [40CFR 63 Subpart X, 1-3-2014]; PM: (9) [RULE 405, 2-7-1986]	
TAPPING PORT, LEAD	D10	C28 C29 C35 C182			
TAPPING PORT, LEAD SLAG, WITH A CASTING ENCLOSURE	D11	C28 C29 C39 C88			
TAPPING PORT, LEAD SLAG, WITH A CASTING ENCLOSURE	D110	C28 C29 C88			
CONVEYOR, SCREW, FURNACE FEED	D98	C28 C29			
CONVEYOR, BELT, SLAG DISCHARGE	D13				
System 4: LEAD SLAG PROCESSING SYSTEM					

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Process 1: SECONDARY LEAD SMELTING					
FURNACE, ELECTRIC, LEAD SLAG, WITH THREE ELECTRODES, ELECTRIC RESISTANCE TYPE, 2500 KW WITH A/N:	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, 1-3-2014]; NOX: 0.021 LBS/TON MATERIAL (1) [RULE 2012, 2-5-2016]; 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]; SOX: 0.036 LBS/TON MATERIAL (1) [RULE 2011, 2-5-2016] LEAD: (10) [40CFR 63 Subpart X, 1-3-2014]; PM: (9) [RULE 405, 2-7-1986]	A63.4, B59.2, B163.2, B295.3, B295.4, C1.13, D182.4, D182.12, D323.1, K67.1, K67.13
TAPPING PORT, LEAD	D85	C33 C34 C88			
TAPPING PORT, SLAG	D86	C33 C34 C88			
BAGHOUSE, PTFE MEMBRANE, WHEELABRATOR, MODEL CUSTOM, 16493 SQ.FT.; 1200 BAGS A/N:	C88	D11 D13 D84 D85 D86 C89 D110		LEAD: (10) [40CFR 63 Subpart X, 1-3-2014]; PM: (9) [RULE 404, 2-7-1986]	C6.2, D12.1, 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:	C89	C88 B138			A63.4, C8.2, C8.3, D182.4, D182.12, D182.13, D323.1, K67.5, K67.9
System 5: LEAD METAL REFINING SYSTEM					

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FURNACE, POT, LIQUIFIED PETROLEUM GAS, NATURAL GAS, LEAD REFINING, WITH A NORTH AMERICAN MODEL 4422-8A BURNER, 4.24 MMBTU/HR A/N: 509234	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, 1-3-2014]; PM: (9) [RULE 405, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	A63.5, B59.1, 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: 509235	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, 1-3-2014]; PM: (9) [RULE 405, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	A63.5, B59.1, 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: 509236	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, 1-3-2014]; PM: (9) [RULE 405, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	A63.5, B59.1, 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: 509237	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, 1-3-2014]; PM: (9) [RULE 405, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	A63.5, B59.1, 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: 509238	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, 1-3-2014]; PM: (9) [RULE 405, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	A63.5, B59.1, C1.2, C1.3, C1.4, D323.1, E57.1, E57.2, E448.4, K67.14

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FURNACE, POT, LIQUIFIED PETROLEUM GAS, NATURAL GAS, LEAD REFINING, WITH A NORTH AMERICAN MODEL 4422-8A BURNER, 4.24 MMBTU/HR A/N: 509239	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, 1-3-2014]; PM: (9) [RULE 405, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	A63.5, B59.1, 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: 509240	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, 1-3-2014]; PM: (9) [RULE 405, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	A63.5, B59.1, C1.2, C1.3, C1.4, D323.1, E57.1, E57.2, E71.1, E448.4, K67.14
BAGHOUSE, WITH 605 BAGS, EACH 5.875 INCH DIAMETER X 8 FEET LONG, PTFE MEMBRANE, DONALDSON TORIT, MODEL 5X121FTP8, WITH A 200 HP BLOWER AND A BROKEN BAG DETECTOR, PULSE JET CLEANED, 7444 SQ.FT. A/N: 518048	C21	D16 D17 D18 D19 D20 D22 D23 D99 D100 B138		LEAD: (10) [40CFR 63 Subpart X, 1-3-2014]; PM: (9) [RULE 404, 2-7-1986]	A63.5, C6.3, D12.1, D12.5, D12.9, D381.1, E102.1, E193.1, H116.2, H116.3, K67.2
HOPPER, DUST, POT FURNACE A/N: 148336	D22	C21 C26 C27		LEAD: (10) [40CFR 63 Subpart X, 1-3-2014]; PM: (9) [RULE 405, 2-7-1986]	D323.1
HOPPER, DUST, POT FURNACE A/N: 148336	D23	C21 C26 C27		LEAD: (10) [40CFR 63 Subpart X, 1-3-2014]; PM: (9) [RULE 405, 2-7-1986]	D323.1
STACK, , REFINING POT FURNACE BURNER EXHAUST A/N: 509234	S164	D16 D17 D18 D19 D20 D99 D100			
System 6: FUGITIVE DUST CONTROL SYSTEM					
FLOOR SWEEP A/N: 243723	D25	C28		LEAD: (10) [40CFR 63 Subpart X, 1-3-2014]; PM: (9) [RULE 405, 2-7-1986]	D323.1

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: SECONDARY LEAD SMELTING					
BAGHOUSE, NO. 00FA, BUSCH INTERNATIONAL, WITH 20 HEPA FILTERS,EACH 2FT W.X 1FT L.X 2FT H.,AND A 75-HP MIN. EXHAUST BLOWER, 4169 SQ.FT.; 196 BAGS A/N: 243721	C26	D16 D17 D18 D19 D20 D22 D23 C27 D99 D100		LEAD: (10) [40CFR 63 Subpart X, 1-3-2014]; PM: (9) [RULE 404.2-7-1986]	D12.1, D12.14, D381.1, E102.1, K67.6
BAGHOUSE, NO. 00FB, BUSCH INTERNATIONAL, WITH 20 HEPA FILTERS,EACH 2FT W.X 1FTL.X 2FT H.,AND A 75-HP MIN. EXHAUST BLOWER, 4169 SQ.FT.; 196 BAGS A/N: 243722	C27	D16 D17 D18 D19 D20 D22 D23 C26 D99 D100		LEAD: (10) [40CFR 63 Subpart X, 1-3-2014]; PM: (9) [RULE 404.2-7-1986]	D12.1, D12.14, D381.1, E102.1, K67.6
BAGHOUSE, NO. 00FC, BUSCH INTERNATIONAL, WITH 20 HEPA FILTERS,EACH 2FT W.X 1FTL.X 2FT H.,AND A 75-HP MIN. EXHAUST BLOWER, 4169 SQ.FT.; 196 BAGS A/N: 243723	C28	D3 D6 D8 D9 D10 D11 D13 D25 C29 D98 D110		LEAD: (10) [40CFR 63 Subpart X, 1-3-2014]; PM: (9) [RULE 404.2-7-1986]	D12.1, D12.14, D381.1, E102.1, K67.6
BAGHOUSE, NO. 00FD, BUSCH INTERNATIONAL, WITH 20 HEPA FILTERS,EACH 2FT W.X 1FTL.X 2FT H.,AND A 75-HP MIN. EXHAUST BLOWER, 4169 SQ.FT.; 196 BAGS A/N: 243724	C29	D3 D6 D8 D9 D10 D11 D13 C28 D98 D110		LEAD: (10) [40CFR 63 Subpart X, 1-3-2014]; PM: (9) [RULE 404.2-7-1986]	D12.1, D12.14, D381.1, E102.1, K67.6
BAGHOUSE, NO. 00DBE, BUSCH INTERNATIONAL, WITH 25 HEPA FILTERS,EACH 2FT W.X 1FTL.X 2FT H.,AND A 75-HP MIN. EXHAUST BLOWER, 4169 SQ.FT.; 196 BAGS A/N: 259468	C30	D5 D7 D13 C31 C109 D123 D124 D132		LEAD: (10) [40CFR 63 Subpart X, 1-3-2014]; PM: (9) [RULE 404.2-7-1986]	D12.1, D12.14, D381.1, E102.1, K67.6

- * (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 D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: SECONDARY LEAD SMELTING					
BAGHOUSE, NO. 00DCF, BUSCH INTERNATIONAL, WITH 25 HEPA FILTERS,EACH 2FT W.X 1FTL.X 2FT H.,AND A 75-HP MIN. EXHAUST BLOWER, 4169 SQ.FT.; 196 BAGS A/N: 259469	C31	D5 D7 D13 C30 C109 D123 D124 D132		LEAD: (10) [40CFR 63 Subpart X, 1-3-2014]; PM: (9) [RULE 404.2-7-1986]	D12.1, D12.14, D381.1, E102.1, K67.6
BAGHOUSE, NO. 00DAG, BUSCH INTERNATIONAL, WITH 25 HEPA FILTERS,EACH 2FT W.X 1FTL.X 2FT H.,AND A 75-HP MIN. EXHAUST BLOWER, 4169 SQ.FT.; 196 BAGS A/N: 259470	C32	D5 D7 D13 C33 C109 D123 D124 D132		LEAD: (10) [40CFR 63 Subpart X, 1-3-2014]; PM: (9) [RULE 404.2-7-1986]	D12.1, D12.14, D381.1, E102.1, K67.6
BAGHOUSE, NO. BEH, BUSCH INTERNATIONAL, WITH 25 HEPA FILTERS,EACH 2FT W.X 1FTL.X 2FT H.,AND A 75-HP MIN. EXHAUST BLOWER, 4169 SQ.FT.; 196 BAGS A/N: 275629	C33	C32 C34 D84 D85 D86		LEAD: (10) [40CFR 63 Subpart X, 1-3-2014]; PM: (9) [RULE 404.2-7-1986]	D12.1, D12.14, D381.1, E102.1, K67.6
BAGHOUSE, NO. BWI, BUSCH INTERNATIONAL, WITH 25 HEPA FILTERS,EACH 2FT W.X 1FTL.X 2FT H.,AND A 75-HP MIN. EXHAUST BLOWER, 4169 SQ.FT.; 196 BAGS A/N: 275631	C34	C33 D84 D85 D86		LEAD: (10) [40CFR 63 Subpart X, 1-3-2014]; PM: (9) [RULE 404.2-7-1986]	D12.1, D12.14, D381.1, E102.1, K67.6

