

FACILITY PERMIT TO OPERATE

**AERA ENERGY LLC
20101 GOLDENWEST ST
HUNTINGTON BEACH, CA 92648**

NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR A COPY THEREOF MUST BE KEPT AT THE LOCATION FOR WHICH IT IS ISSUED.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT SHALL NOT BE CONSTRUED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF ANY OTHER FEDERAL, STATE OR LOCAL GOVERNMENTAL AGENCIES.

Barry R. Wallerstein, D. Env.
EXECUTIVE OFFICER

By _____
Mohsen Nazemi, P.E.
Deputy Executive Officer
Engineering & Compliance

FACILITY PERMIT TO OPERATE AERA ENERGY LLC

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 : CRUDE OIL/GAS PRODUCTION					
System 1 : CRUDE OIL/GAS/WATER SEPARATION					
VESSEL, V-104, FREE WATER KNOCK OUT, LENGTH: 40 FT; DIAMETER: 10 FT A/N: 450152	D1				
VESSEL, V-107, FREE WATER KNOCK OUT, LENGTH: 60 FT; DIAMETER: 12 FT A/N: 450152	D2				
VESSEL, V-108, FREE WATER KNOCK OUT, LENGTH: 60 FT; DIAMETER: 12 FT A/N: 450152	D3				
VESSEL, V-109, FREE WATER KNOCK OUT, LENGTH: 60 FT; DIAMETER: 12 FT A/N: 450152	D4				
VESSEL, V-110, FREE WATER KNOCK OUT, LENGTH: 60 FT; DIAMETER: 12 FT A/N: 450152	D5				
VESSEL, V-111, FREE WATER KNOCK OUT, LENGTH: 60 FT; DIAMETER: 12 FT A/N: 450152	D6				
VESSEL, V-114, FREEWATER KNOCKOUT, LENGTH: 60 FT; DIAMETER: 12 FT A/N: 450152	D7				

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|---|---|
| <p>* (1)(1A)(1B) Denotes RECLAIM emission factor
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 (7) Denotes NSR applicability limit
 (9) See App B for Emission Limits</p> | <p>(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</p> |
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Process 1 : CRUDE OIL/GAS PRODUCTION					
VESSEL, V-115, FREE WATER KNOCK OUT, LENGTH: 60 FT; DIAMETER: 12 FT A/N: 450152	D8				
TANK, HOLDING, T-101, CRUDE OIL, VENTED TO VAPOR RECOVERY COMPRESSOR, 2000 BBL; DIAMETER: 29 FT 9 IN; HEIGHT: 16 FT A/N: 450152	D10				E57.1, E127.1, H23.5
TANK, HOLDING, T-102, CRUDE OIL, VENTED TO VAPOR RECOVERY COMPRESSOR, 2000 BBL; DIAMETER: 29 FT 9 IN; HEIGHT: 16 FT A/N: 450152	D11				E57.1, E127.1, H23.5
TANK, HOLDING, T-103, WET OIL DIVERT, VENTED TO VAPOR RECOVERY COMPRESSOR, 2000 BBL; DIAMETER: 29 FT 9 IN; HEIGHT: 16 FT A/N: 450152	D12				E57.1, E127.1, H23.5
TANK, HOLDING, T-104, WET OIL DIVERT, VENTED TO VAPOR RECOVERY COMPRESSOR, 2000 BBL; DIAMETER: 29 FT 9 IN; HEIGHT: 16 FT A/N: 450152	D13				E57.1, E127.1, H23.5
TANK, HOLDING, T-318, SKIM OIL, VENTED TO VAPOR RECOVERY COMPRESSOR, 5000 BBL; DIAMETER: 38 FT 8 IN; HEIGHT: 24 FT A/N: 450152	D15				E57.1, E127.1, H23.5

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Process 1 : CRUDE OIL/GAS PRODUCTION					
PIT, NO.1, COVERED, WASTE OIL, VENTED TO VAPOR RECOVERY COMPRESSOR, WIDTH: 40 FT 6 IN; LENGTH: 59 FT 6 IN A/N: 450152	D17				E57.1, H23.4
VESSEL, SEPARATOR, V-150, RELIEF KNOCKOUT DRUM, LENGTH: 15 FT; DIAMETER: 8 FT A/N: 450152	D41				H23.3
TANK, SURGE, T-317, SURGE/SKIM OIL TANK, SKIM OIL/WASTEWATER, VENTED TO VAPOR RECOVERY COMPRESSOR, 5000 BBL; DIAMETER: 38 FT 8 IN; HEIGHT: 24 FT A/N: 450152	D14				E57.1, E127.1, E193.1, H23.5, K67.5
System 2 : WASTE WATER TREATMENT					
FLOATATION UNIT, WEMCO, T-337, VENTED TO VAPOR RECOVERY COMPRESSOR, 550 BBL A/N: 458437	D23				E127.1, H23.4
FLOATATION UNIT, WEMCO, T-338, VENTED TO VAPOR RECOVERY COMPRESSOR, 550 BBL A/N: 458437	D24				E127.1, H23.4
TANK, SURGE, T-317, SURGE/SKIM OIL TANK, SKIM OIL/WASTEWATER, VENTED TO VAPOR RECOVERY COMPRESSOR, 5000 BBL; DIAMETER: 38 FT 8 IN; HEIGHT: 24 FT A/N: 450152	D14				E57.1, E127.1, E193.1, H23.5, K67.5

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Process 1 : CRUDE OIL/GAS PRODUCTION					
TANK, SURGE, T-350, INJECTION WATER, VENTED TO VAPOR RECOVERY COMPRESSOR, 5000 BBL; DIAMETER: 38 FT 8 IN; HEIGHT: 24 FT A/N: 458437	D215				E57.1, E127.1, H23.5
TANK, SURGE, T-326, RAINWATER, 2300 BBL; DIAMETER: 29 FT; HEIGHT: 20 FT A/N: 458437	D28				
TANK, SURGE, T-327, RAINWATER, 2300 BBL; DIAMETER: 29 FT; HEIGHT: 20 FT A/N: 458437	D29				
TANK, SURGE, T-328, RAINWATER, 2300 BBL; DIAMETER: 29 FT; HEIGHT: 20 FT A/N: 458437	D30				
TANK, SURGE, T-360, RAINWATER, 2000 BBL; DIAMETER: 29 FT 9 IN; HEIGHT: 16 FT A/N: 458437	D34				
OIL WATER SEPARATOR, T-339, 1000 BBL CAPACITY,, VENTED TO THE VAPOR RECOVERY COMPRESSOR, LENGTH: 60 FT; DIAMETER: 12 FT A/N: 458437	D36				E57.1, E127.1, H23.7
PIT, NO. 3, COVERED, SKIM OIL, VENTED TO THE VAPOR RECOVERY COMPRESSOR A/N: 458437	D40				E57.1, H23.4

