



South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

June 28, 2013

Mr. Noel Kurai
Environmental Coordinator
Equilon Ent. LLC, Signal Hill Terminal
20945 S Wilmington, Ave
Carson, CA 90810

Subject: Title V Facility Revision

REFERENCE: SCAQMD Facility ID No.116931, Equilon Ent. LLC, Signal Hill Terminal
Title V Facility Permit, Section D - Revision No.4,
Section H - Revision No.3, Section I - Revision No.1

Dear Mr. Kurai:

Attached is a Permit Revision to your Title V Facility Permit. This revision includes the following sections:

- Title page and Table of Contents – Revision 4, June 28, 2013
- Section D - Revision 4, June 28, 2013
- Section H - Revision 3, June 28, 2013
- Section I - Revision 1, June 28, 2013

The following applications reflect the approval of applications for permits to operate (PC to PO), or Administrative Permit Revisions of the Title V permit.

SECTION D - PERMIT TO OPERATE

Appl. No.	Action	Description	Permit No.
393504	PC to PO	Issue final permit for modification of Bulk Loading Rack No.1.	G25256
393505	PC to PO	Issue final permit for modification of Bulk Loading Rack No.2.	G25265
393506	PC to PO	Issue final permit for modification of Bulk Loading Rack No.3.	G25268
426948	PC to PO	Issue final permit for change of conditions for Storage tank.	G25270
474019	PC to PO	Issue final permit for modification of Storage tank	G25271
346031	Removed	Superseded by A/N 393506	F16850
346032	Removed	Superseded by A/N 393504	F16846
346033	Removed	Superseded by A/N 393505	F16851
379785	Removed	Superseded by A/N 426948	
417111	Removed	Superseded by A/N 474019	F63599

SECTION H - PERMIT TO CONSTRUCT

Appl. No.	Action	Description	
393504	Removed	Moved to Section D – PC to PO	
393505	Removed	Moved to Section D – PC to PO	
393506	Removed	Moved to Section D – PC to PO	
426948	Removed	Moved to Section D – PC to PO	
474019	Removed	Moved to Section D – PC to PO	

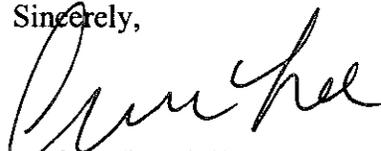
The following reflects a Minor Revision to Section I of the Title V Facility Permit with the inclusion of an approved plan. The proposed revision was submitted to EPA on May 2, 2013, for 45 day review. There were no comments.

SECTION I – COMPLIANCE PLANS

Appl. No.	Action	Description	
549349	Approved	Rule 462 Continuous Monitoring Plan	

Please review the attached pages and then insert the enclosed sections in your Title V Facility Permit, and discard the earlier versions. If you have any questions concerning changes to your permit, or if you determine any administrative error, please contact Ken Matsuda at (909) 396-2656, within 30 days of the receipt of your permit.

Sincerely,



Andrew Lee, P.E.

Sr. AQ Engineering Manager

AL:CDT:KKM

Enclosures

cc: Gerardo Rios w/ enclosure
Compliance
Title V Master File



FACILITY PERMIT TO OPERATE

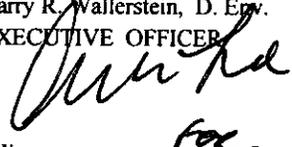
EQUILON ENT LLC, SHELL OIL PROD. U S
2457 REDONDO AVE
SIGNAL HILL, CA 90806

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. Eng.
EXECUTIVE OFFICER

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



FACILITY PERMIT TO OPERATE EQUILON ENT LLC, SHELL OIL PROD. U S

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Section	Description	Revision #	Date Issued
A	Facility Information	3	10/28/2011
B	RECLAIM Annual Emission Allocation	0	04/20/2009
C	Facility Plot Plan	TO BE DEVELOPED	
D	Facility Description and Equipment Specific Conditions	4	06/28/2013
E	Administrative Conditions	0	04/20/2009
F	RECLAIM Monitoring and Source Testing Requirements	0	04/20/2009
G	Recordkeeping and Reporting Requirements for RECLAIM Sources	0	04/20/2009
H	Permit To Construct and Temporary Permit to Operate	3	06/28/2013
I	Compliance Plans & Schedules	1	06/28/2013
J	Air Toxics	0	04/20/2009
K	Title V Administration	1	06/05/2009
Appendix			
A	NOx and SOx Emitting Equipment Exempt From Written Permit Pursuant to Rule 219	0	04/20/2009
B	Rule Emission Limits	0	04/20/2009



**FACILITY PERMIT TO OPERATE
EQUILON ENTERPRISES LLC, SIGNAL HILL TERMINAL**

**Facility Equipment and Requirements
(Section D)**

This section consists of a table listing all permitted equipment at the facility, facility wide requirements, all individual Permits to Operate issued to various equipment at the facility, and Rule 219-exempt equipment subject to source-specific requirements. Each permit and Rule 219-exempt equipment will list operating conditions including periodic monitoring requirements, and applicable emission limits and requirements. Also included are the rule origin and authority of each emission limit and permit condition.



**FACILITY PERMIT TO OPERATE
EQUILON ENTERPRISES LLC, SIGNAL HILL TERMINAL**

PERMITTED EQUIPMENT LIST

THE FOLLOWING IS A LIST OF ALL PERMITS TO OPERATE AT THIS FACILITY:

Application Number	Permit to Operate Number	Equipment Description	Page Number
346027	F16843	WASTE WATER HANDLING TREATMENT SYSTEM (<20000 GAL/DAY)	4
346030	F16845	STORAGE TANK NO. T-34, WASTE WATER	6
393504	G25256	BULK LOAD/UNLOAD RACK NO. 1 (>200,000 GPD) GASOLINE	8
393505	G25265	BULK LOAD/UNLOAD RACK NO. 2 (>200,000 GPD) GASOLINE	11
393506	G25268	BULK LOAD/UNLOAD RACK NO. 3 (>200,000 GPD) GASOLINE	14
404221	F98780	GROUNDWATER TREATMENT SYSTEM	17
420098	F63885	STORAGE TANK NO. SH-80, W/ EXT FLOAT ROOF GASOLINE	21
426948	G25270	STORAGE TANK NO. SH-300, W/ INT FLOAT ROOF GASOLINE	23
467025	F91445	STORAGE TANK NO. 380-S-1, W INT FLOAT ROOF GASOLINE	25
474019	G25271	STORAGE TANK NO. 100-S-17, W/ EXT FLOAT ROOF GASOLINE	27
505270	G15481	VAPOR RECOVERY SYSTEM	29

NOTE: ANY APPLICATIONS THAT ARE STILL BEING PROCESSED AND HAVE NOT BEEN ISSUED PERMITS TO CONSTRUCT OR PERMITS TO OPERATE WILL NOT BE FOUND IN THIS TITLE V PERMIT



**FACILITY PERMIT TO OPERATE
EQUILON ENTERPRISES LLC, SIGNAL HILL TERMINAL**

FACILITY WIDE CONDITION(S)

Condition(s):

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]
2. MATERIAL SAFETY DATA SHEETS FOR ALL COATINGS AND SOLVENTS USED AT THIS FACILITY SHALL BE KEPT CURRENT AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 109, 1303(b)(2)-OFFSET]
3. THE FACILITY SHALL COMPLY WITH THE APPLICABLE MINOR SOURCE REQUIREMENTS OF 40 CFR 63 SUBPART R.
[40 CFR 63 SUBPART R - MINOR SOURCES]
4. THE FACILITY SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF RULE 1173.
[RULE 1173]
5. THE FACILITY SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF 40 CFR 63 SUBPART BBBBBB.
[40 CFR 63 SUBPART BBBBBB]



**FACILITY PERMIT TO OPERATE
EQUILON ENTERPRISES LLC, SIGNAL HILL TERMINAL**

PERMIT TO OPERATE

**Permit No. F16843
A/N 346027**

Equipment Description:

WASTE WATER HANDLING SYSTEM CONSISTING OF:

1. LS-4 LIFT STATION, FIBERGLASS SUMP, DOUBLE WALL UNDERGROUND, COVERED LID, CAPACITY 1000 GALLONS WITH P-4 SPILL CONTROL SUBMERSIBLE PUMP, CENTRIFUGAL, 5 HP MOTOR, AND P-5 CONTACT WATER VANE PUMP, 10 HP MOTOR, SERVING THE LOADING RACK STRIP DRAINS.
2. LS-1/2/3 THREE LIFT STATIONS, FIBERGLASS DOUBLE WALL UNDERGROUND TANKS, 120 GALLON CAPACITY EACH WITH P-1, P-2 AND P-3 THREE LIFT STATION SUBMERSIBLE PUMPS, 1/3 HP MOTOR EACH SERVING THE TRUCK RACK VAPOR CONDENSATE DRAIN SYSTEM.
3. CPI OIL/WATER SEPARATOR, CAPACITY 1600 GALLONS, 3'-5" W. X 9'-0" L. X 12'-0" H., HINGED STEEL COVERS.
4. WATER TRANSFER PUMP P-9, CENTRIFUGAL, SINGLE MECHANICAL SEAL, 5 HP MOTOR.
5. SLOP TANK, DOUBLE WALL UNDERGROUND TANK, COVERED LID, 5'-0" DIA. X 20'-0" L., CAPACITY 4000 GALLONS.
6. SLOP PUMP P-8, POSITIVE DISPLACEMENT, SINGLE MECHANICAL SEAL, 5 HP MOTOR.
7. SUMP TANK, 5'-0" DIA. X 9' -0" H., CAPACITY 1500 GALLONS, VENTED TO THE ATMOSPHERE, WITH TWO SUBMERSIBLE PUMPS P-6/P-7, 7.5 HP MOTOR EACH.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL NOT BE USED TO RECEIVE EFFLUENT WATER CONTAINING MORE THAN 200 GALLONS A DAY OF ANY PETROLEUM PRODUCT OR MIXTURE OF PETROLEUM PRODUCT.
[RULE 1303(b)(2) - OFFSET]



**FACILITY PERMIT TO OPERATE
EQUILON ENTERPRISES LLC, SIGNAL HILL TERMINAL**

4. THE OPERATOR SHALL PERFORM ANNUAL INSPECTION OF ALL VALVES FOR LIQUID LEAK IN ACCORDANCE WITH RULE 466.1 AND SHALL REINSPECT WITHIN 90 DAYS AFTER ANY REPAIR. [RULE 466.1]

Periodic Monitoring: NONE

Emissions and Requirements:

5. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: RULE 464



**FACILITY PERMIT TO OPERATE
EQUILON ENTERPRISES LLC, SIGNAL HILL TERMINAL**

PERMIT TO OPERATE

Permit No. F16845
A/N 346030

Equipment Description:

STORAGE TANK T-34, WASTE WATER, CAPACITY 31,280 GALLONS, 24'-8" DIA. X 9'-3" H., FIXED ROOF, PASSIVELY VENTED TO A 21.5 POUND ACTIVATED CARBON CANISTER.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THE TANK SHALL NOT BE OPERATED UNLESS IT IS VENTED TO A VAPOR CONTROL UNIT CONSISTING OF ONE CANISTER CONTAINING AT LEAST 21.5 POUNDS OF ACTIVATED CARBON.
[RULE 1303(a)(1)-BACT]
4. ON A BI-MONTHLY BASIS, THE OPERATOR SHALL MONITOR AND RECORD HYDROCARBON CONCENTRATION AT THE EXIT TO THE ATMOSPHERE FROM THE CARBON CANISTER USING A MONITORING UNIT UTILIZING ONE OF THE FOLLOWING CONCEPTS:
 - A. DIFFUSION SENSORS
 - B. FLAME-IONIZATION SYSTEMS CALIBRATED WITH METHANE.
 - C. ULTRA-VIOLET IONIZATION SYSTEMS CALIBRATED WITH METHANE.RECORDS SHALL BE KEPT AND MAINTAINED FOR AT LEAST FIVE YEARS AND BE MADE AVAILABLE TO AUTHORIZED DISTRICT PERSONNEL UPON REQUEST.
[RULE 1303(b)(2) - OFFSET]
5. BREAKTHROUGH IS INDICATED BY A HYDROCARBON MONITOR READING OF 50 PPM AT THE EXIT FROM A CARBON CANISTER.
[RULE 1303(b)(2) - OFFSET]
6. IF BREAKTHROUGH OCCURS, THE CARBON CANISTER SHALL BE REPLACED IMMEDIATELY WITH AN IDENTICAL CANISTER CONTAINING FRESH ACTIVATED CARBON.
[RULE 1303(a)(1)-BACT, RULE 1303(b)(2) - OFFSET]
7. THIS TANK SHALL ONLY BE USED FOR STORING WASTEWATER.
[RULE 1303(b)(2) - OFFSET]



**FACILITY PERMIT TO OPERATE
EQUILON ENTERPRISES LLC, SIGNAL HILL TERMINAL**

Periodic Monitoring: NONE

Emissions and Requirements:

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: RULE 463
VOC: RULE 1149



**FACILITY PERMIT TO OPERATE
EQUILON ENTERPRISES LLC, SIGNAL HILL TERMINAL**

PERMIT TO OPERATE

**Permit No. G25256
A/N 393504**

Equipment Description:

BULK FUEL LOADING RACK NO. 1, CONSISTING OF:

1. SIX BOTTOM LOADING ASSEMBLIES WITH 4" BOTTOM LOADING COUPLERS.
2. SIX PRODUCT METERS.
3. TWO VAPOR RECOVERY ARMS, 4" DIAMETER, CONNECTED TO VAPOR RECOVERY UNIT.
4. SIX LOADING PUMPS, MECHANICAL SEALS, 60-HP EACH, COMMON TO BULK LOADING RACKS NOS. 1, 2, AND 3.
5. TWO ADDITIVE INJECTION PUMPS (WITH ONE SPARE), ROTARY TYPE OR EQUIVALENT, WITH MAGNETIC DRIVE PUMPS, 2-HP EACH, COMMON TO BULK LOADING RACKS NOS. 1, 2, AND 3.
6. ONE ETHANOL METERING SKID CONSISTING OF FOUR 1.5" TURBINE METER, FOUR 2" CONTROL VALVES AND STRAINERS.
7. TWO ETHANOL LOADING PUMPS, CENTRIFUGAL, 30 HP, EACH WITH DOUBLE MECHANICAL SEALS, COMMON TO LOADING RACKS 1,2, AND 3.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED A PERMIT TO OPERATE.
[RULE 1303(a)(1)-BACT, RULE 462]