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

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Process 1: SECONDARY LEAD SMELTING					
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 A/N: 488107	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 D197 D198		LEAD: (10) [40CFR 63 Subpart X, 1-3-2014]; PM: (9) [RULE 404.2-7-1986]	D12.1, D12.14, D381.1, E102.1, E448.3, K67.6
BAGHOUSE, NO. K, PTFE MEMBRANE, BUSCH INTERNATIONAL, WITH 25 HEPA FILTERS,EACH 2FT W.X 1FT L.X 2FT H.,AND A 125-HP EXHAUST BLOWER, 4169 SQ.FT.; 196 BAGS A/N: 525799	C170	D1 C2 C109 D112 D113 D115 D116 D117 D118 D119 D120 D121 D122 D123 D124 D125 D126 D127 D128 D129 D130 D131 D132 D133 D134 D135 D136 D137 C169 D197 D198		LEAD: (10) [40CFR 63 Subpart X, 1-3-2014]; PM: (9) [RULE 404.2-7-1986]	D12.1, D12.14, D381.1, E102.1, E448.3, K67.6

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

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: SECONDARY LEAD SMELTING					
ENCLOSURE, BUILDING, BATTERY BREAKING AREA, 90 FT. W. X 180 FT. L. X 54 FT. H., APPROXIMATE DIMENSIONS A/N: 488107	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 C170 D197 D198		LEAD: (10) [40CFR 63 Subpart X, 1-3-2014]; PM: (9) [RULE 404, 2-7-1986]	D381.1, E448.5
System 7: REVERBERATORY FURNACE SANITARY APCS					
BAGHOUSE, WHEELABRATOR, MODEL 126, 29568 SQ.FT.; 2112 BAGS A/N:	C35	D3 D10 C161		LEAD: (10) [40CFR 63 Subpart X, 1-3-2014]; PM: (9) [RULE 404, 2-7-1986]	A63.2, C6.1, D12.1, D12.5, D12.9, D182.4, D182.12, D381.1, E102.1, E193.1, H116.2, H116.3, K67.2
System 8: REVERBERATORY FURNACE PROCESS APCS					
COOLER, WATER JACKET TYPE, HEIGHT: 34 FT ; DIAMETER: 9 FT A/N:	C37	D8 D9 C38		LEAD: (10) [40CFR 63 Subpart X, 1-3-2014]; PM: (9) [RULE 405, 2-7-1986]	
KNOCK OUT POT, WITH A WATER SPRAY PUMP, HEIGHT: 34 FT ; DIAMETER: 5 FT A/N:	C38	C37 C39 D196		LEAD: (10) [40CFR 63 Subpart X, 1-3-2014]; PM: (9) [RULE 405, 2-7-1986]	

- * (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

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: SECONDARY LEAD SMELTING					
BAGHOUSE, PTFE MEMBRANE, WHEELABRATOR, 20782 SQ.FT.; 1440 BAGS A/N:	C39	D11 C38 C40 D61 C104		LEAD: (10) [40CFR 63 Subpart X, 1-3-2014]; PM: (9) [RULE 404, 2-7-1986]	C6.2, D12.1, D12.5, D12.9, D381.1, E102.1, E193.1, H116.2, H116.3, K67.2
COOLER, OXIDIZER GAS, PROCESS CHILLER, EDWARDS ENG., 7 FT-10 IN W. X 12 FT-6 IN L. X 5 FT-8 IN H. A/N:	B102	B103			
REACTOR, OZONE GENERATOR, PCI/WEDCO, 133 KW ELECTRICALLY POWERED, WIDTH: 10 FT 5 IN; HEIGHT: 8 FT 9 IN; LENGTH: 15 FT 10 IN A/N:	B103	B102 C107			
TOWER, REVERBERATORY FURNACE EXHAUST GAS, QUENCH WATER SPRAY, WITH TWO 20-H.P. WATER SPRAY PUMPS, HEIGHT: 21 FT 9 IN; DIAMETER: 7 FT 3 IN A/N:	C104	C39 C105			
MIST ELIMINATOR, KOCH-OTTO YORK A/N:	C105	C104 C107			
MIXER, OZONE AND EXHAUST GAS A/N:	C107	B103 C105 C108			
REACTOR, BOC, NITROGEN OXIDES OXIDATION, TWO PASS, HEIGHT: 40 FT ; DIAMETER: 8 FT A/N:	C108	C40 C107			

- * (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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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: SECONDARY LEAD SMELTING					
SCRUBBER, TRAY, : EACH OF TWO VESSELS., HEIGHT: 20 FT ; DIAMETER: 10 FT A/N:	C40	C39 C108 B138			A63.3, C8.1, C8.4, D182.4, D182.12, D182.13, D323.1, E51.1, K67.5, K67.10
Process 2: BULK MATERIAL HANDLING AND PROCESSING					
System 1: BULK MATERIAL STORAGE SYSTEM					
STORAGE SILO, SODIUM CARBONATE RECEIVING AND STORAGE A/N: 107066	D74			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, SODIUM CARBONATE RECEIVING AND STORAGE A/N: 107066	D75			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, PNEUMATIC, SODIUM CARBONATE, WITH FABRIC FILTER A/N: 107066	D76			PM: (9) [RULE 404, 2-7-1986; RULE 405, 2-7-1986]	D381.2
System 2: SODIUM CARBONATE RECEIVING, SLURRY PRODUCING AND TRANSFER SYSTEM					
TANK, SURGE, UNHEATED, SODIUM CARBONATE, SLURRY MIXING A/N: C07893	D53	C54		PM: (9) [RULE 405, 2-7-1986]	D323.1
FILTER, BAG, BIN VENT, PULSE JET TYPE, WITH FABRIC FILTER A/N: C07893	C54	D53		PM: (9) [RULE 404, 2-7-1986]	D322.1, D381.2
TANK, SURGE, UNHEATED, SODIUM CARBONATE, SLURRY MIXING A/N: C07893	D55			PM: (9) [RULE 405, 2-7-1986]	D323.1
MIXER A/N: C07893	D56			PM: (9) [RULE 405, 2-7-1986]	D323.1

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

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FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 2: BULK MATERIAL HANDLING AND PROCESSING					
System 3: WASTE DUST HANDLING SYSTEM					
CONVEYOR, SCREW, MAIN TRUNK NO. 1, BAGHOUSE DUST, RETURN TO REVERB A/N:	D58			LEAD: (10) [40CFR 63 Subpart X, 1-3-2014]; PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, SCREW, PLENUM 3A, BAGHOUSE DUST, RETURN TO REVERB A/N:	D59			LEAD: (10) [40CFR 63 Subpart X, 1-3-2014]; PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, SCREW, PLENUM 3B, BAGHOUSE DUST, RETURN TO REVERB A/N:	D60			LEAD: (10) [40CFR 63 Subpart X, 1-3-2014]; PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, SCREW, TRUNK BRANCH TO REVERB PROCESS APC, BAGHOUSE DUST, RETURN TO REVERB A/N:	D61	C39		LEAD: (10) [40CFR 63 Subpart X, 1-3-2014]; PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, SCREW, BAGHOUSE DUST A/N:	D62			LEAD: (10) [40CFR 63 Subpart X, 1-3-2014]; PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, SCREW, BAGHOUSE DUST A/N:	D63			LEAD: (10) [40CFR 63 Subpart X, 1-3-2014]; PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, SCREW, MAIN TRUNK NO. 2, BAGHOUSE DUST, RETURN TO REVERB A/N:	D64			LEAD: (10) [40CFR 63 Subpart X, 1-3-2014]; PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, SCREW, BAGHOUSE DUST A/N: 282721	D65			LEAD: (10) [40CFR 63 Subpart X, 1-3-2014]; PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, SCREW, BAGHOUSE DUST A/N: 282721	D66			LEAD: (10) [40CFR 63 Subpart X, 1-3-2014]; PM: (9) [RULE 405, 2-7-1986]	D323.1