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| <ul style="list-style-type: none"> * (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 | <ul style="list-style-type: none"> (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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Process 1 : CRUDE OIL/GAS PRODUCTION					
TANK, HOLDING, T-340,, OILY WATER, VACUUM TRUCK OFFLOADING, VENTED TO VAPOR RECOVERY COMPRESSOR, 180 BBL; DIAMETER: 12 FT; HEIGHT: 15 FT 1 IN A/N: 458437	D216				E57.1, E127.1, H23.3
TANK, HOLDING, T-341,, OILY WATER, VACUUM TRUCK OFFLOADING, VENTED TO VAPOR RECOVERY COMPRESSOR, 180 BBL; DIAMETER: 12 FT; HEIGHT: 15 FT 1 IN A/N: 458437	D217				E57.1, E127.1, H23.3
TANK, HOLDING, T-342, OILY WATER, VENTED TO VAPOR RECOVERY COMPRESSOR, 1000 BBL; DIAMETER: 29 FT 9 IN; HEIGHT: 8 FT A/N: 458437	D218				E57.1, E127.1, H23.5
TANK, HOLDING, T-343, OILY WATER, VENTED TO VAPOR RECOVERY COMPRESSOR, 1000 BBL; DIAMETER: 29 FT 9 IN; HEIGHT: 8 FT A/N: 458437	D219				E57.1, E127.1, H23.5
TANK, HOLDING, T-345, PROCESS DRAIN/RAIN WATER, SUMP DRAIN, VENTED TO VAPOR RECOVERY COMPRESSOR, 53 BBL; WIDTH: 5 FT; HEIGHT: 5 FT; LENGTH: 12 FT A/N: 458437	D220				E57.1, E127.1

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Process 1 : CRUDE OIL/GAS PRODUCTION					
System 3 : GAS GATHERING					
SCRUBBER, FUEL GAS, V-322, HEIGHT: 6 FT; DIAMETER: 1 FT 6 IN A/N: 480944	D82				
SCRUBBER, WET GAS, V-323, LENGTH: 10 FT; DIAMETER: 4 FT 2 IN A/N: 480944	D120				
GAS SEPARATOR, V-100, (NORTH BOLSA), VENTING TO THE HUNTINGTON BEACH GAS PLANT., HEIGHT: 10 FT; DIAMETER: 4 FT A/N: 480944	D19				
SCRUBBER, SOUTH BOLSA, HEIGHT: 8 FT; DIAMETER: 3 FT A/N: 480944	D145				
SCRUBBER, LEASE 392 A/N: 480944	D146				
SCRUBBER, LEASE 425 A/N: 480944	D147				
SCRUBBER, LEASE 426 A/N: 480944	D148				
SCRUBBER, HIGH PRESSURE, HEIGHT: 8 FT; DIAMETER: 4 FT A/N: 480944	D128				
SCRUBBER, LOW PRESSURE, HEIGHT: 12 FT; DIAMETER: 5 FT A/N: 480944	D130				

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Process 1 : CRUDE OIL/GAS PRODUCTION					
SCRUBBER, SUCTION, EMMY HIGH PRESSURE GAS, HEIGHT: 6 FT; DIAMETER: 2 FT 6 IN A/N: 480944	D170				
SCRUBBER, DISCHARGE, EMMY HIGH PRESSURE GAS, HEIGHT: 6 FT; DIAMETER: 1 FT 4 IN A/N: 480944	D171				
SCRUBBER, EMMY LOW PRESSURE CASING GAS, HEIGHT: 12 FT; DIAMETER: 5 FT A/N: 480944	D221				
System 4 : GAS DESULFURIZATION (STRETFORD UNIT)					
SCRUBBER, V-1, WET GAS, HEIGHT: 13 FT 7 IN; DIAMETER: 6 FT A/N: 416211	D42				
ABSORBER, V-2 (STRETFORD UNIT FOR H2S ABSORPTION), HEIGHT: 25 FT; DIAMETER: 3 FT 6 IN A/N: 416211	D20				
ABSORBER, V-3 (STRETFORD UNIT FOR H2S ABSORPTION), HEIGHT: 25 FT; DIAMETER: 3 FT 6 IN A/N: 416211	D43				
ABSORBER, V-5 (STRETFORD UNIT FOR H2S ABSORPTION), (STANDBY), HEIGHT: 25 FT; DIAMETER: 3 FT 6 IN A/N: 416211	D45				

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Process 1 : CRUDE OIL/GAS PRODUCTION					
SCRUBBER, V-4, LIQUID SCRUBBER, HEIGHT: 13 FT 7 IN; DIAMETER: 6 FT A/N: 416211	D46				
PROCESS TANK, T-2, REACTION TANK, HEIGHT: 9 FT 6 IN; DIAMETER: 12 FT A/N: 416211	D47				
PROCESS TANK, UNHEATED, BACKUP SULFUR SLURRY TANK, SULFUR SLURRY, OPEN TOP, 470 BBL; WIDTH: 8 FT; HEIGHT: 11 FT; LENGTH: 30 FT A/N: 416211	D172				
PROCESS TANK, T-3, OXIDIZER TANK, HEIGHT: 20 FT 9 IN; DIAMETER: 12 FT A/N: 416211	D48				
PROCESS TANK, UNHEATED, T-1, SULFUR SLURRY HOLDING TANK, HEIGHT: 8 FT; DIAMETER: 8 FT A/N: 416211	D83				
PROCESS TANK, MIXING TANK, HEIGHT: 4 FT; DIAMETER: 4 FT A/N: 416211	D85				
STORAGE TANK, STRETFORD SOLUTION, HEIGHT: 10 FT; DIAMETER: 10 FT A/N: 416211	D86				

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Process 1 : CRUDE OIL/GAS PRODUCTION					
System 6 : NATURAL GAS STABILIZATION					S13.1, S13.2
KNOCK OUT POT, V-601, COMPRESSOR SUCTION A/N: 473512	D64				
KNOCK OUT POT, V-602, COMPRESSOR 1ST STAGE DISCHARGE A/N: 473512	D65				
KNOCK OUT POT, V-606, COMPRESSOR 2ND STAGE DISCHARGE A/N: 473512	D133				
VESSEL, V-604, H2S REMOVAL TOWER (PACKED WITH SULFATREAT OR EQUIVALENT MATERIAL), HEIGHT: 20 FT; DIAMETER: 6 FT A/N: 473512	D80				
VESSEL, V-605, H2S REMOVAL TOWER (PACKED WITH SULFATREAT OR EQUIVALENT MATERIAL), HEIGHT: 20 FT; DIAMETER: 6 FT A/N: 473512	D101				
VESSEL, SEPARATOR, V-603, GLYCOL, LENGTH: 8 FT; DIAMETER: 3 FT A/N: 473512	D79				
KNOCK OUT POT, V-607, LIQUID KNOCKOUT A/N: 473512	D134				