**FACILITY PERMIT TO OPERATE
EQUILON ENTERPRISES LLC, SIGNAL HILL TERMINAL**

4. THE OPERATOR SHALL LIMIT THE LOADING RATE OF TOTAL VOLUME OF PRODUCTS TO NO MORE THAN 1,800,000 GALLONS PER DAY. THE LIMIT SHALL APPLY TO THE TOTAL COMBINED LOADING RATE FOR ALL THREE LOADING RACKS NOS. 1, 2, AND 3.
[RULE 462]
5. MATERIALS LOADED SHALL CONSIST OF PETROLEUM PRODUCTS HAVING A TRUE VAPOR PRESSURE NOT TO EXCEED 11 PSIA INCLUDING BUT NOT LIMITED TO GASOLINE, GASOLINE ADDITIVES, OXYGENATES (INCLUDING DENATURED ETHANOL), DIESEL AND OTHER DISTILLATE FUELS (INCLUDING BIODIESEL AND SYNTHETIC FUELS).
[RULE 463]
6. THE OPERATOR SHALL LIMIT THE LOADING RATE TO NO MORE THAN 2,118,404 GALLONS PER DAY. THE LIMIT SHALL APPLY TO THE TOTAL COMBINED LOADING RATE FOR ALL THREE LOADING RACKS NOS. 1, 2, AND 3.
[RULE 1303(b)(2) – OFFSET, RULE 1313(g) –EMISSION LIMITATION]
7. THE CONTINUOUS HYDROCARBON MONITORING SYSTEM SHALL BE IN FULL USE AT ALL TIMES AND SHALL ALERT THE OPERATOR BOTH AUDIBLE AND VISUALLY TO PREVENT HYDROCARBON BREAKTHROUGH. THE ALARM SHALL BE SET TO ACTIVATE AT A HYDROCARBON EMISSION RATE OF 0.065 POUND HYDROCARBON PER 1,000 GALLONS.
[RULE 1303(a)(1) – BACT, RULE 1303(b)(2) – OFFSET]
8. IN ADDITION TO THE RECORDS REQUIRED IN RULE 462, THE LOADING THROUGHPUT RECORD SHALL BE MAINTAINED FOR FIVE YEARS IN A FORMAT APPROVED BY THE DISTRICT AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1303(b)(2) – OFFSET]
9. THE FOLLOWING BACT REQUIREMENTS SHALL APPLY TO NEW VOC SERVICE FUGITIVE COMPONENTS ASSOCIATED WITH THE DEVICES THAT ARE COVERED BY THIS PERMIT TO CONSTRUCT. ALL VALVES SHALL BE BELLOW-SEAL VALVES, EXCEPT IN THE FOLLOWING APPLICATIONS: VALVES IN HEAVY LIQUID SERVICE, CONTROL VALVES, INSTRUMENT PIPING/TUBING VALES, VALVES REQUIRING TORSIONAL STEM MOTION, SITUATIONS WHERE VALVE FAILURE COULD POSE SAFETY HAZARD (E.G. DRAIN VALVES WITH VALVE STEMS IN HORIZONTAL POSITION), RETROFITS/SPECIAL APPLICATION VALVES WITH SPACE LIMITATION, AND VALVES NOT COMMERCIALY AVAILABLE. THE DISTRICT SHALL APPROVE ALL EXCEPTIONS TO THIS REQUIREMENT. ALL VALVES AND NEW MAJOR COMPONENTS SHALL BE PHYSICALLY IDENTIFIED IN THE FIELD WITH SPECIAL MARKINGS THAT DISTINGUISH THE COMPONENTS FROM NON-BACT COMPONENTS. ADDITIONALLY, ALL NEW COMPONENTS SHALL BE IDENTIFIED AS BACT COMPONENTS IN THE RECORD.

ALL FUGITIVE COMPONENTS IN VOC SERVICE, EXCEPT THOSE SPECIFICALLY EXEMPTED IN RULE 1173, SHALL BE INSPECTED MONTHLY USING EPA REFERENCE METHOD 21.

ALL COMPONENTS IN VOC SERVICE, WITH LEAK GREATER THAN 500 PPM BUT LESS THAN 1000 PPM MEASURED AS METHANE ABOVE BACKGROUND USING EPA REFERENCE METHOD 21 SHALL BE REPAIRED WITHIN 14 DAYS OF DETECTION. A LEAK OF 1,000 PPM OR GREATER SHALL BE REPAIRED ACCORDING TO RULE 1173.



FACILITY PERMIT TO OPERATE EQUILON ENTERPRISES LLC, SIGNAL HILL TERMINAL

RECORDS OF MONTHLY INSPECTION, SUBSEQUENT REPAIRS AND REINSPECTIONS, IF ANY, SHALL BE MAINTAINED FOR FIVE YEARS IN A FORMAT APPROVED BY THE DISTRICT, AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1173, RULE 1303(a)(1)-BACT]

Periodic Monitoring:

10. THE OPERATOR SHALL CONDUCT SOURCE TEST(S) IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:

THE TEST SHALL BE CONDUCTED AT LEAST ONCE EVERY THREE YEARS.

THE TEST SHALL BE CONDUCTED TO DETERMINE THE BULK LOADING RATE IN GALLONS PER HOUR DURING THE SOURCE TEST.

THE TEST SHALL BE CONDUCTED TO DETERMINE THE VOC EMISSION RATE IN POUNDS PER 1,000 GALLONS LOADED.

[RULE 1303(a)(1)-BACT, RULE 3004(a)(4) – PERIODIC MONITORING]

Emissions and Requirements:

11. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: 0.08 LB/1000 GAL. ORGANIC LIQUID, RULE 462

VOC: 0.065 LB/1000 GAL. ORGANIC LIQUID, RULE 1303(a)(1) – BACT, RULE 1313(g)
EMISSION LIMITATION



**FACILITY PERMIT TO OPERATE
EQUILON ENTERPRISES LLC, SIGNAL HILL TERMINAL**

PERMIT TO OPERATE

**Permit No. G25265
A/N 393505**

Equipment Description:

BULK FUEL LOADING RACK NO. 2, CONSISTING OF:

1. SIX BOTTOM LOADING ASSEMBLIES WITH 4" BOTTOM LOADING COUPLERS.
2. SIX PRODUCT METERS.
3. TWO VAPOR RECOVERY ARMS, 4" DIAMETER, CONNECTED TO VAPOR RECOVERY UNIT.
4. SIX LOADING PUMPS, MECHANICAL SEALS, 60-HP EACH, COMMON TO BULK LOADING RACKS NOS. 1, 2, AND 3.
5. TWO ADDITIVE INJECTION PUMPS (WITH ONE SPARE), ROTARY TYPE OR EQUIVALENT, WITH MAGNETIC DRIVE PUMPS, 2-HP EACH, COMMON TO BULK LOADING RACKS NOS. 1, 2, AND 3.
6. ONE ETHANOL METERING SKID CONSISTING OF FOUR 1.5" TURBINE METER, FOUR 2" CONTROL VALVES AND STRAINERS.
7. TWO ETHANOL LOADING PUMPS, CENTRIFUGAL, 30 HP, EACH WITH DOUBLE MECHANICAL SEALS, COMMON TO LOADING RACKS 1,2, AND 3.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED A PERMIT TO OPERATE.
[RULE 1303(a)(1)-BACT, RULE 462]



FACILITY PERMIT TO OPERATE EQUILON ENTERPRISES LLC, SIGNAL HILL TERMINAL

4. THE OPERATOR SHALL LIMIT THE LOADING RATE OF TOTAL VOLUME OF PRODUCTS TO NO MORE THAN 1,800,000 GALLONS PER DAY. THE LIMIT SHALL APPLY TO THE TOTAL COMBINED LOADING RATE FOR ALL THREE LOADING RACKS NOS. 1, 2, AND 3.
[RULE 462]
5. MATERIALS LOADED SHALL CONSIST OF PETROLEUM PRODUCTS HAVING A TRUE VAPOR PRESSURE NOT TO EXCEED 11 PSIA INCLUDING BUT NOT LIMITED TO GASOLINE, GASOLINE ADDITIVES, OXYGENATES (INCLUDING DENATURED ETHANOL), DIESEL AND OTHER DISTILLATE FUELS (INCLUDING BIODIESEL AND SYNTHETIC FUELS).
[RULE 463]
6. THE OPERATOR SHALL LIMIT THE LOADING RATE TO NO MORE THAN 2,118,404 GALLONS PER DAY. THE LIMIT SHALL APPLY TO THE TOTAL COMBINED LOADING RATE FOR ALL THREE LOADING RACKS NOS. 1, 2, AND 3.
[RULE 1303(b)(2) – OFFSET, RULE 1313(g) –EMISSION LIMITATION]
7. THE CONTINUOUS HYDROCARBON MONITORING SYSTEM SHALL BE IN FULL USE AT ALL TIMES AND SHALL ALERT THE OPERATOR BOTH AUDIBLE AND VISUALLY TO PREVENT HYDROCARBON BREAKTHROUGH. THE ALARM SHALL BE SET TO ACTIVATE AT A HYDROCARBON EMISSION RATE OF 0.065 POUND HYDROCARBON PER 1,000 GALLONS.
[RULE 1303(a)(1) – BACT, RULE 1303(b)(2) – OFFSET]
8. IN ADDITION TO THE RECORDS REQUIRED IN RULE 462, THE LOADING THROUGHPUT RECORD SHALL BE MAINTAINED FOR FIVE YEARS IN A FORMAT APPROVED BY THE DISTRICT AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1303(b)(2) – OFFSET]
9. THE FOLLOWING BACT REQUIREMENTS SHALL APPLY TO NEW VOC SERVICE FUGITIVE COMPONENTS ASSOCIATED WITH THE DEVICES THAT ARE COVERED BY THIS PERMIT TO CONSTRUCT. ALL VALVES SHALL BE BELLOW-SEAL VALVES, EXCEPT IN THE FOLLOWING APPLICATIONS: VALVES IN HEAVY LIQUID SERVICE, CONTROL VALVES, INSTRUMENT PIPING/TUBING VALES, VALVES REQUIRING TORSIONAL STEM MOTION, SITUATIONS WHERE VALVE FAILURE COULD POSE SAFETY HAZARD (E.G. DRAIN VALVES WITH VALVE STEMS IN HORIZONTAL POSITION), RETROFITS/SPECIAL APPLICATION VALVES WITH SPACE LIMITATION, AND VALVES NOT COMMERCIALY AVAILABLE. THE DISTRICT SHALL APPROVE ALL EXCEPTIONS TO THIS REQUIREMENT. ALL VALVES AND NEW MAJOR COMPONENTS SHALL BE PHYSICALLY IDENTIFIED IN THE FIELD WITH SPECIAL MARKINGS THAT DISTINGUISH THE COMPONENTS FROM NON-BACT COMPONENTS. ADDITIONALLY, ALL NEW COMPONENTS SHALL BE IDENTIFIED AS BACT COMPONENTS IN THE RECORD.