- * (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

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FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 2: BULK MATERIAL HANDLING AND PROCESSING					
CONVEYOR, SCREW, BAGHOUSE DUST A/N:	D68			LEAD: (10) [40CFR 63 Subpart X, 1-3-2014]; PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, SCREW, BAGHOUSE DUST A/N:	D69			LEAD: (10) [40CFR 63 Subpart X, 1-3-2014]; PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, SCREW, BAGHOUSE DUST A/N:	D70			LEAD: (10) [40CFR 63 Subpart X, 1-3-2014]; PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, SCREW, BAGHOUSE DUST A/N:	D71			LEAD: (10) [40CFR 63 Subpart X, 1-3-2014]; PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, SCREW, BAGHOUSE DUST A/N:	D72			LEAD: (10) [40CFR 63 Subpart X, 1-3-2014]; PM: (9) [RULE 405, 2-7-1986]	D323.1
BUCKET ELEVATOR, BAGHOUSE DUST A/N:	D73			LEAD: (10) [40CFR 63 Subpart X, 1-3-2014]; PM: (9) [RULE 405, 2-7-1986]	D323.1
Process 3: FUEL STORAGE AND DISPENSING					
System 1: FUEL STORAGE AND DISPENSING SYSTEM					
STORAGE TANK, FIXED ROOF, WASTE OIL, 275 GALS A/N: INACTIVE	D79				
Process 4: ELECTRIC POWER GENERATION EQUIPMENT					
System 1: EMERGENCY ELECTRICAL POWER SYSTEM					
INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, DIESEL FUEL, CUMMINS, MODEL LTA10-G1, WITH AFTERCOOLER, TURBOCHARGER, 380 HP WITH A/N: 479286 GENERATOR	D83	D171	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	HAP: (10) [40CFR 63SubpartZZZZ, 3-9-2011]; PM: (9) [RULE 404, 2-7-1986]	C1.1, C1.14, D12.2, H23.2, K67.3

* (1) (1A) (1B) Denotes RECLAIM emission factor (2) (2A) (2B) Denotes RECLAIM emission rate
 (3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
 (5) (5A) (5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (9) See App B for Emission Limits (10) See section J for NESHAP/MACT requirements
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 4: ELECTRIC POWER GENERATION EQUIPMENT					
FILTER, DIESEL PARTICULATE, RYPOS, MODEL RA-40X-L-C A/N: 479286	D171	D83 B138			
INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, DIESEL FUEL, CUMMINS, MODEL KTA 19-G4, WITH AFTERCOOLER, TURBOCHARGER, 755 HP WITH A/N: 479287 GENERATOR	D92	D172	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	HAP: (10) [40CFR 63SubpartZZZZ, 3-9-2011]; PM: (9) [RULE 404, 2-7-1986]	C1.1, C1.14, D12.2, H23.2, K67.3
FILTER, DIESEL PARTICULATE, RYPOS, MODEL RA-40X-L-C A/N: 479287	D172	D92 B138			

* (1) (1A) (1B) Denotes RECLAIM emission factor (2) (2A) (2B) Denotes RECLAIM emission rate
 (3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
 (5) (5A) (5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (9) See App B for Emission Limits (10) See section J for NESHAP/MACT requirements
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 4: ELECTRIC POWER GENERATION EQUIPMENT					
INTERNAL COMBUSTION ENGINE, RICH BURN, SPARK IGNITION, 12 CYLINDERS, 28 LITERS, NATURAL GAS, CUMMINS, MODEL GTA 28, WITH A/F RATIO CONTROL, WITH CATALYTIC AFTERBURNER, AFTERCOOLER, TURBOCHARGER, 701 HP WITH A/N: 604170	D176	C178	NOX: PROCESS UNIT**	CO: 2 GRAM/BHP-HR NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]; CO: 4 GRAM/BHP-HR NATURAL GAS (8) [40CFR 60 Subpart JJJJ, 8-30-2016]; NOX: 1.5 GRAM/BHP-HR NATURAL GAS (4) [RULE 2005, 12-4-2015]; NOX: 2 GRAM/BHP-HR NATURAL GAS (8) [40CFR 60 Subpart JJJJ, 8-30-2016]; NOX: 448 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-6-2005; RULE 2012, 2-5-2016]; PM: (9) [RULE 404, 2-7-1986]; ROG: 1 GRAM/BHP-HR NATURAL GAS (8) [40CFR 60 Subpart JJJJ, 8-30-2016]; ROG: 1 GRAM/BHP-HR NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]	C1.18, C1.19, D12.21, E202.1, H23.4, I297.1, K67.19
GENERATOR					
NON-SELECTIVE CATALYTIC REDUCTION, JOHNSON MATHEY, MODEL NO. MW60-D-EIEO-SS-12/12-3, WITH A 3 WAY CATALYST, WITH AN AIR TO FUEL RATIO CONTROLLER, GILL, MODEL NO. 1495-00-26, WITH CATALYTIC REDUCTION A/N: 604170	C178	D176			

* (1) (1A) (1B) Denotes RECLAIM emission factor (2) (2A) (2B) Denotes RECLAIM emission rate
 (3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
 (5) (5A) (5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (9) See App B for Emission Limits (10) See section J for NESHAP/MACT requirements
 ** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 4: ELECTRIC POWER GENERATION EQUIPMENT					
INTERNAL COMBUSTION ENGINE, RICH BURN, SPARK IGNITION, 16 CYLINDERS, 50 LITERS, NATURAL GAS, CUMMINS, MODEL GTA 50E, WITH A/F RATIO CONTROL, WITH CATALYTIC AFTERBURNER, AFTERCOOLER, TURBOCHARGER, 1135 HP WITH A/N: 604171	D179	C181	NOX: PROCESS UNIT**	CO: 2 GRAM/BHP-HR NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]; CO: 4 GRAM/BHP-HR NATURAL GAS (8) [40CFR 60 Subpart JJJJ, 8-30-2016]; NOX: 1.5 GRAM/BHP-HR NATURAL GAS (4) [RULE 2005, 12-4-2015]; NOX: 2 GRAM/BHP-HR NATURAL GAS (8) [40CFR 60 Subpart JJJJ, 8-30-2016]; NOX: 448 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-6-2005; RULE 2012, 2-5-2016]; PM: (9) [RULE 404, 2-7-1986]; ROG: 1 GRAM/BHP-HR NATURAL GAS (8) [40CFR 60 Subpart JJJJ, 8-30-2016]; ROG: 1 GRAM/BHP-HR NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]	C1.18, C1.19, D12.21, E202.1, H23.4, I297.2, K67.19
GENERATOR					
NON-SELECTIVE CATALYTIC REDUCTION, INTEGRAL, WITH A 3 WAY CATALYST, CUMMINS, PART NO. 5377465, WITH AN INTEGRAL CUMMINS AIR TO FUEL RATIO CONTROLLER, WITH CATALYTIC REDUCTION A/N: 604171	C181	D179			
System 2: NON-EMERGENCY ELECTRICAL POWER SYSTEM					

* (1) (1A) (1B) Denotes RECLAIM emission factor (2) (2A) (2B) Denotes RECLAIM emission rate
 (3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
 (5) (5A) (5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (9) See App B for Emission Limits (10) See section J for NESHAP/MACT requirements
 ** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 4: ELECTRIC POWER GENERATION EQUIPMENT					
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 A/N: 468847	D165	C166	NOX: LARGE SOURCE**	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]	C1.16, C1.17, C10.1, D12.18, D12.19, D12.20, E71.3, E71.4, E71.5, E115.1, E193.3, H23.3, K67.18
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	C166	D165			
Process 6: SUPPLEMENTARY PROCESS APCS					
System 1: WET ELECTROSTATIC PRECIPITATOR					
MANIFOLD, WESP INLET A/N:	B138	D16 D17 D18 D19 D20 C21 C40 C89 D99 D100 C139 C143 C147 C151 C155 D171 D172 C174			E448.4

* (1) (1A) (1B) Denotes RECLAIM emission factor (2) (2A) (2B) Denotes RECLAIM emission rate
 (3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
 (5) (5A) (5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (9) See App B for Emission Limits (10) See section J for NESHAP/MACT requirements
 ** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 6: SUPPLEMENTARY PROCESS APCS					
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 E175			
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
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

- * (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 D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 6: SUPPLEMENTARY PROCESS APCS					
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 E175			
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
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 E175			

- * (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 D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 6: SUPPLEMENTARY PROCESS APCS					
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
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 E175			
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

- * (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 D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 6: SUPPLEMENTARY PROCESS APCS					
MIST ELIMINATOR, , ENVITECH, SERVING WESP UNIT NO. 4, WAVE FORM BAFFLE TYPE A/N:	C154	C153 S159			D12.17
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 E175			
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 (2) (2A) (2B) Denotes RECLAIM emission rate
 (3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
 (5) (5A) (5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (9) See App B for Emission Limits (10) See section J for NESHAP/MACT requirements
 ** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 6: SUPPLEMENTARY PROCESS APCS					
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, D82.1, D182.4, D182.5, D182.6, D182.7, D182.12, D182.13, D323.1, E448.1, E448.2, E448.4, E448.6
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			
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	E175	B140 B144 B148 B152 B156			
System 2: REGENERATIVE THERMAL OXIDIZER					