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Process 1 : CRUDE OIL/GAS PRODUCTION					
VESSEL, V-701, GLYCOL FLASH DRUM A/N: 473512	D136				
VESSEL, V-801, REFRIGERANT COMPRESSOR SUCTION DRUM A/N: 473512	D137				
VESSEL, V-802, REFRIGERANT SURGE DRUM A/N: 473512	D138				
VESSEL, V-803, GAS/LUBE OIL SEPARATOR A/N: 473512	D139				
STORAGE TANK, T-703, GLYCOL STORAGE A/N: 473512	D141				
SUMP, T-704, GLYCOL COLLECTION A/N: 473512	D142				
SUMP, T-705, OPEN DRAIN A/N: 473512	D143				
COLUMN, GLYCOL STILL, HEIGHT: 8 FT; DIAMETER: 1 FT A/N: 473512	D173				
HEAT EXCHANGER, COMPRESSOR 1ST STAGE DISCHARGE COOLER, E-601 A/N: 473512	D174				

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Process 1 : CRUDE OIL/GAS PRODUCTION					
HEAT EXCHANGER, COMPRESSOR 2ND STAGE DISCHARGE COOLER, E-602, AIR COOLED A/N: 473512	D175				
HEAT EXCHANGER, GAS TO GAS, E-603 A/N: 473512	D176				
HEAT EXCHANGER, GAS CHILLER, E-604 A/N: 473512	D177				
HEAT EXCHANGER, RICH-LEAN GLYCOL, E-701 A/N: 473512	D178				
REGENERATOR, GLYCOL REGENERATOR, E-702, ELECTRICAL, 142 KW A/N: 473512	D179				
HEAT EXCHANGER, GLYCOL REGENERATOR OFF-GAS COOLER, E-703, AIR COOLED A/N: 473512	D180				
HEAT EXCHANGER, REFRIGERANT CONDENSER, E-801, AIR COOLED A/N: 473512	D181				
HEAT EXCHANGER, LUBE OIL COOLER, E-802, AIR COOLED A/N: 473512	D182				

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Process 1 : CRUDE OIL/GAS PRODUCTION					
FILTER, F-901, INLET GAS COALESCING FILTER, HEIGHT: 4 FT; DIAMETER: 2 FT A/N: 473512	D183				
TOWER, T-901, GLYCOL CONTACT, PACKED COLUMN WITH INTEGRAL BOTTOM SCRUBBER/WIRE MESH SCREEN, HEIGHT: 29 FT; DIAMETER: 1 FT 2 IN. A/N: 473512	D184				
COLUMN, T-902, GLYCOL REGENERATION A/N: 473512	D185				
DRUM, V-900, RICH GLYCOL A/N: 473512	D186				
FILTER, F-902, RICH GLYCOL PARTICULATE FILTER, HEIGHT: 4 FT; DIAMETER: 2 FT A/N: 473512	D187				
FILTER, F-903, RICH GLYCOL CARBON FILTER, HEIGHT: 4 FT; DIAMETER: 2 FT A/N: 473512	D188				
HEAT EXCHANGER, LEAN-RICH GLYCOL EXCHANGER, E-901 A/N: 473512	D189				
REGENERATOR, GLYCOL RE-BOILER, V-901, ELECTRICAL, 40 KW A/N: 473512	D190				

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1 : CRUDE OIL/GAS PRODUCTION					
COLUMN, T-903, GLYCOL STRIPING, HEIGHT: 8 FT; DIAMETER: 1 FT A/N: 473512	D191				
DRUM, V-902, GLYCOLSURGE A/N: 473512	D192				
HEAT EXCHANGER, LEAN GLYCOL FIN-FAN COOLER, E-900, AIR COOLED A/N: 473512	D193				
DRUM, V-904, VAPOR RECOVERY KNOCKOUT, VENTED TO VAPOR RECOVERY SYSTEM A/N: 473512	D194				E57.1
System 7 : NATURAL GAS DEHYDRATION UNIT (Platform Emmy Gas)					S13.1, S13.2
FILTER, F-900, INLET GAS COALESCING FILTER, HEIGHT: 4 FT; DIAMETER: 2 FT A/N: 425913	D195				
TOWER, T-900, GLYCOL CONTACT, PACKED COLUMN WITH AN INTEGRAL BOTTOM SCRUBBER AND WIRE MESH SCREEN, HEIGHT: 29 FT; DIAMETER: 1 FT 2 IN A/N: 425913	D196				
FILTER, F-904, EMMY GAS COALESCING FILTER, HEIGHT: 8 FT; DIAMETER: 2 FT A/N: 425913	D197				

- * (1)(1A)(1B) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
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- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2)(2A)(2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (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
 AERA ENERGY LLC**

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 : CRUDE OIL/GAS PRODUCTION					
System 8 : FUGITIVE EMISSION DEVICES					
FUGITIVE EMISSIONS, PUMPS A/N: 450152	D76				H23.1
FUGITIVE EMISSIONS, COMPRESSORS A/N: 480944	D77				H23.1
FUGITIVE EMISSIONS, VALVES A/N: 450152	D78				H23.1
FUGITIVE EMISSIONS, FLANGES A/N: 450152	D108				H23.1
FUGITIVE EMISSIONS, DRAINS A/N: 450152	D112				H23.3
FUGITIVE EMISSIONS, PRV A/N: 450152	D113				H23.1
System 9 : Di-Ethanol Amine Unit (CO2 Removal)					
FILTER, F-1001, INLET GAS COALESCING FILTER, WITH PRV SET AT 350 PSIG, VENTING TO APC SYSTEM, HEIGHT: 6 FT 9 IN; DIAMETER: 9 IN A/N: 434611	D199	D131			
TOWER, T-1006, AMINE CONTACTOR, PACKED COLUMN, WITH PRV SET AT 350 PSIG, VENTING TO APC SYSTEM, HEIGHT: 20 FT; DIAMETER: 2 FT A/N: 434611	D201	D131			D12.2, D90.1

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- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits

- (2)(2A)(2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
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FACILITY PERMIT TO OPERATE AERA ENERGY LLC

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 : CRUDE OIL/GAS PRODUCTION					
VESSEL, V-1003, AMINE FLASH TANK, WITH PRV SET AT 100 PSIG, VENTING TO APC SYSTEM, HEIGHT: 10 FT; DIAMETER: 3 FT 6 IN A/N: 434611	D204	D131			D12.3, D90.2
FILTER, F-1003, PARTICULATE FILTER, WITH PRV SET AT 100 PSIG, VENTING TO CLOSED DRAIN HEADER, HEIGHT: 4 FT; DIAMETER: 3 FT A/N: 434611	D205				
FILTER, F-1004, CHARCOAL FILTER (1,030 LBS CHARCOAL), WITH PRV SET AT 250 PSIG, VENTING TO CLOSED DRAIN HEADER, HEIGHT: 8 FT; DIAMETER: 2 FT 6 IN A/N: 434611	D206				
HEAT EXCHANGER, E-1002, LEAN/RICH AMINE EXCHANGER, SHELL AND TUBE TYPE, 0.74 MMBTU/HR A/N: 434611	D207				
TOWER, T-1007, AMINE REGENERATOR, WITH PRV SET AT 50 PSIG, VENTING TO ATMOSPHERE, HEIGHT: 28 FT; DIAMETER: 2 FT A/N: 434611	D208				