ALL FUGITIVE COMPONENTS IN VOC SERVICE, EXCEPT THOSE SPECIFICALLY EXEMPTED IN RULE 1173, SHALL BE INSPECTED MONTHLY USING EPA REFERENCE METHOD 21.

ALL COMPONENTS IN VOC SERVICE, WITH LEAK GREATER THAN 500 PPM BUT LESS THAN 1000 PPM MEASURED AS METHANE ABOVE BACKGROUND USING EPA REFERENCE METHOD 21 SHALL BE REPAIRED WITHIN 14 DAYS OF DETECTION. A LEAK OF 1,000 PPM OR GREATER SHALL BE REPAIRED ACCORDING TO RULE 1173.



**FACILITY PERMIT TO OPERATE
EQUILON ENTERPRISES LLC, SIGNAL HILL TERMINAL**

RECORDS OF MONTHLY INSPECTION, SUBSEQUENT REPAIRS AND REINSPECTIONS, IF ANY, SHALL BE MAINTAINED FOR FIVE YEARS IN A FORMAT APPROVED BY THE DISTRICT, AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1173, RULE 1303(a)(1)-BACT]

Periodic Monitoring:

10. THE OPERATOR SHALL CONDUCT SOURCE TEST(S) IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:

THE TEST SHALL BE CONDUCTED AT LEAST ONCE EVERY THREE YEARS.

THE TEST SHALL BE CONDUCTED TO DETERMINE THE BULK LOADING RATE IN GALLONS PER HOUR DURING THE SOURCE TEST.

THE TEST SHALL BE CONDUCTED TO DETERMINE THE VOC EMISSION RATE IN POUNDS PER 1,000 GALLONS LOADED.

[RULE 1303(a)(1)-BACT, RULE 3004(a)(4) – PERIODIC MONITORING]

Emissions and Requirements:

11. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: 0.08 LB/1000 GAL. ORGANIC LIQUID, RULE 462

VOC: 0.065 LB/1000 GAL. ORGANIC LIQUID, RULE 1303(a)(1) – BACT, RULE 1313(g) – EMISSION LIMITATION



FACILITY PERMIT TO OPERATE EQUILON ENTERPRISES LLC, SIGNAL HILL TERMINAL

PERMIT TO OPERATE

Permit No. G25268
A/N 393506

Equipment Description:

BULK FUEL LOADING RACK NO. 3, CONSISTING OF:

1. SIX BOTTOM LOADING ASSEMBLIES WITH 4" BOTTOM LOADING COUPLERS.
2. SIX PRODUCT METERS.
3. TWO VAPOR RECOVERY ARMS, 4" DIAMETER, CONNECTED TO VAPOR RECOVERY UNIT.
4. SIX LOADING PUMPS, MECHANICAL SEALS, 60-HP EACH, COMMON TO BULK LOADING RACKS NOS. 1, 2, AND 3.
5. TWO ADDITIVE INJECTION PUMPS (WITH ONE SPARE), ROTARY TYPE OR EQUIVALENT, WITH MAGNETIC DRIVE PUMPS, 2-HP EACH, COMMON TO BULK LOADING RACKS NOS. 1, 2, AND 3.
6. ONE ETHANOL METERING SKID CONSISTING OF FOUR 1.5" TURBINE METER, FOUR 2" CONTROL VALVES AND STRAINERS.
7. TWO ETHANOL LOADING PUMPS, CENTRIFUGAL, 30 HP, EACH WITH DOUBLE MECHANICAL SEALS, COMMON TO LOADING RACKS 1,2, AND 3.
8. TWO ETHANOL UNLOADING PUMPS, CENTRIFUGAL, 25 HP, EACH WITH DOUBLE MECHANICAL SEALS.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED A PERMIT TO OPERATE.
[RULE 1303(a)(1)-BACT, RULE 462]



FACILITY PERMIT TO OPERATE EQUILON ENTERPRISES LLC, SIGNAL HILL TERMINAL

4. THE OPERATOR SHALL LIMIT THE LOADING RATE OF TOTAL VOLUME OF PRODUCTS TO NO MORE THAN 1,800,000 GALLONS PER DAY. THE LIMIT SHALL APPLY TO THE TOTAL COMBINED LOADING RATE FOR ALL THREE LOADING RACKS NOS. 1, 2, AND 3.
[RULE 462]
5. MATERIALS LOADED SHALL CONSIST OF PETROLEUM PRODUCTS HAVING A TRUE VAPOR PRESSURE NOT TO EXCEED 11 PSIA INCLUDING BUT NOT LIMITED TO GASOLINE, GASOLINE ADDITIVES, OXYGENATES (INCLUDING DENATURED ETHANOL), DIESEL AND OTHER DISTILLATE FUELS (INCLUDING BIODIESEL AND SYNTHETIC FUELS).
[RULE 463]
6. THE OPERATOR SHALL LIMIT THE LOADING RATE TO NO MORE THAN 2,118,404 GALLONS PER DAY. THE LIMIT SHALL APPLY TO THE TOTAL COMBINED LOADING RATE FOR ALL THREE LOADING RACKS NOS. 1, 2, AND 3.
[RULE 1303(b)(2) – OFFSET, RULE 1313(g) –EMISSION LIMITATION]
7. THE CONTINUOUS HYDROCARBON MONITORING SYSTEM SHALL BE IN FULL USE AT ALL TIMES AND SHALL ALERT THE OPERATOR BOTH AUDIBLE AND VISUALLY TO PREVENT HYDROCARBON BREAKTHROUGH. THE ALARM SHALL BE SET TO ACTIVATE AT A HYDROCARBON EMISSION RATE OF 0.065 POUND HYDROCARBON PER 1,000 GALLONS.
[RULE 1303(a)(1) – BACT, RULE 1303(b)(2) – OFFSET]
8. IN ADDITION TO THE RECORDS REQUIRED IN RULE 462, THE LOADING THROUGHPUT RECORD SHALL BE MAINTAINED FOR FIVE YEARS IN A FORMAT APPROVED BY THE DISTRICT AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1303(b)(2) – OFFSET]
9. THE FOLLOWING BACT REQUIREMENTS SHALL APPLY TO NEW VOC SERVICE FUGITIVE COMPONENTS ASSOCIATED WITH THE DEVICES THAT ARE COVERED BY THIS PERMIT TO CONSTRUCT. ALL VALVES SHALL BE BELLOW-SEAL VALVES, EXCEPT IN THE FOLLOWING APPLICATIONS: VALVES IN HEAVY LIQUID SERVICE, CONTROL VALVES, INSTRUMENT PIPING/TUBING VALES, VALVES REQUIRING TORSIONAL STEM MOTION, SITUATIONS WHERE VALVE FAILURE COULD POSE SAFETY HAZARD (E.G. DRAIN VALVES WITH VALVE STEMS IN HORIZONTAL POSITION), RETROFITS/SPECIAL APPLICATION VALVES WITH SPACE LIMITATION, AND VALVES NOT COMMERCIALY AVAILABLE. THE DISTRICT SHALL APPROVE ALL EXCEPTIONS TO THIS REQUIREMENT. ALL VALVES AND NEW MAJOR COMPONENTS SHALL BE PHYSICALLY IDENTIFIED IN THE FIELD WITH SPECIAL MARKINGS THAT DISTINGUISH THE COMPONENTS FROM NON-BACT COMPONENTS. ADDITIONALLY, ALL NEW COMPONENTS SHALL BE IDENTIFIED AS BACT COMPONENTS IN THE RECORD.