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

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

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 6: SUPPLEMENTARY PROCESS APCS					
OXIDIZER, HOT ROCK, REGENERATIVE, ADWEST TECH., MODEL RETOX 27.5T095, 11FT W. X 38FT-10IN L X 12FT-1 IN. H, NATURAL GAS, WITH A MAXON MODEL KENEMAX 6G BURNER AND A 100-H.P. EXHAUST BLOWER, 8.58 MMBTU/HR WITH A/N:	C161	C35 C173 C182	NOX: MAJOR SOURCE**		C8.7, D182.5, D182.6, D182.7, D323.1, E440.1, K67.16, K67.21
FLOW CHAMBER, RTO PUFF BOX, ADWEST TECH, 11 FT. W X 15 FT.-10 IN. L. X 10 FT.-10 IN. H.	C173	C161 C174			
TOWER, QUENCH WATER SPRAY, RTO EXHAUST GAS, HEIGHT: 18 FT 3 IN; DIAMETER: 7 FT 11 IN	C174	B138 C173			

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

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

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: 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 D: DEVICE ID INDEX**

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D1	1	1	1
C2	4	1	1
D3	4	1	2
D5	5	1	2
D6	5	1	2
D7	5	1	2
D8	6	1	3
D9	6	1	3
D10	6	1	3
D11	6	1	3
D13	6	1	3
D16	8	1	5
D17	8	1	5
D18	8	1	5
D19	8	1	5
D20	8	1	5
C21	9	1	5
D22	9	1	5
D23	9	1	5
D25	9	1	6
C26	10	1	6
C27	10	1	6
C28	10	1	6
C29	10	1	6
C30	10	1	6
C31	11	1	6
C32	11	1	6
C33	11	1	6
C34	11	1	6
C35	13	1	7
C37	13	1	8
C38	13	1	8
C39	14	1	8
C40	15	1	8
D53	15	2	2

**FACILITY PERMIT TO OPERATE
 QUEMETCO INC
 SECTION D: DEVICE ID INDEX**

Device Index For Section D			
Device ID	Section D Page No.	Process	System
C54	15	2	2
D55	15	2	2
D56	15	2	2
D58	16	2	3
D59	16	2	3
D60	16	2	3
D61	16	2	3
D62	16	2	3
D63	16	2	3
D64	16	2	3
D65	16	2	3
D66	16	2	3
D68	17	2	3
D69	17	2	3
D70	17	2	3
D71	17	2	3
D72	17	2	3
D73	17	2	3
D74	15	2	1
D75	15	2	1
D76	15	2	1
D79	17	3	1
D83	17	4	1
D84	7	1	4
D85	7	1	4
D86	7	1	4
C88	7	1	4
C89	7	1	4
D92	18	4	1
D98	6	1	3
D99	9	1	5
D100	9	1	5
B102	14	1	8
B103	14	1	8
C104	14	1	8

**FACILITY PERMIT TO OPERATE
 QUEMETCO INC
 SECTION D: DEVICE ID INDEX**

Device Index For Section D			
Device ID	Section D Page No.	Process	System
C105	14	1	8
C107	14	1	8
C108	14	1	8
C109	4	1	1
D110	6	1	3
D112	1	1	1
D113	1	1	1
D115	1	1	1
D116	1	1	1
D117	1	1	1
D118	1	1	1
D119	2	1	1
D120	2	1	1
D121	2	1	1
D122	2	1	1
D123	2	1	1
D124	2	1	1
D126	3	1	1
D127	3	1	1
D128	3	1	1
D129	3	1	1
D130	3	1	1
D131	3	1	1
D132	3	1	1
D133	3	1	1
D134	3	1	1
D135	3	1	1
D136	4	1	1
D137	4	1	1
B138	21	6	1
C139	22	6	1
B140	22	6	1
C141	22	6	1
C142	22	6	1
C143	22	6	1

**FACILITY PERMIT TO OPERATE
 QUEMETCO INC
 SECTION D: DEVICE ID INDEX**

Device Index For Section D			
Device ID	Section D Page No.	Process	System
B144	23	6	1
C145	23	6	1
C146	23	6	1
C147	23	6	1
B148	23	6	1
C149	24	6	1
C150	24	6	1
C151	24	6	1
B152	24	6	1
C153	24	6	1
C154	25	6	1
C155	25	6	1
B156	25	6	1
C157	25	6	1
C158	25	6	1
S159	26	6	1
E160	26	6	1
C161	27	6	2
S164	9	1	5
D165	21	4	2
C166	21	4	2
C168	12	1	6
C169	13	1	6
C170	12	1	6
D171	18	4	1
D172	18	4	1
C173	27	6	2
C174	27	6	2
E175	26	6	1
D176	19	4	1
C178	19	4	1
D179	20	4	1
C181	20	4	1
D197	2	1	1
D198	2	1	1

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

FACILITY CONDITIONS

- F5.1 The following conditions shall apply to operations with lead containing materials and housekeeping practices for fugitive lead-dust emissions at this facility:

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

For the purposes of this facility permit, a Compliance Day shall be defined to start at Noon (1200 hours) the day of the Compliance Day and ends at Noon (1159 hours) the following day (Noon-to-Noon).

The Compliance Day may, upon written notification to the South Coast AQMD in a manner approved in writing by the South Coast AQMD, be temporarily transitioned from the Noon-to-Noon Compliance Day to another defined 24-hour consecutive period ("Source Test Compliance Day") for the purposes of source testing.

This notification shall include, at minimum, a schedule detailing when the transition to the Source Test Compliance Day will occur and the expected duration/end date when the facility expects to transition back to the Noon-to-Noon Compliance Day.

The Compliance Day may, upon written notification to the South Coast AQMD in a manner approved in writing by the South Coast AQMD, be temporarily transitioned to another defined 24-hour consecutive period ("Alternate Compliance Day") for purposes other than source testing.

The notification to transition to an Alternate Compliance Day shall include, at minimum, the reason for transitioning to the Alternate Compliance Day, a schedule detailing when the transition to the Alternate Compliance Day will occur and the expected duration/end date when the facility expects to transition back to the Noon-to-Noon Compliance Day.

Written notification to the South Coast AQMD in a manner approved in writing by South Coast AQMD shall be provided when the facility transitions back to the Noon-to-Noon Compliance Day within 24 hours of the transition.

Under no circumstances shall the process weight throughput limit, as specified in Condition No. C1.7, be exceeded in any 24-hour period prior to, during, and after, the transition to either the Source Test or Alternate Compliance Day or vice versa.

[RULE 204, 10-8-1993]

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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, 1-3-2014**]

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

Rule 1420.1

A. The total facility mass lead emissions from all lead point sources shall not exceed 0.003 pounds of lead per hour.

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

[**RULE 1420.1, 11-5-2010; RULE 1420.1, 9-4-2015**]

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

SYSTEM CONDITIONS

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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:

The daily, month-to-date (MTD) and quarter-to-date (QTD) total amounts of raw lead metal produced, battery metal units (BMU) processed and plastic shipped offsite shall be recorded in the daily City of Industry (COI) Plant Activity Report (PAR). For the purpose of this condition, BMU shall be defined as the total elemental lead weight contained in starter, lighting, and ignition (SLI) plastic cased batteries processed at this facility.

The operator shall calculate the plastic to lead metal ratios using the total amounts of plastic shipped offsite and processed BMU in the final end of the calendar month PAR reports. The plastic to lead metal ratios, for the previous calendar month, and for the previous calendar quarter, shall be reported in the PAR for this facility.

The final end of the calendar month and calendar quarter amounts of plastic and BMU shall be based on bills of lading and/or other equivalent shipment records or manifests documenting total weight of plastic shipped offsite and the total weight of batteries processed at this facility, and the raw lead metal produced shall be based on the total number and weights of raw lead bullion molds/ingots cast and recorded in the PAR.

For each calendar quarter, the ending ratio of the total amount of separated plastic shipped offsite in that quarter to the total amount of BMU processed in that quarter shall be 0.05 or greater.

For each calendar quarter, the operator shall also calculate the percent by weight of BMU to the raw lead metal produced at this facility according to the following formula:

BMU Percent = $(\text{BMU} \times 100) / L$ where: L = total weight of raw lead produced in the reverberatory and lead slag furnaces each quarter, and BMU = total weight of elemental lead contained in SLI batteries processed each quarter.

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Whenever quarterly BMU Percent is less than 80, the operator shall record in the PAR the pounds of elemental lead metal equivalent from SLI batteries processed that quarter and the pounds of lead metal equivalent from non-SLI batteries (excluding lead scrap) processed that quarter at this facility on an elemental lead weight basis.

[RULE 204, 10-8-1993]

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

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

S53.2 The following conditions shall apply to the equipment in this system:

The operator shall perform a weekly visible emissions inspection of the WESP pursuant to applicable requirements of Rule 1155(e)(1).

The operator shall maintain records in a manner approved by the South Coast AQMD, to demonstrate compliance with Rule 1155, which shall be maintained at the facility for a minimum of five years and shall be made available to South Coast AQMD personnel immediately upon request.

For the purposes of paragraph (e)(1) of the rule, the records shall include, but may not be limited to:

1. Facility name;
2. Observer's name and affiliation;
3. Date and time of observation;
4. Process unit(s) being observed;
5. Observer's position relative to the source;
6. Observation duration;
7. Whether visible emissions occurred and cumulative amount of time visible emission occurred; and
8. If visible emissions were observed, the corrective actions taken to correct the problem causing them, including and up to date and time of equipment shutdown, if applicable.