- * (1)(1A)(1B) Denotes RECLAIM emission factor
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- (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
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FACILITY PERMIT TO OPERATE AERA ENERGY LLC

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 : CRUDE OIL/GAS PRODUCTION					
HEATER, V-1007, AMINE RE-BOILER, NATURAL GAS, MAXON, MODEL MPBC4RSFNAAA, 2.7 MMBTU/HR A/N: 434612	D209		NOX: PROCESS UNIT**	CO: 50 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT,5-10-1996;RULE 1303(a)(1)-BACT,12-6-2002] ; NOX: 38.46 LBS/MMSCF NATURAL GAS (1) [RULE 2012,3-16-2001 RULE 2012,5-11-2001] ; NOX: 12 PPMV NATURAL GAS (4) [RULE 2005,4-9-1999;RULE 2005,4-20-2001]	A195.1, A195.2, I296.2
HEAT EXCHANGER, E-1003, AMINE REGENERATOR OVERHEAD CONDENSER, AIR COOLED, 0.68 MMBTU/HR, VENTING ACID GAS TO V-1005 A/N: 434611	D210	D211			
VESSEL, V-1005, REGENERATOR OVERHEAD REFLUX ACCUMULATOR, HEIGHT: 7 FT; DIAMETER: 1 FT 1 IN A/N: 434611	D211	D210			D12.4, E175.1
HEAT EXCHANGER, E-1001, LEAN AMINE COOLER, AIR COOLED, 0.95 MMBTU/HR A/N: 434611	D212				
OXIDIZER, THERMAL, HT-1000, NATURAL GAS, F. I. COMBUSTION SYSTEMS, MODEL NO. FIRECAT #2.2.1, 2 MMBTU/HR A/N: 436452	C213		NOX: PROCESS UNIT**	NOX: 130 LBS/MMSCF NATURAL GAS (1) [RULE 2012,3-16-2001;RULE 2012,5-11-2001]	A195.3, C6.3, C8.4, I296.1

- * (1)(1A)(1B) Denotes RECLAIM emission factor
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- (9) See App B for Emission Limits

- (2)(2A)(2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
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- (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
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** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE AERA ENERGY LLC

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 : CRUDE OIL/GAS PRODUCTION					
TANK, T-1000, AMINE MAKE-UP SOLUTION, AMINE, CAPACITY 1000 GALONS, WITH PRV VENTING TO ATMOSPHERE A/N: 434611	D214				
Process 2 : INTERNAL COMBUSTION					
System 1 : EMERGENCY ENGINES					
INTERNAL COMBUSTION ENGINE, EMERGENCY FIRE, DIESEL FUEL, CLARKE DETROIT DIESEL, MODEL DDFP-4AT, WITH TURBOCHARGER, 235 BHP WITH A/N: 383700 PUMP, FIRE WATER	D149		NOX: PROCESS UNIT**	NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012,5-11-2001;RULE 2012,12-5-2003] ; PM: (9) [RULE 404,2-7-1986]	C1.2, D12.1, D135.1, K67.1
System 2 : PLATFORM EMMY- ENGINES					
INTERNAL COMBUSTION ENGINE, EMERGENCY FIRE, DIESEL FUEL, DETROIT DIESEL, MODEL 671RC, 241 HP WITH A/N: 383701 PUMP, FIRE WATER	D44		NOX: PROCESS UNIT**	NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012,5-11-2001;RULE 2012,12-5-2003] ; PM: (9) [RULE 404,2-7-1986]	C1.2, D12.1, D135.1, K67.1
INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, PLATFORM EMMY, DIESEL FUEL, WAUKESHA, MODEL F674DS, 300 HP WITH A/N: 383698	D103		NOX: PROCESS UNIT**	NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012,5-11-2001;RULE 2012,12-5-2003] ; PM: (9) [RULE 404,2-7-1986]	C1.6, D12.1, D135.1, E116.1, E162.1, K67.1

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|---|---|
| <p>* (1)(1A)(1B) Denotes RECLAIM emission factor
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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</p> | <p>(2)(2A)(2B) Denotes RECLAIM emission rate
 (4) Denotes BACT emission limit
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|---|---|

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

FACILITY PERMIT TO OPERATE AERA ENERGY LLC

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 2 : INTERNAL COMBUSTION					
.GENERATOR					
INTERNAL COMBUSTION ENGINE, PLATFORM EMMY, DIESEL FUEL, DETROIT DIESEL, MODEL 7083-7005, DRIVING A CRANE, 273 HP A/N: 301273	D104		NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 1110.2,11-14-1997] ; NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012,5-11-2001;RULE 2012,12-5-2003] PM: (9) [RULE 404,2-7-1986] ; ROG: 250 PPMV (5) [RULE 1110.2,11-14-1997]	C1.1, D12.1, D28.1, D323.2
System 3 : EMERGENCY INSTRUMENT AIR COMPRESSOR					
INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, DIESEL FUEL, CUMMINS MODEL 6BTA5.9, INSTRUMENT AIR COMPRESSOR DRIVER, WITH AFTERCOOLER, TURBOCHARGER, 174 HP WITH A/N: 394671	D168		NOX: PROCESS UNIT**	CO: 8.5 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT,5-10-1996] ; NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012,5-11-2001;RULE 2012,12-5-2003]. NOX: 6.9 GRAM/BHP-HR DIESEL (4) [RULE 2005,4-9-1999;RULE 2005,4-20-2001] ; PM: (9) [RULE 404,2-7-1986] ; PM10: 0.38 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT,5-10-1996]	C1.7, D12.1, D135.1, E116.1, E162.1, K67.1

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 (7) Denotes NSR applicability limit
 (9) See App B for Emission Limits

(2)(2A)(2B) Denotes RECLAIM emission rate
 (4) Denotes BACT emission limit
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FACILITY PERMIT TO OPERATE AERA ENERGY LLC

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 2 : INTERNAL COMBUSTION					
COMPRESSOR, INSTRUMENT AIR				VOC: 1 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)- BACT,5-10-1996]	
Process 3 : PETROLEUM STORAGE/DISPENSING					
STORAGE TANK, UNDERGROUND, JET FUEL (JPA), 4000 GALS; DIAMETER: 6 FT 3 IN; HEIGHT: 19 FT 11.5 IN A/N: 301278	D68				
FUEL DISPENSING NOZZLE, JET FUEL (JPA) A/N: 301278	D63				
Process 4 : SOIL VAPOR EXTRACTION					
System 1 : THERMAL/CATALYTIC OXIDATION					
VAPOR EXTRACTION WELL A/N: 407973	D155	C156			
OXIDIZER, THERMAL, STEALTH INDUSTRIES, PROCESS GAS, PROPANE, MODEL COBRA 500, 0.85 MMBTU/HR WITH A/N: 407973	C156	D155 C157	NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 407,4-2-1982] ; NOX: 130 LBS/MMSCF PROCESS GAS (1) [RULE 2012,5-11-2001;RULE 2012,12-5-2003]	A63.1, B59.1, B61.1, C1.3, C6.2, C8.2