ALL FUGITIVE COMPONENTS IN VOC SERVICE, EXCEPT THOSE SPECIFICALLY EXEMPTED IN RULE 1173, SHALL BE INSPECTED MONTHLY USING EPA REFERENCE METHOD 21.

ALL COMPONENTS IN VOC SERVICE, WITH LEAK GREATER THAN 500 PPM BUT LESS THAN 1000 PPM MEASURED AS METHANE ABOVE BACKGROUND USING EPA REFERENCE METHOD 21 SHALL BE REPAIRED WITHIN 14 DAYS OF DETECTION. A LEAK OF 1,000 PPM OR GREATER SHALL BE REPAIRED ACCORDING TO RULE 1173.



**FACILITY PERMIT TO OPERATE
EQUILON ENTERPRISES LLC, SIGNAL HILL TERMINAL**

RECORDS OF MONTHLY INSPECTION, SUBSEQUENT REPAIRS AND REINSPECTIONS, IF ANY, SHALL BE MAINTAINED FOR FIVE YEARS IN A FORMAT APPROVED BY THE DISTRICT, AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1173, RULE 1303(a)(1)-BACT]

Periodic Monitoring:

10. THE OPERATOR SHALL CONDUCT SOURCE TEST(S) IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:

THE TEST SHALL BE CONDUCTED AT LEAST ONCE EVERY THREE YEARS.

THE TEST SHALL BE CONDUCTED TO DETERMINE THE BULK LOADING RATE IN GALLONS PER HOUR DURING THE SOURCE TEST.

THE TEST SHALL BE CONDUCTED TO DETERMINE THE VOC EMISSION RATE IN POUNDS PER 1,000 GALLONS LOADED.

[RULE 1303(a)(1)-BACT, RULE 3004(a)(4) – PERIODIC MONITORING]

Emissions and Requirements:

11. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: 0.08 LB/1000 GAL. ORGANIC LIQUID, RULE 462

VOC: 0.065 LB/1000 GAL. ORGANIC LIQUID, RULE 1303(a)(1) – BACT, RULE 1313(g) – EMISSION LIMITATION



**FACILITY PERMIT TO OPERATE
EQUILON ENTERPRISES LLC, SIGNAL HILL TERMINAL**

PERMIT TO OPERATE

**Permit No. F98780
A/N 404221**

Equipment Description:

GROUND WATER TREATMENT SYSTEM CONSISTING OF:

1. WELLS.
2. OIL/WATER SEPARATOR, 3'-3" W. X 4'-10" L. X 2'-10" H., TOP SEALED.
3. SKIMMED OIL STORAGE TANK, 2'-6" W. X 3'-2" L. X 3'-0" H., 120 GALLON CAPACITY, VENTED TO A BIOREACTOR.
4. PUMP OUT TANK, 300 GALLON CAPACITY.
5. AIR BLOWER, 90 CFM MAXIMUM FLOW RATE.
6. NUTRIENT VESSEL, 2'-6" W. X 4'-6" H. 165 GALLON CAPACITY.
7. NUTRIENT PUMP, ELECTROMAGNETIC PULSE MOTOR.
8. BIOREACTOR, 8'-6" W. X 20'-0" L. X 9'-6" H., 10,000 GALLON CAPACITY INFUSER, CONSISTING OF TWO BIOCELLS WITH FIXED FILM MEDIA, AIR SPARGING TUBES, AND EFFLUENT PUMP OUT TANK.
9. BAG FILTERS (TWO) AND LIQUID PHASE CARBON ADSORPTION SYSTEM CONSISTING OF THREE CARBON VESSELS IN SERIES 1,000 POUNDS EACH.
10. LIQUID PHASE METALS FILTERS.
11. VAPOR PHASE CARBON ADSORPTION SYSTEM CONSISTING OF ONE 55 GALLON KNOCKOUT DRUM AND TWO CARBON ADSORBERS IN SERIES, EACH CONTAINING AT LEAST 200 POUNDS OF GRANULAR ACTIVATED CARBON.
12. INFLUENT, EFFLUENT AND RECYCLE PUMPS.
13. AIR COMPRESSOR.
14. TWO BAKER TANKS.
15. EXHAUST STACK, 12 FEET ABOVE GRADE, WITHOUT WEATHER CAP.

Conditions:



FACILITY PERMIT TO OPERATE EQUILON ENTERPRISES LLC, SIGNAL HILL TERMINAL

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS ALL GASES ARE VENTED ONLY TO AIR POLLUTION CONTROL EQUIPMENT CONSISTING OF TWO CARBON ADSORBERS IN SERIES, EACH CONTAINING AT LEAST 200 POUNDS OF GRANULAR ACTIVATED CARBON.
[RULE 1303(a)(1)-BACT, RULE 1303(b)(2)-OFFSET]
4. PRIOR TO DISCONNECTING THE EXTRACTION WELLS TO THE BIOREACTOR THE WELLS SHALL BE CAPPED TO PREVENT VAPORS FROM VENTING TO THE ATMOSPHERE.
[RULE 1303(a)(1)-BACT, RULE 1303(b)(2)-OFFSET]
5. THE GROUNDWATER INFLUENT TO THE BIOREACTOR VESSEL SHALL BE SAMPLED AND ANALYZED ON THE FOLLOWING SCHEDULE:

WEEKLY FOR THE FIRST TWO WEEKS
QUARTERLY FROM THE SECOND MONTH UNTIL THE REMEDIATION IS COMPLETE.
[RULE 1303(b)(2)-OFFSET]
6. A FLOW INDICATOR SHALL BE INSTALLED AND MAINTAINED AT THE AIR SPARGING INLET OF THE PRIMARY CARBON ADSORBER TO MEASURE THE TOTAL FLOW RATE IN CUBIC FEET PER MINUTE (CFM). SUCH FLOW RATES SHALL NOT EXCEED 90 CFM. THIS FLOW RATE SHALL BE MEASURED AND RECORDED DURING EACH MONITORING VISIT.
[RULE 1303(b)(2)-OFFSET]
7. VOLATILE ORGANIC COMPOUNDS (VOC) CONCENTRATION SHALL BE MEASURED AT THE INLET OF THE PRIMARY ADSORBER(S) AND AT THE EXIT OF THE SECONDARY ADSORBER(S) BY USING A FLAME IONIZATION DETECTOR (FID), A PHOTO IONIZATION DETECTOR (PID), OR A DISTRICT APPROVED ORGANIC VAPOR ANALYZER ON A DAILY BASIS FOR THE FIRST WEEK, ON A WEEKLY BASIS FOR FIRST QUARTER, AND THEREAFTER MONTHLY. THE ANALYZER SHALL MEET EPA METHOD 21 REQUIREMENTS. THE DETECTOR SHALL BE CALIBRATED DURING EACH MONITORING VISIT.
[RULE 1303(b)(2)-OFFSET]
8. ALL RECORDS REQUIRED TO DEMONSTRATE COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT SHALL BE MAINTAINED FOR A MINIMUM OF FIVE YEARS AND SHALL BE MADE AVAILABLE TO THE AQMD PERSONNEL UPON REQUEST.
[RULE 1303(b)(2)-OFFSET]
9. ALL SPENT CARBON SHALL BE KEPT IN A VAPOR TIGHT CONTAINER AND SHALL BE DISPOSED AT AN APPROVED HAZARDOUS WASTE SITE OR TO A LICENSED RECYCLING FACILITY. THE OPERATOR SHALL KEEP A RECORD OF ALL DISPOSAL ACTIVITIES.
[RULE 1303(a)(1)-BACT]