[RULE 1155, 5-2-2014]

[Systems subject to this condition : Process 6, System 1]

DEVICE CONDITIONS

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

A. Emission Limits

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

The above emission limits shall be in effect at all times.

[**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 : D3, 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

The above emission limits shall be in effect at all times.

[**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 D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[Devices subject to this condition : D8, C40]

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

CONTAMINANT	EMISSIONS LIMIT
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

The above emission limits shall be in effect at all times.

[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 : D84, 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, C21, D99, D100]

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

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

The above emission limits shall be in effect at all times.

[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

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

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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**]

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

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

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

aluminum oxide and carbonate

calcined and/or non-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]

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[Devices subject to this condition : D84]

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

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

aluminum oxide and carbonate

battery crusher material

calcined and/or non-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

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

sodium borate

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]

B295.3 For the purpose of NOX RECLAIM emission factor, the material shall be defined as total material charged to the reverberatory furnace.

[RULE 2012, 5-6-2005]

[Devices subject to this condition : D84]

B295.4 For the purpose of SOX RECLAIM emission factor, the material shall be defined as total material charged to the reverberatory furnace.

[RULE 2011, 5-6-2005]

[Devices subject to this condition : D84]

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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 : D83, D92]

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]

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]

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

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

C1.7 The operator shall limit the material processed to no more than 750 ton(s) in any one day.

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

For the purpose of this condition, a day shall be defined as a Compliance Day.

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.

For the purpose of this condition, flue gas dust and baghouse dust shall be defined as lead-containing dust that is generated as a result of all materials charged to the reverberatory furnace and of all materials charged to the electric arc and refinery pot furnaces, which precipitates out of the flue gas exhaust stream within the flue gas ducts upstream of or is collected on filter bags in the primary baghouses (device IDs C35 or C182, C40, C89, and C21) and is subsequently recycled back to the rotary dryer or reverberatory furnace in enclosed conveyors.

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 South Coast AQMD under Application No. 442948 unless otherwise specified below.
2. Except for calcined and/or non-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 and/or non-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

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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 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 South Coast 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

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

writing by the South Coast 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 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.

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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 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 South Coast 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 South Coast 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.

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

24. Each report required by subpart 23 of these conditions shall be submitted to the South Coast AQMD's Compliance & Enforcement 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.

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 South Coast AQMD 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 750,000 lb(s) in any one month.

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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 combined, total amount of calcined and/or non-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 and/or non-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]

- 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]

- C1.13 The operator shall limit the material processed to no more than 750,000 lb(s) in any one month.

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

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

[Devices subject to this condition : D84]

C1.14 The operator shall limit the maintenance testing to no more than 0.5 hour(s) per week.

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

[Devices subject to this condition : D83, D92]

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 hour(s) in any one 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]

C1.18 The operator shall limit the operating time to no more than 200 hours in any one year.

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

[Devices subject to this condition : D176, D179]

- C1.19 The operator shall limit the maintenance and testing to no more than 50 hour(s) in any one year.

Operation of the engine beyond 50 hours per year allotted for maintenance and testing shall be allowed only during emergencies resulting in an interruption of service of the primary power supply or during stage ii or iii electrical emergencies declared by the electrical grid operator. This engine may be used as part of an interruptible electric service program..

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

[Devices subject to this condition : D176, D179]

- 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.

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

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.

[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.

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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]

[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 450 Deg F.

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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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 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"..

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

[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]

- C8.1 The operator shall use this equipment in such a manner that the pH being monitored, as indicated below, is not less than 8.0 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 tanks serving the scrubber.

Each pH meter shall be equipped with a chart recorder to continuously monitor and record the pH in the recirculation tanks serving the scrubber on a 15-minute averaging basis.

[RULE 2005, 12-4-2015]

[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 8.0 of the pH scale.

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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) pH meter to accurately indicate the pH in the recirculation tanks serving the scrubber.

Each pH meter shall be equipped with a chart recorder to continuously monitor and record the pH in the recirculation tanks serving the scrubber on a 15-minute averaging basis.

[RULE 2005, 12-4-2015]

[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, 5-6-2005]

[Devices subject to this condition : C89]

- 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, 5-6-2005]

[Devices subject to this condition : C40]

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

- 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 on a 15-minute averaging basis.

For the purpose of this condition, the monitored pH limit shall not apply to 15-minute intervals during which a wash down cycle of the WESP cell is in effect.

[RULE 2005, 12-4-2015; RULE 2011, 2-5-2016]

[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]

- 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.

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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 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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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[Devices subject to this condition : D3]

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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C39, C88, C168, C170]

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 : D83, D92]

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**; **40CFR 63 Subpart X, 1-3-2014**; **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 204, 10-8-1993**]

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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[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**]

[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, 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**]

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[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, 1-3-2014]

[Devices subject to this condition : C26, C27, C28, C29, C30, C31, C32, C33, C34, C168, C170]

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]

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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.

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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

1. The Wet Electrostatic Precipitator (WESP) power supply shall be equipped with a chart recorder which continuously records the direct current voltage output to each WESP device, in kilovolts.
2. Unless otherwise approved in writing by the South Coast AQMD, the electric field voltage in each WESP cell shall not be less than 27 kilovolts, based on a 15 minute average basis. Subsequent to each performance source test, the electric field voltage in each WESP cell shall not be less than 10 percent of the field voltage set point demonstrated, and in effect, during the most recent performance source test, during any one test run.
3. The voltage set points shall be uniform for all WESP cells operated during the performance source test(s) used as the basis for Subpart 2 of this condition.
4. For the purpose of Subpart 2 of this condition, the 15 minute average electric field voltage shall only apply to fully operational WESP cells. It shall not apply to 15 minute intervals during which a wash down cycle of the WESP cell is in effect and/or to WESP cells which are not in operation.
5. The operator shall determine the average, daily cell voltage for each WESP cell each day, whether in operation or not, including periods of WESP cell wash down cycles, and record these values each calendar day in a daily WESP log.
6. The operator shall compute the system wide average daily WESP cell voltage each day by adding the average daily voltages for each of the 5 WESP cells, whether in operation or not, and dividing the grand total of the voltages by 5. The grand total system wide average voltage calculated according to this condition shall not be less than 21.6 kilovolts on an average daily basis. This grand total average shall also be recorded in the daily WESP log.
7. The numerical averages calculated in Subparts 4 and 5 of this condition shall not apply to chronological periods when ALL process equipment vented by the WESP is shut down for maintenance, when the WESP is shut down for maintenance, and during breakdown events addressed by Subparts 8, 9, and 10 of this condition.

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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

8. Failure to maintain the minimum WESP cell average voltages required by this condition shall constitute a deviation, except for chronological periods of equipment maintenance defined in Subpart 7 of this condition.

9. 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.

10. All deviations shall be reported to the South Coast AQMD on a semi-annual basis pursuant to the requirements specified in 40 CFR Part 64.9 and Condition Nos. 22 and 23 in Section K of this permit.

11. The operator may request to operate at a lower 15-minute average electric field voltage setpoint and associated minimum system wide average daily WESP cell voltage upon submittal and approval of an application for change of operation condition. The application shall contain information demonstrating that all emission and requirements are achievable at the proposed lower electric field voltage setpoint.

Such information shall include, but may not be limited to, manufacturer's emission guarantees, design specifications, proposed electric field voltage, particulate distribution, and control efficiency. Any proposed electric field voltage shall demonstrate and quantify, via a source test using approved South Coast AQMD methods and procedures and with a South Coast AQMD approved source test protocol, a minimum control efficiency of 92% for PM and 98% control efficiency for Arsenic and Lead.

12. The operator shall submit a pre-test protocol to South Coast AQMD for approval at least 60 days prior to conducting the source test specified in Subpart 11.

13. The operator shall notify the South Coast AQMD in writing at least 10 days prior to testing as specified in Subpart 11 so that a South Coast AQMD observer may be present during the tests. The operator shall notify the South Coast AQMD in writing one week prior to conducting the source test specified in Subpart 11.

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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

14. A source test conducted pursuant to Subpart 11 of this Condition indicating that the control efficiency specification of the same subpart is not achieved at the proposed voltage setpoint may not be considered or constitute a violation of the specified control efficiencies in Subpart 11.

However, Condition No. 3 of Section E of the facility permit shall not be violated at any time. Additionally, except during the source test specified in Subpart 11 of this Condition, the voltage limits of Subparts 2 and 6 shall remain in effect at all times.

[RULE 1401, 3-4-2005; RULE 1402, 10-7-2016]

[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 at the exhaust outlet of the Wet Electrostatic Precipitator.

The flow meter shall be equipped with a chart recorder which continuously records the flow rate, in cubic feet per minute.

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

[RULE 1401, 3-4-2005; RULE 1402, 10-7-2016; **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**]

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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[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.

[RULE 1110.2, 6-3-2005]

[Devices subject to this condition : D165]

D12.21 The operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the engine.