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- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2)(2A)(2B) Denotes RECLAIM emission rate
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FACILITY PERMIT TO OPERATE AERA ENERGY LLC

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 : SOIL VAPOR EXTRACTION					
OXIDIZER, CATALYTIC, MONOLYTHIC TYPE, OPTIONAL	C157	C156		NOX: 12.8 LBS/1000 GAL PROPANE (1) [RULE 2012,5-11-2001;RULE 2012,12-5-2003] ; PM: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981] PM: (9) [RULE 404,2-7-1986]	A63.1, B59.1, C1.3, C6.1, C8.1
Process 5 : FLARE					
KNOCK OUT POT, V-1, FLARE KNOCKOUT DRUM (PRESSURE VESSEL) A/N: 443091	D131	D199 D201 D204			
VESSEL, V-2, WATER SEAL DRUM A/N: 443091	D132	C81			
FLARE, GROUND FLARE, H-1, PROCESS GAS, HEIGHT: 40 FT; DIAMETER: 20 FT 10 IN A/N: 443091	C81	D132		CO: 2000 PPMV (5) [RULE 407,4-2-1982] ; PM: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981]; PM: (9) [RULE 404,2-7-1986]	D12.5

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(2)(2A)(2B) Denotes RECLAIM emission rate
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 (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
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FACILITY PERMIT TO OPERATE AERA ENERGY LLC

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 : RULE 219 EXEMPT EQUIPMENT SUBJECT TO SOURCE SPECIFIC RULES					
RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS	E158			VOC: (9) [RULE 1113,11-8-1996;RULE 1113,12-5-2003;RULE 1171,8-2-2002;RULE 1171,11-7-2003]	H23.8, K67.2
RULE 219 EXEMPT EQUIPMENT, EXEMPT HAND WIPING OPERATIONS	E159			VOC: (9) [RULE 1171,8-2-2002;RULE 1171,11-7-2003]	
RULE 219 EXEMPT EQUIPMENT, ABRASIVE BLASTING EQUIPMENT, GLOVE-BOX, <= 53 FT3, WITH DUST FILTER	E160			PM: (9) [RULE 1140,8-2-1985;RULE 404,2-7-1986;RULE 405,2-7-1986]	D323.1
RULE 219 EXEMPT EQUIPMENT, DEGREASER, CLEANING EQUIPMENT, SMALL, UNHEATED, NON-CONVEYORIZED	E161			VOC: (9) [RULE 1171,8-2-2002;RULE 1171,11-7-2003]	H23.2
Process 7 : Platform Emmy Vent Scrubber					
CARBON FILTER, T-210A; CAMERON ENVIRONMENTAL, KOH IMPREGNATED ACIVATED CARBON, MODEL 1500R, VENTING TO ATMOSPHERIC VENT POLE, HEIGHT: 7 FT 7 IN; DIAMETER: 4 FT A/N: 407975	C164				E224.1, K67.4

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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 7 : Platform Emmy Vent Scrubber					
CARBON FILTER, T-210B, CAMERON ENVIRONMENTAL, KOH IMPREGNATED ACTIVATED CARBON, MODEL 1500R, VENTING TO ATMOSPHERIC VENT. POLE, HEIGHT: 7 FT 7 IN; DIAMETER: 4 FT A/N: 407986	C165				E224.1, K67.4
Process 8 : Petroleum Marketing (Tank Truck Loading)					
LOADING ARM, BOTTOM, CRUDE OIL, WITH 2 HOSES, EACH. 3" DIA. AND WITH 3" DRIP-DRY SHUT-OFF VALVE A/N: 392592	D166			ROG: 0.08 LBS/1000 GAL (5) [RULE 462,5-14-1999]	C1.4, C1.5, E71.1, E147.1, H23.9, K67.3
VAPOR RETURN LINE, TWO 3" HOSES WITH QUICK DISCONNECT, VENTING TO VAPOR RECOVERY SYSTEM A/N: 392592	D167				C6.4, E57.2

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**FACILITY PERMIT TO OPERATE
AERA ENERGY LLC**

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
 AERA ENERGY LLC**

SECTION D: DEVICE ID INDEX

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D6	1	1	1
D7	1	1	1
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D11	2	1	1
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D13	2	1	1
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D29	4	1	2
D30	4	1	2
D34	4	1	2
D36	4	1	2
D40	4	1	2
D41	3	1	1
D42	7	1	4
D43	7	1	4
D44	17	2	2
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**FACILITY PERMIT TO OPERATE
 AERA ENERGY LLC**

SECTION D: DEVICE ID INDEX

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D78	14	1	8
D79	9	1	6
D80	9	1	6
C81	20	5	0
D82	6	1	3
D83	8	1	4
D85	8	1	4
D86	8	1	4
D101	9	1	6
D103	17	2	2
D104	18	2	2
D108	14	1	8
D112	14	1	8
D113	14	1	8
D120	6	1	3
D128	6	1	3
D130	6	1	3
D131	20	5	0
D132	20	5	0
D133	9	1	6
D134	9	1	6
D136	10	1	6
D137	10	1	6
D138	10	1	6
D139	10	1	6
D141	10	1	6
D142	10	1	6
D143	10	1	6
D145	6	1	3
D146	6	1	3
D147	6	1	3
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**FACILITY PERMIT TO OPERATE
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SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
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E158	21	6	0
E159	21	6	0
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D178	11	1	6
D179	11	1	6
D180	11	1	6
D181	11	1	6
D182	11	1	6
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D186	12	1	6
D187	12	1	6
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**FACILITY PERMIT TO OPERATE
 AERA ENERGY LLC**

SECTION D: DEVICE ID INDEX

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FACILITY PERMIT TO OPERATE AERA ENERGY LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

FACILITY CONDITIONS

F9.1 Except for open abrasive blasting operations, the operator shall not discharge into the atmosphere from any single source of emissions whatsoever any air contaminant for a period or periods aggregating more than three minutes in any one hour which is:

(a) As dark or darker in shade as that designated No.1 on the Ringelmann Chart, as published by the United States Bureau of Mines; or

(b) Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in subparagraph (a) of this condition.

[RULE 401, 3-2-1984; RULE 401, 11-9-2001]

F14.1 The operator shall not use fuel oil containing sulfur compounds in excess of 0.05 percent by weight.

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

F14.2 The operator shall not purchase diesel fuel containing sulfur compounds in excess of 15 ppm by weight as supplied by the supplier.

This condition shall become effective on or after June 1, 2004.

[RULE 431.2, 9-15-2000]

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

The operator shall comply with the Rule 1173 quarterly inspection and maintenance program for all valves, flanges, fittings, pumps, and other such devices in gas, vapor or light liquid VOC service

The operator shall keep records, in a manner approved by the District, of the total VOC emissions from all equipment and operations at this facility. Records shall be prepared in a format which is acceptable to the District and shall be made available upon request of the Executive Officer or his representative.