[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 2012, 5-6-2005]

[Devices subject to this condition : D176, D179]

D82.1 The operator shall install and maintain a CEMS to measure the following parameters:

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

- A. CO concentration in ppmvd (15-minute average) on a continuous basis.
- B. The CEMS shall convert the actual CO concentrations to mass emission rates (lb/hr) and record the hourly emission rates on a continuous basis.
- C. The CEMS shall record the cumulative daily and daily total CO emissions on a continuous basis. For the purposes of this condition, a day is defined to be a Compliance Day as defined in Condition F5.1.
- D. The operator shall transmit hourly data of the WESP CO CEMS on a daily basis. The data shall be transmitted within 24 hours of the last data point collected for the previous Compliance Day and shall be supplied in ASCII text comma delimited format.
- E. The daily CO emission limit as specified in Condition No. A63.6 shall not be exceeded. When the cumulative daily CO emissions reach or exceed 90% of the CO emission limit (207 lb/day) as specified in Condition No. A63.6, written notification shall be provided to South Coast AQMD within 24 hours.
- F. The CO CEMS shall be installed and certified within 180 days of the granting of this permit. In the event that the CO CEMS is not certified within 180 days; source testing for CO, with a South Coast AQMD approved source test protocol, shall be conducted as follows:
 - 1. Written notice shall be provided to the South Coast AQMD at least 30 days prior to the end of the 180 day deadline specified in Subpart F of this condition of the status of the CO CEMS project, the reasons why the that the CO CEMS project is not able to be certified within the 180 day period, the anticipated certification schedule/time for the CO CEMS, and the anticipated date for the initial quarterly source test for CO.
 - 2. The test shall be conducted when the equipment is operating under maximum operating conditions to verify compliance with Condition No. A63.6.
 - 3. Written notice shall be provided to the South Coast AQMD at least 10 days prior

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

to testing so that a South Coast AQMD observer may be present during the tests.

4. The source tests shall be performed by a qualified testing laboratory and conducted in accordance with South Coast AQMD approved methods and procedures.

5. Sampling facilities shall comply with the South Coast AQMD "Guidelines for the Construction of Sampling and Testing Facilities," pursuant to Rule 217.

G. Subsequent ongoing source testing shall be conducted, at minimum on a quarterly basis for CO, no later than the end of the calendar month of the previous or initial source test for CO, until the CO CEMS is certified.

H. For the purposes of this condition, data from the CO CEMS may be considered valid quality assured data at the hour of successful completion of a calibration error test and prior to approval of final CEMS certification by South Coast AQMD pursuant to Rule 218.2(f)(11). All required certification tests shall be completed no more than 14 days following successful completion of the calibration error test.

The quarterly source testing requirement under Subpart F of this condition shall not be triggered if data from the CO CEMS is recording valid quality assured data.

1. Written notification shall be provided to the South Coast AQMD no later than 14 days before the certification test(s) is conducted pursuant to Rule 218.2(f)(6)(C)(i).

2. Written notification shall be provided within 24 hours of successful completion of the calibration error test described in Subpart H of this condition.

3. Test reports shall be submitted no later than 45 days of completion a certification test.

I. If the final CEMS certification is disapproved by South Coast AQMD, the valid emission data pursuant to Rule 218.2(f)(11)(A) and Subpart H of this condition shall be retroactively considered invalid data and the operator shall revert to the quarterly

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

source testing requirements specified in Subparts F and G of this condition.

Source testing for CO shall be subsequently within 14 days following the notice of disapproval of the final CEMS certification if a CO source test required by this condition has not been conducted.

[RULE 204, 10-8-1993; RULE 218, 5-14-1999; RULE 218, 3-5-2021; RULE 218.1, 5-14-1999; RULE 218.1, 5-4-2012; RULE 218.2, 3-5-2021; RULE 218.3, 3-5-2021; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : S159]

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

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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

A. The operator shall demonstrate compliance with all applicable ROG, CO, PM, PM10, lead and visible emission limits by conducting a source test, using approved South Coast AQMD methods and procedures, in accordance to the following testing frequencies:

1. Lead, Arsenic, 1,3-Butadiene, and Benzene at least once every 12 months (annually), at the WESP outlet, pursuant to Rule 1420.1(k) and 40 CFR 63 Subpart X;

2. ROG, CO, PM10, and visible emission limits at least once every 36 months (3 calendar years), at WESP outlet, following the previous source test at this emission point;

3. ROG, CO, PM10 at least once every 60 months (5 calendar years), at RTO Outlet, Reverberatory Furnace Process APCS outlet, and electric slag furnace APCS outlet, following the previous source test at these emission points; and

4. THC @ 4% CO₂ at least once every 12 months (annually) at the Reverberatory Furnace Process APCS outlet and electric slag furnace APCS outlet, following the previous compliance test; and

5. Dioxins/Furans @ 7% O₂ at least once every 72 months (6 calendar years) at the Reverberatory Furnace Process APCS outlet and electric slag furnace APCS outlet, following the previous compliance test.

B. The test shall be conducted when the equipment is operating under normal conditions (a minimum of 80% of the permitted process weight throughput capacity) 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. Process or parametric data, including but not limited to the following items, shall be provided with the report:

Process weight throughput data from Loadrite weighing system, rotary dryer

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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

temperature, NO_x & SO_x CEMS data, battery wrecker process data, quantity of calcined and/or non-calcined carbon coke charged to the reverberatory and/or electric arc furnace, field voltage in each WESP cell, the total number of cells in operation, each WESP scrubber recirculation flow rate, and pH & metals content of WESP scrubber solution (shall include but may not be limited to arsenic, lead, nickel, cadmium).

E. Written results shall be submitted to the South Coast AQMD within 90 days after testing.

[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, 1-3-2014; 40CFR Part 64, 10-22-1997]

[Devices subject to this condition : D3, D8, C35, C40, D84, C89, S159]

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

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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

A. 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.

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

C. Written notice shall be provided to the South Coast AQMD at least 10 days prior to testing so that a South Coast AQMD observer may be present during the tests.

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

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

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

[RULE 1401, 3-4-2005; RULE 1402, 10-7-2016]

[Devices subject to this condition : S159, C161]

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

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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

1,2-Dibromoethane
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)

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Polychlorinated Biphenyls (PCB's)

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 D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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]

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[Devices subject to this condition : S159, C161]

D182.12The operator shall test this equipment in accordance with the following specifications:

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

- A. The operator shall demonstrate compliance with all applicable VOC, CO, PM, PM10, lead, arsenic, benzene, 1,3-butadiene, and visible emission limits by conducting an initial source test within 180 days following the processed material throughput increase to 750 TPD, from 600 TPD, using approved South Coast AQMD methods. The operator shall additionally test for PAHs (Polycyclic Aromatic Hydrocarbons).
- B. The operator shall notify in a manner approved in writing by the South Coast AQMD of the date the facility has received a determination from DTSC regarding the processed material throughput increase and the date the facility intends to increase the processed material throughput greater than 600 TPD.
- C. The operator shall submit a pre-test protocol to South Coast AQMD for approval at least 60 days prior to conducting the source test.
- D. The operator shall notify the South Coast AQMD in writing at least 10 days prior to testing so that a South Coast AQMD observer may be present during the tests.
- E. The test shall be conducted when the equipment is operating under normal conditions (a minimum of 80% of the permitted process weight throughput capacity) to demonstrate compliance with all applicable emission limits while the dryer is operating at the maximum achievable exhaust temperature and maximum achievable process weight throughput. The test shall additionally be conducted at the following test points:
1. RTO outlet
 2. Reverberatory furnace process APC outlet
 3. Electric arc furnace process APC outlet
 4. Refinery baghouse outlet
 5. WESP outlet

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

F. The test(s) shall be conducted under the following scenarios:

1. Calcined carbon coke fed to both reverberatory and electric arc furnaces.
2. Calcined carbon coke fed to reverberatory furnace; non-calcined carbon coke to electric arc furnace.
3. Non-calcined carbon coke fed to reverberatory furnace; calcined carbon coke to electric arc furnace.
4. Non-calcined carbon coke fed to both reverberatory and electric arc furnaces.

G. Process or parametric data, including but not limited to the following items, shall be provided with the source test report:

Process weight throughput data from the Loadrite weighing system, rotary dryer temperature, NO_x & SO_x CEMS data, battery wrecker process data, quantity of calcined and/or non-calcined carbon coke charged to the reverberatory and/or electric arc furnace, field voltage in each WESP cell, the total number of cells in operation, each WESP scrubber recirculation flow rate, and pH & metals content of WESP scrubber solution (shall include but may not be limited to arsenic, lead, nickel, cadmium).

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

I. The deadline for this initial source test may be extended beyond 180 days following the throughput increase to 750 TPD upon written approval by the South Coast AQMD, 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.

J. Written results shall be submitted to the South Coast AQMD within 90 days after testing.

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; 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, 1-3-2014]

[Devices subject to this condition : D3, D8, C35, C40, D84, C89, S159]

D182.13The operator shall test this equipment in accordance with the following specifications:

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

A. The operator shall conduct a source test to demonstrate compliance with the applicable SO₂ emission limits and to determine the emission rate and control efficiency of SO₂, using approved South Coast AQMD methods.

B. The operator shall submit a pre-test protocol to South Coast AQMD for approval at least 60 days prior to conducting the source test.

C. Written notice shall be provided to the South Coast AQMD at least 10 days prior to testing so that a South Coast AQMD observer may be present during the tests.

D. The test shall be conducted when the equipment is operating under normal conditions (a minimum of 80% of the permitted process weight throughput capacity) to demonstrate compliance with all applicable emission limits while the dryer is operating at the maximum achievable exhaust temperature and maximum achievable process weight throughput. The test shall be conducted at the following test points:

1. Reverberatory furnace process APC inlet and outlet
2. Electric arc furnace process APC inlet and outlet

The test shall be conducted initially at a pH of 8.9 and 9.4 for Device IDs C40 and C89 respectively, then at 8.0 in accordance with approved test methods and procedures pursuant to a valid South Coast AQMD approved source test protocol.

E. The operator may conduct tests incrementally at lower pH levels and at the WESP inlet and outlet, as detailed in the approved source test protocol, to determine the emission rate and control efficiency of SO₂ at Devices C40 and C89 and of WESP.

F. Process or parametric data, including but not limited to, Loadrite process weight throughput data, NO_x and SO_x CEMS data, battery wrecker process data, quantity of calcined and/or petroleum carbon coke charged to the reverberatory and/or electric arc furnace, field voltage in each WESP cell, the total number of cells in operation, each SO₂ scrubber recirculation flow rate and pH, each WESP scrubber recirculation flow rate and pH, shall be provided with the source test report.

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

H. Written results shall be submitted to the South Coast AQMD within 90 days after testing.

[RULE 2011, 2-5-2016; RULE 204, 10-8-1993]

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

D322.1 The operator shall perform a monthly inspection of the equipment and filter media for leaks, broken or torn filter media, and improperly installed filter media.

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

[Devices subject to this condition : C54]

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.

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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 1401, 12-7-1990**]

[Devices subject to this condition : D3]

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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.

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984; RULE 401, 11-9-2001]

[Devices subject to this condition : D1, C2, D3, D5, D6, D7, D8, D16, D17, D18, D19, D20, D22, D23, D25, C40, D53, D55, D56, D58, D59, D60, D61, D62, D63, D64, D65, D66, D68, D69, D70, D71, D72, D73, D74, D75, D84, C89, D99, D100, 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, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C39, C88, C168, C169, C170]

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

D381.2 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 an annual basis, at least, unless the equipment did not operate during the entire annual period. The routine 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, 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**]

[Devices subject to this condition : C54, D76]

E. Equipment Operation/Construction Requirements

E51.1 The following condition number(s) shall not apply if all of the requirements stated below are met:

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Condition Number C 8- 1

Condition Number C 8- 4

Requirement number 1: The SO_x CEMS on the wet electrostatic precipitator outlet is in full operation.

[RULE 2005, 5-6-2005]

[Devices subject to this condition : C40]

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]

[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]

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

- E71.1 The operator shall only operate this equipment if the concentration of oxides of nitrogen (NO_x) in the combustion exhaust gas stack does not exceed 10 PPMv NO_x at 3 percent oxygen.

[**RULE 2005, 5-6-2005; 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 (CH₄).

[**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_x) in the exhaust gas outlet does not exceed 7.3 PPMv NO_x at 15 percent oxygen.

[**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.

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[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, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C39, C88, C168, C170]

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]

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

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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 South Coast AQMD and shall make these procedures and associated records available upon request by South Coast 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 South Coast AQMD on a semi-annual basis pursuant to the requirements specified in 40 CFR Part 64.9 and Condition Nos. 22

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

and 23 in Section K of this permit. The semi-annual monitoring report shall include the total operating time of this equipment and the total accumulated duration of all deviations for each semi-annual reporting period specified in Condition No. 23 in Section K of this permit.

I. The operator shall submit an application with a Quality Improvement Plan (QIP) in accordance with 40 CFR Part 64.8 to the South Coast 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 South Coast 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 South Coast AQMD to demonstrate compliance with all applicable requirements specified in this condition and 40 CFR Part 64.9 for a minimum of five years.

[40CFR Part 64, 10-22-1997]

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

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

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

- 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]

E202.1 The operator shall clean and maintain this equipment according to the following specifications:

The engine shall not be operated without the use of an automatic air to fuel ratio controller which shall be maintained and kept in proper operating conditions at all times as specified by the manufacturer.

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

[**RULE 1303(a)(1)-BACT, 5-10-1996**; RULE 1303(a)(1)-BACT, 12-6-2002; **RULE 2005, 12-4-2015**]

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[Devices subject to this condition : D176, D179]

E440.1 The operator shall operate and maintain this equipment according to the following specifications:

For the purposes of this condition, an inspection shall be conducted at the time of each facility turnaround, reverberatory furnace rebuild, or at least semi-annual (twice per year, at 4 to 8 month intervals), whichever is more frequent.

Each inspection shall include, but is not limited to, an inspection of the poppet switch valves and associated valve components.

Components identified for replacement, repair, and/or corrective action shall be replaced and/or repaired in accordance with manufacturer's recommendations.

To comply with this condition, the operator shall maintain a written or hard copy report of each regenerative thermal oxidizer inspection in accordance with Condition No. K67.21 and 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 South Coast AQMD personnel upon request.

[RULE 204, 10-8-1993]

[Devices subject to this condition : C161]

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

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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 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 South Coast AQMD-approved tests/HRAs are performed which all verify that the MICR remains below 10 in a million.
- C. If the three South Coast AQMD-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 South Coast AQMD-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.

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

H. All written test results shall be submitted to the South Coast AQMD within 45 days after 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 South Coast AQMD 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 South Coast AQMD.

I. In addition, within 60 days after the South Coast AQMD 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 South Coast 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, 10-7-2016]

[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, C170]

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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_x 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_x emissions recorded by the pot furnace burner exhaust CEMS shall be deducted from the total facility RECLAIM NO_x emissions recorded by the WESP stack certified NO_x CEMS.
- G. When the pot furnace burner exhaust stack damper is open to the atmosphere, the RECLAIM NO_x emissions for the pot furnaces shall be reported via the certified pot furnace burner exhaust NO_x 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.

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

I. During each event of abnormal operation, as defined in this condition, and/or 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 South Coast AQMD personnel upon request. These records shall be kept onsite and shall include, but not be limited to, monitoring records of each stack damper position (open and closed), and reasons.

[RULE 1420.1, 11-5-2010; RULE 1420.1, 9-4-2015; RULE 2012, 2-5-2016; 40CFR 63 Subpart X, 1-3-2014]

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

E448.5 The operator shall comply with the following requirements:

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

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

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

1. Leeward wall inside of the total enclosure building.

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

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

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

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

E. For the purposes of this condition, the chart recorder shall continuously record, at a minimum, 1-minute data for differential pressure measurements which are to be

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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

used to calculate rolling 15-minute averages in order to determine compliance with the negative pressure requirement as specified in subpart C of this condition.

[RULE 1420.1, 11-5-2010; RULE 1420.1, 9-4-2015; RULE 204, 10-8-1993]

[Devices subject to this condition : C169]

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

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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

The operator shall maintain and operate a multi-metal Continuous Emissions Monitoring System (CEMS) at the outlet exhaust of the WESP stack. The CEMS shall comply with the following requirements:

A. ANNUALIZED ARSENIC EMISSIONS. The rolling 30-day total arsenic emissions (based on the sum total of the Wet Electrostatic Precipitator (WESP) multiple metals CEMS hourly readings) times 12.167 shall not exceed 6,500 pounds of arsenic ($365 \text{ days} / 30 \text{ days} = 12.167$). The day begins on (and includes) midnight and ends just before midnight. This shall be effective 31 days after permit issuance to allow 30 days of data collection to begin the rolling 30-day average.

B. MISSING DATA SUBSTITUTION. The operator shall use the 1N Procedures (refer to SCAQMD Rule 2011/2012, Attachment A) for missing data substitution. The operator shall identify which data hours were generated using the 1N Procedures, where references to NO_x shall be taken to mean arsenic.

C. CEMS DATA TRANSMITTAL. The operator shall transmit hourly data of the WESP multiple metals CEMS on a daily basis (23 data points per day since one hour is lost to calibration, less required maintenance and QA/QC hours). The data shall be transmitted within 24 hours of the last data point collected for the previous reporting day. The transmitted data file shall be supplied in ASCII text comma delimited format and shall include arsenic, as measured and recorded by the CEMS.

D. The transmitted data file(s) supplied shall be the original, first generation, raw and unedited data files produced by the CEMS data acquisition and recording system. The data files shall be transmitted and/or made accessible in a manner approved in writing by the SCAQMD.

E. In instances where there is a power, computer, or other system failure that prohibits the reporting of data described in this subparagraph, the operator shall use the procedures outlined in Rule 2012(c)(3)(A), 2012(c)(3)(C), and 2012(c)(3)(D), where references to NO_x shall be taken to mean arsenic.

F. For the purpose of this condition, the arsenic emissions data obtained pursuant to this condition shall only be used for verification of compliance with the Rule 1402

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Risk Reduction Plan (RRP) and/or its enforcement.

G. CEMS TESTING. At a minimum, the operator shall perform one set of three California Air Resources Board (CARB) Method 436 runs annually.

H. If the annualized emissions from the average of the three Method 436 runs exceed 3.250 pounds arsenic per year, the operator shall perform a subsequent set of three CARB Method 436 runs within six months.