[RULE 1173, 5-13-1994; RULE 1173, 12-6-2002]

SYSTEM CONDITIONS

FACILITY PERMIT TO OPERATE AERA ENERGY LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

S13.1 All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	40CFR60, SUBPART	KKK

[40CFR 60 Subpart KKK, 11-1-1985]

[Systems subject to this condition : Process 1, System 6 , 7]

S13.2 All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
Sulfur compounds	District Rule	431.1

[RULE 431.1, 6-12-1998]

[Systems subject to this condition : Process 1, System 6 , 7]

DEVICE CONDITIONS

A. Emission Limits

FACILITY PERMIT TO OPERATE AERA ENERGY LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

CONTAMINANT	EMISSIONS LIMIT
Benzene	Less than or equal to 0.65 LBS PER DAY

[RULE 1401, 5-2-2003; RULE 1402, 3-17-2000; RULE 1403, 4-8-1994]

[Devices subject to this condition : C156]

A195.1 The 50 PPMV CO emission limit(s) is averaged over 60 minutes at 3 percent oxygen, dry.

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

[Devices subject to this condition : D209]

A195.2 The 12 PPMV NOX emission limit(s) is averaged over 60 minutes at 3 percent oxygen, dry.

[RULE 2005, 4-9-1999; RULE 2005, 4-20-2001]

[Devices subject to this condition : D209]

A195.3 The 30 PPMV NOX emission limit(s) is averaged over 60 minutes at 3 percent oxygen, dry.

[RULE 2005, 4-9-1999; RULE 2005, 4-20-2001]

[Devices subject to this condition : C213]

B. Material/Fuel Type Limits

FACILITY PERMIT TO OPERATE AERA ENERGY LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

chlorinated hydrocarbons

[RULE 1401, 5-2-2003; RULE 1402, 3-17-2000; RULE 1403, 4-8-1994]

[Devices subject to this condition : C156]

B61.1 The operator shall not use process gas containing the following specified compounds:

Compound	ppm by volume
sulfur compounds calculated as hydrogen sulfide greater than	40

the 40 ppm limit shall be averaged over a 4 hours period

[RULE 431.1, 6-12-1998]

[Devices subject to this condition : C156]

C. Throughput or Operating Parameter Limits

C1.1 The operator shall limit the operating time to no more than 2190 hours in any one year.

The purpose(s) of this condition is to ensure that this equipment qualifies as a process unit.

[RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]

[Devices subject to this condition : D104]

FACILITY PERMIT TO OPERATE AERA ENERGY LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

C1.2 The operator shall limit the operating time to no more than 200 hour(s) in any one year.

which includes no more than 34 hours in any one year for maintenance and testing purposes.

[RULE 1110.2, 11-14-1997; RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996; RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]

[Devices subject to this condition: D44, D149]

C1.3 The operator shall limit the throughput to no more than 500 cubic feet per minute.

For the purpose of this condition, throughput shall be defined as air flow rate to the thermal/catalytic oxidizer.

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

[Devices subject to this condition: C156]

C1.4 The operator shall limit the loading rate to no more than 9000 barrel(s) in any one day.

The operator shall use the existing LACT unit to monitor the daily tank truck loading volume and keep records of the daily loading during the tank truck loading operation.

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

[Devices subject to this condition: D166]

C1.5 The operator shall limit the loading rate to no more than 270,000 barrel(s) in any one month.

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

[Devices subject to this condition: D166]

FACILITY PERMIT TO OPERATE AERA ENERGY LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

C1.6 The operator shall limit the operating time to no more than 200-hour(s) in any one year.

which includes no more than 20 hours in any one year for maintenance and testing purposes.

The operation of the engine beyond the 20 hours per year allotted for engine maintenance and testing shall be allowed only in the event of a loss of grid power or 30 minutes prior to a rotating outage provided that the grid operator or electrical utility has ordered rotating outages in the control area where the engine is located or has indicated that it expects to issue such an order at a certain time, and the engine is located in a utility service block that is subject to the rotating outage.

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

[RULE 1110.2, 11-14-1997; RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996; RULE 1470, 6-1-2007; RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]

[Devices subject to this condition : D103]

C1.7 The operator shall limit the operating time to no more than 200 hour(s) in any one year.

which includes no more than 50 hours in any one year for maintenance and testing purposes.

The operation of the engine beyond the 50 hours per year allotted for engine maintenance and testing shall be allowed only in the event of a loss of grid power or 30 minutes prior to a rotating outage provided that the grid operator or electrical utility has ordered rotating outages in the control area where the engine is located or has indicated that it expects to issue such an order at a certain time, and the engine is located in a utility service block that is subject to the rotating outage.

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

[RULE 1110.2, 11-14-1997; RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996; RULE 1470, 6-1-2007; RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]

[Devices subject to this condition : D168]

FACILITY PERMIT TO OPERATE AERA ENERGY LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

- C6.1 The operator shall use this equipment in such a manner that the hydrocarbon concentration being monitored, as indicated below, does not exceed 4000 ppm.

The operator shall use a District approved Organic Vapor Analyzer (OVA) to monitor the VOC concentration at the inlet and outlet of the catalytic oxidizer. The 4000 ppm limit is applicable to the inlet of the catalytic oxidizer.

The operator shall calibrate the instrument used to monitor the parameter in ppmv hexane.

The operator shall monitor once every day for the first seven days and weekly thereafter.

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

[Devices subject to this condition : C156]

- C6.2 The operator shall use this equipment in such a manner that the hydrocarbon concentration being monitored, as indicated below, does not exceed 10000 ppm.

The operator shall use a District approved Organic Vapor Analyzer (OVA) to monitor the VOC concentration at the inlet and outlet of the oxidizer. The 10,000 ppm limit is applicable to the inlet of the thermal oxidizer.

The operator shall calibrate the instrument used to monitor the parameter in ppmv hexane.

The operator shall monitor once every day for the first seven days and weekly thereafter.

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

[Devices subject to this condition : C156]

FACILITY PERMIT TO OPERATE AERA ENERGY LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

- C6.3 The operator shall use this equipment in such a manner that the flow being monitored, as indicated below, does not exceed 570 CFM.

To comply with this condition, the operator shall install and maintain a(n) flow meter to accurately indicate the flow rate at the inlet of the thermal oxidizer.

The measuring device or gauge shall be accurate to within +/- percent. The accuracy of the device shall be verified once every 6 months.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

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

[Devices subject to this condition : C213]

- C6.4 The operator shall use this equipment in such a manner that the backpressure being monitored, as indicated below, does not exceed 18 inches water column.

To comply with this condition, the operator shall install and maintain a(n) differential pressure gauge to accurately indicate the differential pressure in the vapor return line.

[RULE 462, 5-14-1999]

[Devices subject to this condition : D167]

- C8.1 The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, is not less than 650 Deg F.

To comply with this condition, the operator shall install and maintain a(n) temperature reading device to accurately indicate the temperature at the inlet of the catalytic oxidizer.

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]

[Devices subject to this condition : C156]

FACILITY PERMIT TO OPERATE AERA ENERGY LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

C8.2 The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, is not less than 1400 Deg F.

To comply with this condition, the operator shall install and maintain a(n) temperature reading device to accurately indicate the temperature in the combustion chamber downstream of the flame in the thermal oxidizer.

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]

[Devices subject to this condition : C156]

C8.4 The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, is not less than 1400 Deg F.

To comply with this condition, the operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature at the point at least 8 feet down stream of the combustion box..

The measuring device or gauge shall be accurate to within +/- 30 degrees Fahrenheit. It shall be calibrated once every 12 months.

The operator shall install and maintain a continuous strip chart recorder to continuously record the parameter being monitored.

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

[Devices subject to this condition : C213]

D. Monitoring/Testing Requirements

D12.1 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, 11-14-1997; RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996; RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]

[Devices subject to this condition : D44, D103, D104, D149, D168]

FACILITY PERMIT TO OPERATE AERA ENERGY LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

- D12.2 The operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature of the 1) inlet gas stream to the amine contact tower and 2) inlet amine stream to the amine contact tower.

The measuring device or gauge shall be accurate to within plus or minus 5 percent. The accuracy of the device shall be verified once a month.

The operator shall also install and maintain an automatic temperature controller to monitor the DEA absorber approach temperature. This monitoring device shall be in operation at all times while the amine gas treating unit is in operation

The operator shall monitor and record daily, the inlet gas and amine stream temperatures. If the absorber approach temperature is below 10 degrees Fahrenheit, the operator shall make necessary corrective actions to bring the absorber approach temperature within the specified range within 4 hours of the exceedance

The absorber approach temperature is defined as the temperature differential between the inlet amine solution (higher temperature) and the inlet gas (lower temperature)

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

[Devices subject to this condition : D201]

- D12.3 The operator shall install and maintain a(n) pressure gauge to accurately indicate the pressure of the amine flash tank, V-1003.

The measuring device or gauge shall be accurate to within plus or minus 5 percent. It shall be calibrated once every 12 months.

The pressure gauge shall be in good operating condition at all times to indicate the backpressure of the flash tank in psig while the amine treating unit is in operation

The operator shall monitor and record daily for the first 30 days of operation and weekly thereafter, the operating backpressure in vessel V-1003

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

[Devices subject to this condition : D204]

FACILITY PERMIT TO OPERATE AERA ENERGY LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

- D12.4 The operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature of the the amine inlet line to reflux accumulator, V-1005.

This monitoring device shall be in operation at all times while the amine gas treating unit is in operation

The operator shall monitor and record daily, the temperature of unit V-1005

The operator shall maintain a temperature in Vessel V-1005 of 120 degrees Fahrenheit or lower

If the temperature in Vessel V-1005 is outside the range specified above, the operator shall make necessary corrective actions to bring the temperature within the specified range within 4 hours of the exceedance

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

[Devices subject to this condition : D211]

- D12.5 The operator shall install and maintain a(n) thermocouple or any other equivalent device to accurately indicate the presence of a flame at the pilot.

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]

[Devices subject to this condition : C81]

- D28.1 The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted at least once during the life of the permit.

The test shall be conducted to determine the PM emissions using District method 5.1 measured over a 60 minute averaging time period.

The test shall be conducted to demonstrate compliance with Rule 404.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : D104]

FACILITY PERMIT TO OPERATE AERA ENERGY LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

- D90.1 The operator shall monitor and record the amount of the process gas treated in the amine contact tower, T-1006, according to the following specifications:

The volume of gas processed by this unit shall not exceed monthly average of 4.0 mmscfd

The volume of gas recorded by the gas sales meter can be used to determine compliance with this requirement

If the volume of gas measured by the gas sales meter, which includes the gas treated in the amine treating unit plus additional gas that bypasses the amine treating unit, is 4.0 mmscfd or higher, the applicant shall install a dedicated gas meter at the inlet of the amine gas treating system to indicate in scf per day, the inlet flow rate of process gas to the amine system. The operator shall install the gas meter within 90 days of exceeding the specified limit above

The operator shall notify the AQMD in writing within 7 days of exceeding 4.0 mmscfd level

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

[Devices subject to this condition : D201]

- D90.2 The operator shall monitor and record the level of cloudiness and/or turbidity of the amine solution in the amine flash tank, V-1003, according to the following specifications:

Once per operating day for the first month of operation and weekly thereafter

A sample of circulating amine solution shall be obtained from V-1003 using a clean, dry, standard sample container

Using a timer, the sample shall be allowed to cool to room conditions for a period of 30 minutes

Using a standardized, clean, dry, laminated, cloud point test strip, the operator shall visually check sample cloudiness and/or turbidity by placing the test strip behind the sample container and record the relative sample visibility

In addition, the amine solution shall be sampled and analytically tested by an independent laboratory to determine VOC and benzene levels at least once every 60 operating days for the first year and yearly thereafter

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

[Devices subject to this condition : D204]

FACILITY PERMIT TO OPERATE AERA ENERGY LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

D135.1 The operator shall inspect, adjust, and certify the ignition or fuel injection timing of this engine a minimum of once every 1 years of operation. Inspections, adjustments, and certifications shall be performed by a qualified mechanic and performed in accordance with the engine manufacturer's specifications and procedures.

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

[Devices subject to this condition : D44, D103, D149, D168]

D323.1 The operator shall conduct an inspection for visible emissions from all stacks and other emission points of this equipment whenever there is a public complaint of visible emissions, whenever visible emissions are observed, and on a semi-annual basis, at least, unless the equipment did not operate during the entire semi-annual period. The routine semi-annual inspection shall be conducted while the equipment is in operation and during daylight hours.

If any visible emissions (not including condensed water vapor) are detected that last more than three minutes in any one hour, the operator shall verify and certify within 24 hours that the equipment causing the emission and any associated air pollution control equipment are operating normally according to their design and standard procedures and under the same conditions under which compliance was achieved in the past, and either:

- 1). Take corrective action(s) that eliminates the visible emissions within 24 hours and report the visible emissions as a potential deviation in accordance with the reporting requirements in Section K of this permit; or
- 2). Have a CARB-certified smoke reader determine compliance with the opacity standard, using EPA Method 9 or the procedures in the CARB manual "Visible Emission Evaluation", within three business days and report any deviations to AQMD.

The operator shall keep the records in accordance with the recordkeeping requirements in Section K of this permit and the following records:

- 1). Stack or emission point identification;
- 2). Description of any corrective actions taken to abate visible emissions;
- 3). Date and time visible emission was abated; and
- 4). All visible emission observation records by operator or a certified smoke reader.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : E160]

FACILITY PERMIT TO OPERATE AERA ENERGY LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

D323.2 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 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 that last more than three minutes in any one hour, the operator shall verify and certify within 24 hours that the equipment causing the emission and any associated air pollution control equipment are operating normally according to their design and standard procedures and under the same conditions under which compliance was achieved in the past, and either:

- 1). Take corrective action(s) that eliminates the visible emissions within 24 hours and report the visible emissions as a potential deviation in accordance with the reporting requirements in Section K of this permit; or
- 2). Have a CARB-certified smoke reader determine compliance with the opacity standard, using EPA Method 9 or the procedures in the CARB manual "Visible Emission Evaluation", within three business days and report any deviations to AQMD.