I. If the annualized emissions from the average of the three Method 436 runs fall below 3.250 pounds arsenic per year, the operator shall perform a subsequent set of three CARB Method 436 runs within twelve months. The operator shall be permitted to use the Rule 1420.1 Compliance Test to satisfy this requirement.

J. ARSENIC EMISSIONS NOTIFICATION AND SUBMITTAL OF ARSENIC RISK REDUCTION MEASURES. When the rolling 30-day annualized arsenic emissions reach or exceed 5.850 pounds, the operator shall, within 24 hours of the exceedance, notify the SCAQMD via email in a manner approved in writing by the SCAQMD.

K. When the rolling 30-day annualized arsenic emissions reach or exceed 5.850 pounds, the operator shall submit a list of arsenic risk reduction measures which has been taken or will be taken to reduce arsenic emissions and ensure that the 6.500 pound limit will not be exceeded. This list of risk reduction measures shall be submitted to the SCAQMD via email in a manner approved in writing by the SCAQMD, within 96 hours of reaching or exceeding 5.850 pounds of annualized arsenic.

L. If the end of the reporting time limits in this condition fall on a weekend or holiday, the report shall be made on the next SCAQMD business day following the end of the reporting time limit. For the purpose of this condition, refer to the calculation procedures in subpart A of this condition.

M. WESP CEMS Failure or Shutdown. For WESP multiple metals CEMS failure or shutdown which exceeds 24 hours, the operator shall notify the SCAQMD via email in a manner approved in writing by the SCAQMD. If the end of the 24 hour period

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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

falls on a weekend or holiday, the operator shall notify the SCAQMD on the next SCAQMD business day.

N. In the case of a CEMS failure or shutdown, compliance with the monitoring provisions in the RRP is waived for a period not to exceed 96 consecutive hours, except as provided as follows. Beyond 96 consecutive hours, the operator shall file a petition on the next SCAQMD business day for an interim variance in accordance with Regulation V and upon such filing the RRP waiver period shall be extended and shall terminate at the time the Hearing Board acts upon such variance petition.

[RULE 1402, 10-7-2016]

[Devices subject to this condition : 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]

[Devices subject to this condition : D83, D92]

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

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]

H23.4 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
HAPs	40CFR63, SUBPART	ZZZZ
CO	40CFR60, SUBPART	JJJJ

[**40CFR 60 Subpart JJJJ, 8-30-2016; 40CFR 63 Subpart ZZZZ, 1-30-2013**]

[Devices subject to this condition : D176, D179]

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 1420.1, 11-5-2010; RULE 1420.1, 9-4-2015; 40CFR 63 Subpart X, 1-3-2014**]

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[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, 1-3-2014; 40CFR Part 64, 10-22-1997]

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

I. Administrative

I297.1 This equipment shall not be operated unless the facility holds 116 pounds of NO_x RTCs in its allocation account to offset the annual emissions increase for the first year of operation. RTCs held to satisfy this condition may be transferred only after one year from the initial start of operation. If the hold amount is partially satisfied by holding RTCs that expire midway through the hold period, those RTCs may be transferred upon their respective expiration dates. This hold amount is in addition to any other amount of RTCs required to be held under other condition(s) stated in this permit.

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

In lieu of holding RTCs for the entire duration specified above, RTCs held for the purpose of demonstrating compliance with this condition may be transferred as specified below, provided quarterly emissions do not exceed the corresponding quarterly limit listed in the table below. The amount available for transfer shall be as specified in Rule 2005(f)(3). Such amount may be transferred only after the end of the subject quarter. If the first day of operation does not coincide with the first day of a calendar quarter, the emission limit for that calendar quarter shall be prorated based on the number of days remaining in the calendar quarter as of the first day of operation and the amount available for transfer after that calendar quarter shall be the prorated emission limit minus the actual emissions reportable for that calendar quarter pursuant to RECLAIM Monitoring, Recordkeeping, and Reporting protocols (MRR) and the emission limit for the portion of the first year of operation falling in the fifth calendar quarter shall be prorated based on the number of days of the first year of operation occurring in that calendar quarter and the amount available for transfer after that calendar quarter shall be the prorated emission limit minus the actual emissions reportable for the portion of the first year of operation occurring in that calendar quarter pursuant to RECLAIM MRR. If the quarterly certified emissions for any quarter (or portion of a quarter occurring within the first year of operation) exceed the corresponding quarterly emission limit or prorated quarterly emission limit, as applicable, the facility may only sell RTCs held pursuant to Rule 2005(f) after the first calendar quarter ending at least one year after operation commences.

Calendar Quarter	Emission Limit (Pounds of NOx RTCs)
January 1 through March 31	29
April 1 through June 30	29
July 1 through September 30	29
October 1 through December 31	29

[RULE 2005(c)(2), 6-3-2011; RULE 2005(c)(2), 12-4-2015; RULE 2012, 5-6-2005; RULE 2012, 2-5-2016]

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[Devices subject to this condition : D176]

I297.2 This equipment shall not be operated unless the facility holds 188 pounds of NO_x RTCs in its allocation account to offset the annual emissions increase for the first year of operation. RTCs held to satisfy this condition may be transferred only after one year from the initial start of operation. If the hold amount is partially satisfied by holding RTCs that expire midway through the hold period, those RTCs may be transferred upon their respective expiration dates. This hold amount is in addition to any other amount of RTCs required to be held under other condition(s) stated in this permit.

In lieu of holding RTCs for the entire duration specified above, RTCs held for the purpose of demonstrating compliance with this condition may be transferred as specified below, provided quarterly emissions do not exceed the corresponding quarterly limit listed in the table below. The amount available for transfer shall be as specified in Rule 2005(f)(3). Such amount may be transferred only after the end of the subject quarter. If the first day of operation does not coincide with the first day of a calendar quarter, the emission limit for that calendar quarter shall be prorated based on the number of days remaining in the calendar quarter as of the first day of operation and the amount available for transfer after that calendar quarter shall be the prorated emission limit minus the actual emissions reportable for that calendar quarter pursuant to RECLAIM Monitoring, Recordkeeping, and Reporting protocols (MRR) and the emission limit for the portion of the first year of operation falling in the fifth calendar quarter shall be prorated based on the number of days of the first year of operation occurring in that calendar quarter and the amount available for transfer after that calendar quarter shall be the prorated emission limit minus the actual emissions reportable for the portion of the first year of operation occurring in that calendar quarter pursuant to RECLAIM MRR. If the quarterly certified emissions for any quarter (or portion of a quarter occurring within the first year of operation) exceed the corresponding quarterly emission limit or prorated quarterly emission limit, as applicable, the facility may only sell RTCs held pursuant to Rule 2005(f) after the first calendar quarter ending at least one year after operation commences.

Calendar Quarter

Emission Limit (Pounds of NO_x RTCs)

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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

January 1 through March 31	47
April 1 through June 30	47
July 1 through September 30	47
October 1 through December 31	47

**[RULE 2005(c)(2), 6-3-2011; RULE 2005(c)(2), 12-4-2015; RULE 2012, 5-6-2005;
RULE 2012, 2-5-2016]**

[Devices subject to this condition : D179]

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 and/or non-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.

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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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; 40CFR Part 64, 10-22-1997]

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

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 : D83, D92]

K67.4 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 D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

For architectural applications where no thinners, reducers, or other VOC containing materials are added, maintain semi-annual records for all coating consisting of (a) coating type, (b) VOC content as supplied in grams per liter (g/l) of materials for low-solids coatings, (c) VOC content as supplied in g/l of coating, less water and exempt solvent, for other coatings.

For architectural applications where thinners, reducers, or other VOC containing materials are added, maintain daily records for each coating consisting of (a) coating type, (b) VOC content as applied in grams per liter (g/l) of materials used for low-solids coatings, (c) VOC content as applied in g/l of coating, less water and exempt solvent, for other coatings.

[RULE 1113, 11-8-1996; RULE 1113, 7-9-2004; RULE 1171, 11-7-2003; RULE 1171, 5-6-2005; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : E97]

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, 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):

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

[40CFR 63 Subpart X, 1-3-2014; 40CFR Part 64, 10-22-1997]

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[Devices subject to this condition : C26, C27, C28, C29, C30, C31, C32, C33, C34, C168, C170]

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, 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):

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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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 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, 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):

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 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.

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

[**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.

[**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):

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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):

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.

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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**]

[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):

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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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]

K67.19 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 D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

An engine operating log shall be maintained which includes manual and automatic operation and shall list all engine operations in each of the following areas:

- 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 five calendar years prior to the current year and made available to SCAQMD personnel upon request.

[RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996; RULE 2005, 12-4-2015]

[Devices subject to this condition : D176, D179]

K67.21 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

The date and time on which inspection(s) are conducted.

The components inspected during such inspection(s).

The components subsequently identified that require maintenance, repair, and/or corrective action.

Full description of any associated maintenance, repairs, and/or corrective actions taken as a result of the inspection(s) conducted.

The date and time any associated maintenance, repairs, and/or corrective actions is completed.

FACILITY PERMIT TO OPERATE QUEMETCO INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[RULE 204, 10-8-1993]

[Devices subject to this condition : C161]