The operator shall keep the records in accordance with the recordkeeping requirements in Section K of this permit and the following records:

- 1). Stack or emission point identification;
- 2). Description of any corrective actions taken to abate visible emissions;
- 3). Date and time visible emission was abated; and
- 4). All visible emission observation records by operator or a certified smoke reader.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : D104]

E. Equipment Operation/Construction Requirements

FACILITY PERMIT TO OPERATE AERA ENERGY LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

E57.1 The operator shall vent this equipment to vapor recovery compressor whenever this equipment is operating.

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

[Devices subject to this condition : D10, D11, D12, D13, D14, D15, D17, D36, D40, D194, D215, D216, D217, D218, D219, D220]

E57.2 The operator shall vent this equipment to the plant vapor recovery system which is in full use and which has been permitted by the Executive officer whenever the tank truck loading is in operation.

[RULE 462, 5-14-1999]

[Devices subject to this condition : D167]

E71.1 The operator shall not use this equipment if there are overfills, fugitive liquid/vapor leaks or organic liquid leak during disconnect.

[RULE 462, 5-14-1999]

[Devices subject to this condition : D166]

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

[RULE 1470, 6-1-2007]

[Devices subject to this condition : D103, D168]

E127.1 The operator shall keep gauge/sample hatches closed except during actual gauging/sampling operations.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 463, 3-11-1994]

[Devices subject to this condition : D10, D11, D12, D13, D14, D15, D23, D24, D36, D215, D216, D217, D218, D219, D220]

FACILITY PERMIT TO OPERATE AERA ENERGY LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

E147.1 The operator shall only conduct crude oil loading in this equipment.

[RULE 462, 5-14-1999]

[Devices subject to this condition : D166]

E162.1 The operator shall use this equipment only during utility failure periods, except for maintenance purposes.

[RULE 1110.2, 11-14-1997]

[Devices subject to this condition : D103, D168]

E175.1 The operator shall not use this equipment unless all exhaust air passes through the following:

An APC system consisting of a thermal oxidizer, which is maintained at 1400 degrees fahrenheit

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

[Devices subject to this condition : D211]

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

The operator shall only use tank T-317 (device D14) if either tank T-318 (device D15) or tank T-350 (device D215) is not in operation

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

[Devices subject to this condition : D14]

E224.1 The operator shall replace the operating carbon canister by the spare carbon canister when H2S is detected in the effluent gas by the H2S monitor.

[RULE 402, 5-7-1976]

[Devices subject to this condition : C164, C165]

H. Applicable Rules

**FACILITY PERMIT TO OPERATE
 AERA ENERGY LLC**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

H23.1 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1173

[RULE 1173, 5-13-1994; RULE 1173, 12-6-2002]

[Devices subject to this condition : D76, D77, D78, D108, D113]

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

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1122

[RULE 1122, 7-11-1997]

[Devices subject to this condition : E161]

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

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1176

[RULE 1176, 9-13-1996]

[Devices subject to this condition : D41, D112, D216, D217]

FACILITY PERMIT TO OPERATE AERA ENERGY LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1176
VOC	District Rule	1149

[RULE 1149, 7-14-1995; RULE 1176, 9-13-1996]

[Devices subject to this condition : D17, D23, D24, D40]

H23.5 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	463
VOC	District Rule	1149

[RULE 1149, 7-14-1995; RULE 463, 3-11-1994]

[Devices subject to this condition : D10, D11, D12, D13, D14, D15, D215, D218, D219]

H23.7 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	464
VOC	District Rule	1176

[RULE 1176, 9-13-1996; RULE 464, 12-7-1990]

[Devices subject to this condition : D36]

FACILITY PERMIT TO OPERATE AERA ENERGY LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

H23.8 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
PM	District Rule	481

[RULE 481, 11-17-2000; RULE 481, 1-11-2002]

[Devices subject to this condition : E158]

H23.9 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	462

[RULE 461, 4-21-2000; RULE 461, 6-15-2001]

[Devices subject to this condition : D166]

I. Administrative

FACILITY PERMIT TO OPERATE AERA ENERGY LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

- I296.1 This equipment shall not be operated unless the operator demonstrates to the Executive Officer that the facility holds sufficient RTCs to offset the prorated annual emissions increase for the first compliance year of operation. In addition, this equipment shall not be operated unless the operator demonstrates to the Executive Officer that, at the commencement of each compliance year after the first compliance year of operation, the facility holds sufficient RTCs in an amount equal to the annual emissions increase.

To comply with this condition, the operator shall, prior to beginning of a compliance year, hold a minimum of 613 pounds of NOx RTCs for operation of the thermal-oxidizer at the facility. In accordance with Rule 2005 (f), unused RTCs may be sold only during the reconciliation period for the fourth quarter of the applicable compliance year inclusive of the 1st year.

[RULE 2005, 4-9-1999; RULE 2005, 4-20-2001; RULE 2012, 12-5-2003; RULE 2012, 1-7-2005]

[Devices subject to this condition : C213]

- I296.2 This equipment shall not be operated unless the operator demonstrates to the Executive Officer that the facility holds sufficient RTCs to offset the prorated annual emissions increase for the first compliance year of operation. In addition, this equipment shall not be operated unless the operator demonstrates to the Executive Officer that, at the commencement of each compliance year after the first compliance year of operation, the facility holds sufficient RTCs in an amount equal to the annual emissions increase.

To comply with this condition, the operator shall, prior to beginning of a compliance year, hold a minimum of 350 pounds of NOx RTCs for operation of the re-boiler at the facility. In accordance with Rule 2005 (f), unused RTCs may be sold only during the reconciliation period for the fourth quarter of the applicable compliance year inclusive of the 1st year.

[RULE 2005, 4-9-1999; RULE 2005, 4-20-2001; RULE 2012, 12-5-2003; RULE 2012, 1-7-2005]

[Devices subject to this condition : D209]

K. Record Keeping/Reporting

FACILITY PERMIT TO OPERATE AERA ENERGY LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

K67.1 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Date of Operation

The Elapsed Time in Hours

Reason for Operation

[RULE 1110.2, 11-14-1997; RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996; RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]

[Devices subject to this condition : D44, D103, D149, D168]

K67.2 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

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 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : E158]

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

Daily Tank Truck Throughput

[RULE 462, 5-14-1999]

[Devices subject to this condition : D166]

FACILITY PERMIT TO OPERATE AERA ENERGY LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

K67.4 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

carbon canister change over, date and H2S monitor reading at the time of change over

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : C164; C165]

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

temperature of the Tank T-317

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

[Devices subject to this condition : D14]