FACILITY PERMIT TO OPERATE EQUILON ENTERPRISES LLC, SIGNAL HILL TERMINAL

10. A FLOW METER AND TOTALIZER SHALL BE INSTALLED AND MAINTAINED TO MEASURE THE TOTAL FLOW RATE OF CONTAMINATED GROUNDWATER PROCESSED IN THE EQUIPMENT. THIS EQUIPMENT SHALL NOT PROCESS MORE THAN 43,200 GALLONS PER DAY OF CONTAMINATED GROUNDWATER.
[RULE 1303(b)(2)-OFFSET]
11. VAPORS EXTRACTED OR TREATED BY THIS EQUIPMENT SHALL NOT CONTAIN ANY CARCINOGENIC AIR CONTAMINANTS AS IDENTIFIED IN RULE 1401, TABLE 1 AS AMENDED MARCH 4, 2005 WITH THE EXCEPTION OF CHEMICALS LISTED IN CONDITION NO. 12.
[RULE 1401]
12. THE EMISSIONS OF THE FOLLOWING CHEMICALS AT THE OUTLET OF THE VAPOR PHASE CARBON ADSORPTION SYSTEM SHALL NOT EXCEED THE FOLLOWING.
- | POLLUTANTS | EXHAUST CONCENTRATION |
|------------|-----------------------|
| TOC | 10.0 PPMV |
| BENZENE | 0.2 PPMV |
| MTBE | 1.0 PPMV |
- [RULE 1303(b)(2)-OFFSET, RULE 1401]
13. THE LABORATORY DETECTION LIMITS FOR BENZENE AND MTBE SHALL BE LOWER THAN THE EMISSIONS LIMITS IN CONDITION NO. 12.
[RULE 1401]
14. SAMPLES SHALL BE COLLECTED AND ANALYZED ONCE DURING THE FIRST WEEK OF OPERATION FOR TOTAL VOLATILE ORGANIC COMPOUNDS AND SPECIATED FOR THE COMPOUNDS LISTED IN CONDITION NO 12 (AND OTHER TOXICS AS REQUIRED IN (E)) AS FOLLOWS:
- A. TEDLAR BAG OR SUMMA CANISTER SAMPLES SHALL BE COLLECTED AT THE INLET AND OUTLET OF THE CARBON ADSORPTION SYSTEM.
 - B. SAMPLING AND ANALYSIS SHALL BE CONDUCTED BY AN INDEPENDENT LABORATORY PER RULE 304.
 - C. BAG SAMPLING SHALL CONFORM TO CARB METHOD 422 OR EQUIVALENT SAMPLES WITH HIGH MOISTURE SHALL BE COLLECTED USING AN APPROPRIATE METHOD SUCH AS SCAQMD METHOD 25.1/25.3 OR OTHER METHODS APPROVED BY SCAQMD.
 - D. ANALYSIS SHALL BE CONDUCTED USING EPA METHOD TO-3 AND EPA METHOD TO-15 OR OTHER METHOD APPROVED BY SCAQMD.
 - E. THE INLET SAMPLE SHALL ALSO BE ANALYZED FOR ALL TOTAL VOLATILE ORGANIC COMPOUNDS THAT WERE BOTH DETECTED BY THE PHASE II SITE ASSESSMENT (SOIL AND GROUNDWATER CHARACTERIZATION STUDIES) AND FOUND ON THE RULE 1401 COMPOUND LIST. IF NO ASSESSMENTS OF SOIL OR GROUNDWATER EXIST, THE INLET SAMPLE SHALL BE ANALYZED FOR ALL TOTAL ORGANIC COMPOUNDS LISTED IN SCAQMD RULE 1401, UNLESS OTHERWISE APPROVED IN WRITING BY SCAQMD.
[RULE 1303(b)(2)-OFFSET, RULE 1401]



FACILITY PERMIT TO OPERATE EQUILON ENTERPRISES LLC, SIGNAL HILL TERMINAL

15. SAMPLES SHALL BE COLLECTED AND ANALYZED ONCE EACH MONTH OF OPERATION FOR TOTAL ORGANIC COMPOUNDS AND SPECIATED FOR THE COMPOUNDS LISTED IN CONDITION NO 12 (AND OTHER TOXICS AS REQUIRED IN (E)) AS FOLLOWS:
- A. TEDLAR BAG OR SUMMA CANISTER SAMPLES SHALL BE COLLECTED AT THE INLET AND OUTLET OF THE CARBON ADSORPTION SYSTEM.
 - B. BAG SAMPLING SHALL CONFORM TO CARB METHOD 422 OR EQUIVALENT SAMPLES WITH HIGH MOISTURE SHALL BE COLLECTED USING AN APPROPRIATE METHOD SUCH AS SCAQMD METHOD 25.1/25.3 OR OTHER METHODS APPROVED BY SCAQMD.
 - C. ANALYSIS SHALL BE CONDUCTED USING EPA METHOD TO-3 AND EPA METHOD TO-15 OR OTHER METHOD APPROVED BY SCAQMD.
[RULE 1303(b)(2)-OFFSET, RULE 1401]
16. THE ACTIVATED CARBON USED IN THE PRIMARY AND SECONDARY CARBON ADSORBERS SHALL HAVE A CARBON TETRACHLORIDE ACTIVITY NUMBER NOT LESS THAN 60% AS MEASURED BY ASTM METHOD D3467-99 OR A BUTANE ACTIVITY NUMBER OF NOT LESS THAN 23.5% AS MEASURED BY ASTM METHOD 5228-92.
[RULE 1303(a)(1)-BACT]
17. WHENEVER THE VOC CONCENTRATION AT THE OUTLET OF THE PRIMARY ADSORBER EXCEEDS 10 PPMV (AS HEXANE), THE CARBON VESSELS WILL BE RE-SEQUENCED AND THE CARBON REPLENISHED IMMEDIATELY AS FOLLOWS:
- I. THE PRIMARY CARBON ADSORBER SHALL BE REPLACED WITH EITHER FRESH ACTIVATED CARBON OR ADSORBENT FROM THE SECONDARY ADSORBER.
 - II. THE SECONDARY CARBON ADSORBER SHALL BE REPLACED WITH FRESH ACTIVATED CARBON.
- [RULE 1303(a)(1)-BACT, RULE 1303(b)(2)-OFFSET, RULE 1401]
18. THE OPERATOR SHALL SUBMIT TO THE SCAQMD IN WRITING THE RESULTS OF THE FIRST MONTH OF OPERATION UNDER THIS PERMIT, INCLUDING BUT NOT LIMITED TO, MONITORING DATA, LAB ANALYSES, FLOW AND TEMPERATURE READINGS, SUFFICIENT TO PROVE COMPLIANCE WITH EACH CONDITION OF THIS PERMIT. SUBMITTAL SHALL BE WITHIN 45 DAYS OF INITIAL OPERATION OF THIS PERMIT UNIT AND SHALL BE ADDRESSED TO:
- SCAQMD
REFINERY AND WASTE MANAGEMENT TEAM
ENGINEERING AND COMPLIANCE DIVISION
21865 COPLEY DRIVE
DIAMOND BAR, CA 91765
[RULE 1303(a)(1)-BACT, RULE 1303(b)(2)-OFFSET, RULE 1401]

Periodic Monitoring: NONE

Emissions and Requirements: NONE



**FACILITY PERMIT TO OPERATE
EQUILON ENTERPRISES LLC, SIGNAL HILL TERMINAL**

PERMIT TO OPERATE

**Permit No. F63885
A/N 420098**

Equipment Description:

STORAGE TANK, SH-80, DOMED EXTERNAL FLOATING ROOF TYPE, 7,600 BARREL CAPACITY, 35'-0" DIA. X 48'-0" H., WELDED SHELL, DOUBLE DECK, WITH A SHOE TYPE PRIMARY SEAL AND A WIPER TYPE SECONDARY SEAL.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. MATERIALS STORED IN THIS TANK SHALL CONSIST OF PETROLEUM PRODUCTS HAVING A TRUE VAPOR PRESSURE NOT TO EXCEED 11 PSIA INCLUDING BUT NOT LIMITED TO GASOLINE, GASOLINE ADDITIVES, OXYGENATES (INCLUDING DENATURED ETHANOL), DIESEL AND OTHER DISTILLATE FUELS (INCLUDING BIODIESEL) AND SYNTHETIC FUELS.
[RULE 463, RULE 1303(b)(2) - OFFSET]
4. THE OPERATOR SHALL LIMIT THE THROUGHPUT FROM THIS TANK TO NO MORE THAN 212,917 BARRELS IN ANY ONE CALENDAR MONTH. A FLOW MEASURING DEVICE, LOCATED AT LOADING RACKS NO.1, 2 AND 3 SHALL RECORD THE THROUGHPUT TO SHOW COMPLIANCE WITH THIS CONDITION.
[RULE 1303(b)(2) - OFFSET]
5. THIS EQUIPMENT SHALL COMPLY WITH ALL THE APPLICABLE REQUIREMENTS OF RULE 463. FOR RULE 463 APPLICABILITY, ONLY SUBDIVISION (d) IN THE MARCH 11, 1994 AMENDMENT, OR EQUIVALENT REQUIREMENTS IN THE FUTURE AMENDMENTS, SHALL APPLY TO DOMED EXTERNAL FLOATING ROOF TANKS. THIS DOES NOT PRECLUDE ANY REQUIREMENTS SPECIFIED IN RULE 1178.
[RULE 463]
6. THE OPERATOR SHALL KEEP ADEQUATE RECORDS OF THE STORAGE TANK THROUGHPUT AND PRODUCT VAPOR PRESSURE. SUCH RECORDS SHALL BE MAINTAINED AND KEPT ON FILE FOR AT LEAST FIVE YEARS IN A FORMAT APPROVED BY THE DISTRICT, AND SHALL BE MADE AVAILABLE TO THE EXECUTIVE OFFICER OR HIS AUTHORIZED REPRESENTATIVE UPON REQUEST.
[RULE 463, RULE 1303(b)(2) - OFFSET]



**FACILITY PERMIT TO OPERATE
EQUILON ENTERPRISES LLC, SIGNAL HILL TERMINAL**

Periodic Monitoring: NONE

Emissions and Requirements:

7. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: RULE 463
VOC: RULE 1149
VOC: RULE 1178



**FACILITY PERMIT TO OPERATE
EQUILON ENTERPRISES LLC, SIGNAL HILL TERMINAL**

PERMIT TO OPERATE

**Permit No. G25270
A/N 426948**

Equipment Description:

STORAGE TANK, TANK NO. SH-300, INTERNAL FLOATING ROOF TANK, CAPACITY 30,000 BARRELS, 70'-0" DIA. X 48'-0" H., DOUBLE DECK, WITH MECHANICAL SHOE PRIMARY SEAL AND A RIM MOUNTED SECONDARY SEAL.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. MATERIALS STORED IN THIS TANK SHALL CONSIST OF PETROLEUM PRODUCTS HAVING A TRUE VAPOR PRESSURE NOT TO EXCEED 11 PSIA INCLUDING BUT NOT LIMITED TO GASOLINE, GASOLINE ADDITIVES, OXYGENATES (INCLUDING DENATURED ETHANOL), DIESEL AND OTHER DISTILLATE FUELS (INCLUDING BIODIESEL) AND SYNTHETIC FUELS.
[RULE 1303(b)(2) – OFFSET, RULE 463, 40 CFR 60 SUBPART Kb, RULE 1313(g) – EMISSION LIMITATION]
4. THE OPERATOR SHALL LIMIT THE THROUGHPUT FROM THIS TANK TO NO MORE THAN 851,190 BARRELS IN ANY ONE MONTH. A FLOW MEASURING DEVICE, LOCATED AT LOADING RACKS NOS. 1, 2, AND 3 SHALL RECORD THE THROUGHPUT TO SHOW COMPLIANCE WITH THIS CONDITION.
[RULE 1303(b)(2) – OFFSET, RULE 1313(g) – EMISSION LIMITATION]
5. THE HYDROCARBON CONCENTRATION IN THE VAPOR SPACE ABOVE THE INTERNAL FLOATING ROOF SHALL NOT EXCEED 30 PERCENT OF THE LOWER EXPLOSIVE LIMIT.
[RULE 463, RULE 1178]
6. THE OPERATOR SHALL MONITOR THE HYDROCARBON CONCENTRATION IN THE VAPOR SPACE ABOVE THE INTERNAL FLOATING ROOF USING AN EXPLOSIMETER OR EQUIVALENT DEVICE ONCE EVERY SIX MONTHS.
[RULE 463, RULE 1178]
7. THE OPERATOR SHALL KEEP RECORDS, IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETERS OR ITEMS:



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TYPE OF PRODUCT, ITS THROUGHPUT, AND ITS TRUE VAPOR PRESSURE UNDER ACTUAL STORAGE CONDITIONS.

[RULE 463, 40 CFR 60 SUBPART Kb]

Periodic Monitoring: NONE

Emissions and Requirements:

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC/TOC: 40 CFR 60 SUBPART Kb
VOC: RULE 463
VOC: RULE 1149
VOC: RULE 1178



**FACILITY PERMIT TO OPERATE
EQUILON ENTERPRISES LLC, SIGNAL HILL TERMINAL**

PERMIT TO OPERATE

**Permit No. F91445
A/N 467025**

Equipment Description:

STORAGE TANK, TANK NO. 380-S-1, 76'-0" DIA. X 50'-0" H., 38,000 BBL CAPACITY, INTERNAL FLOATING ROOF, WITH A MECHANICAL SHOE TYPE PRIMARY SEAL AND A RIM MOUNTED MULTIPLE WIPER SECONDARY SEAL.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS TANK SHALL NOT BE USED FOR STORING ORGANIC LIQUIDS HAVING A VAPOR PRESSURE OF 11 PSIA OR GREATER UNDER ACTUAL OPERATING CONDITIONS.
[RULE 463, RULE 1303(b)(2) - OFFSET]
4. THE OPERATOR SHALL USE THIS EQUIPMENT IN SUCH A MANNER THAT THE HYDROCARBON CONCENTRATION BEING MONITORED, AS INDICATED BELOW, DOES NOT EXCEED 50 PERCENT OF THE LOWER EXPLOSIVE LIMIT. THE OPERATOR SHALL USE AN EXPLOSIMETER TO MONITOR THE HYDROCARBON CONCENTRATION IN THE VAPOR SPACE ABOVE THE INTERNAL ROOF TWICE PER YEAR TO ENSURE COMPLIANCE WITH THIS CONDITION.
[RULE 463]
5. THE OPERATOR SHALL KEEP RECORDS, IN MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):

TYPE OF LIQUID STORED, THROUGHPUT, AND TRUE VAPOR PRESSURE OF LIQUIDS UNDER ACTUAL STORAGE CONDITIONS.
[RULE 463, RULE 1303(b)(2) - OFFSET]

Periodic Monitoring: NONE

Emissions and Requirements:



**FACILITY PERMIT TO OPERATE
EQUILON ENTERPRISES LLC, SIGNAL HILL TERMINAL**

6. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: RULE 463
VOC: RULE 1149
VOC: RULE 1178



**FACILITY PERMIT TO OPERATE
EQUILON ENTERPRISES LLC, SIGNAL HILL TERMINAL**

PERMIT TO OPERATE

**Permit No. G24271
A/N 474019**

Equipment Description:

STORAGE TANK, TANK NO. 100-S-17, DOMED EXTERNAL FLOATING ROOF, CAPACITY 10,000 BARRELS, 40'-0"DIA X 48'-0"H, WELDED, PONTOON TYPE, WITH MECHANICAL SHOE PRIMARY SEAL AND RIM MOUNTED WIPER SECONDARY SEAL.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. MATERIALS STORED IN THIS TANK SHALL CONSIST OF PETROLEUM PRODUCTS HAVING A TRUE VAPOR PRESSURE NOT TO EXCEED 11 PSIA INCLUDING BUT NOT LIMITED TO GASOLINE, GASOLINE ADDITIVES, OXYGENATES (INCLUDING DENATURED ETHANOL), DIESEL AND OTHER DISTILLATE FUELS (INCLUDING BIODIESEL) AND SYNTHETIC FUELS.
[RULE 1303(b)(2) – OFFSET, RULE 463, 40 CFR 60 SUBPART Kb, RULE 1313(g) – EMISSION LIMITATION]
4. THE OPERATOR SHALL LIMIT THE THROUGHPUT FROM THIS TANK TO NO MORE THAN 557,763 BARRELS IN ANY ONE MONTH. A FLOW MEASURING DEVICE, LOCATED AT LOADING RACKS NOS. 1, 2, AND 3 SHALL RECORD THE THROUGHPUT TO SHOW COMPLIANCE WITH THIS CONDITION.
[RULE 1313(g) – EMISSION LIMITATION]
5. THE OPERATOR SHALL KEEP RECORDS, IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETERS OR ITEMS:

TYPE OF PRODUCT, ITS THROUGHPUT, AND ITS TRUE VAPOR PRESSURE UNDER ACTUAL STORAGE CONDITIONS.
[RULE 463]

Periodic Monitoring: NONE

Emissions and Requirements:



**FACILITY PERMIT TO OPERATE
EQUILON ENTERPRISES LLC, SIGNAL HILL TERMINAL**

6. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: RULE 463
VOC: RULE 1149
VOC: RULE 1178



**FACILITY PERMIT TO OPERATE
EQUILON ENTERPRISES LLC, SIGNAL HILL TERMINAL**

PERMIT TO CONSTRUCT/OPERATE

**Permit No. G15481
A/N 505270**

Equipment Description:

MODIFICATION OF VAPOR RECOVERY SYSTEM, CARBON ADSORBER WITH REGENERATION SYSTEM, JOHN ZINK, MODEL AA-825-6-15B, 200 CFM CAPACITY, SERVING THREE GASOLINE LOADING/UNLOADING RACKS, CONSISTING OF:

1. SIX VAPOR PICK-UP LINES AND A COLLECTION HEADER.
2. ONE VAPOR HOLDER, 30,000-CU. FT. CAPACITY, 30'-0" DIA. X 24'-0" H., FIXED ROOF WITH INTERNAL DIAPHRAGM.
3. TWO CARBON ADSORBERS, 6'-0" DIA X 15'-0" H. EACH
4. ONE VERTICAL ABSORBER, 2'-6" DIA X 10'-0" H.
5. ONE HORIZONTAL SEPARATOR, 4'-0" DIA. X 10'-0" L.
6. TWO VACUUM PUMPS, MECHANICAL SEALS, 75 HP EACH.
7. ONE GASOLINE SUPPLY PUMP, MECHANICAL SEALS, 10 HP.
8. TWO GASOLINE RETURN PUMPS, MECHANICAL SEALS, 25 HP EACH.
9. ONE SEAL FLUID CIRCULATION PUMP, 2 HP.
10. TWO BLOWERS, 3-HP EACH, ONE STANDBY.
11. VACUUM BOOSTER BLOWER, WITH 60 HP MOTOR

BY THE ADDITION OF:

12. VAPOR HOLDER BYPASS

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]



**FACILITY PERMIT TO OPERATE
EQUILON ENTERPRISES LLC, SIGNAL HILL TERMINAL**

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THE MAXIMUM GASOLINE LOADING RATE SHALL NOT EXCEED 2,118,404 GALLONS PER DAY FROM ALL THREE LOADING RACKS NOS. 1, 2, AND 3.
[RULE 1303(b)(2) - OFFSET]
4. THE CONTINUOUS HYDROCARBON MONITORING SYSTEM SHALL BE IN FULL USE AT ALL TIMES AND SHALL ALERT THE OPERATOR BOTH AUDIBLE AND VISUALLY TO PREVENT HYDROCARBON BREAKTHROUGH. THE ALARM SHALL BE SET TO ACTIVATE AT A HYDROCARBON EMISSION RATE OF 0.065 POUND HYDROCARBON PER 1000 GALLONS.
[RULE 1303(a)(1)-BACT, RULE 1303(b)(2) - OFFSET]
5. THROUGHPUT RECORDS SHALL BE MAINTAINED FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1303(b)(2) - OFFSET]
6. THE OPERATOR SHALL KEEP RECORDS, IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):

GASOLINE LOADING RATES FOR RACKS NOS. 1, 2 AND 3
FREQUENCY OF HYDROCARBON BREAKTHROUGHS
[RULE 462, RULE 1303(b)(2) - OFFSET]
7. THIS PERMIT TO CONSTRUCT SHALL EXPIRE ON OCTOBER 27, 2012, UNLESS AN EXTENSION IS GRANTED BY THE EXECUTIVE OFFICER.
[RULE 204]
8. THE VAPOR HOLDER MAY BE BYPASSED DURING PERIODS OF MAINTENANCE, REPAIR, BREAKDOWN, OR OTHER TIMES DETERMINED APPROPRIATE BY THE PERMITTEE. VOC EMISSIONS SHALL NOT EXCEED 0.065 POUNDS PER 1,000 GALLONS OF ORGANIC LIQUID LOADED WHILE THE BLADDER TANK IS BYPASSED. THE OPERATOR SHALL KEEP RECORDS OF THE DATES AND DURATIONS WHEN THE VAPOR RECOVERY SYSTEM IS IN BYPASS MODE.
[RULE 1303(a)(1) – BACT, RULE 1303(b)(2) – OFFSET]
9. WITHIN 30 CALENDAR DAYS AFTER COMPLETING CONSTRUCTION OF THE VAPOR HOLDER BYPASS MODIFICATION, A WRITTEN REQUEST SHALL BE SUBMITTED TO THE CALIFORNIA AIR RESOURCES BOARD (CARB) FOR CERTIFICATION OF THE MODIFIED VAPOR RECOVERY SYSTEM.
[RULE 462]
10. THE OPERATOR SHALL LIMIT THE FLOW RATE OF THE VENT GAS TO THE CARBON ADSORBER TO NO MORE THAN 200 STANDARD CUBIC FEET PER MINUTE (1-HOUR AVERAGE). TO COMPLY WITH THIS CONDITION, THE OPERATOR SHALL INSTALL, MAINTAIN AND OPERATE A FLOW METER TO MONITOR AND RECORD THE FLOW RATE OF THE GASES SENT TO THE CARBON ADSORBER AT LEAST ONCE EVERY MINUTE.
[RULE 204]



**FACILITY PERMIT TO OPERATE
EQUILON ENTERPRISES LLC, SIGNAL HILL TERMINAL**

Periodic Monitoring:

11. THE OPERATOR SHALL CONDUCT SOURCE TEST(S) WHEN THE SYSTEM IS IN NORMAL MODE, IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:

THE TEST SHALL BE CONDUCTED AT LEAST ONCE EVERY THREE YEARS.

THE TEST SHALL BE CONDUCTED TO DETERMINE THE BULK LOADING RATE IN GALLONS PER HOUR DURING THE SOURCE TEST.

THE TEST SHALL BE CONDUCTED TO DETERMINE THE TOTAL VOC EMISSION RATE IN POUNDS PER 1000 GALLONS OF ORGANIC LIQUID LOADED AND IN MILLIGRAMS PER LITER OF ORGANIC LIQUID LOADED.

[RULE 1303(a)(1) - BACT, RULE 3004(a)(4) - PERIODIC MONITORING]

Emissions and Requirements:

12. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: 0.08 LB/1000 GAL. ORGANIC LIQUID LOADED RULE 462
VOC: 0.065 LB/1000 GAL. ORGANIC LIQUID LOADED RULE 1303(a)(1) - BACT
VOC/TOC: 35 MG/L GASOLINE LOADED 40CFR60 SUBPART XX



FACILITY PERMIT TO OPERATE EQUILON ENTERPRISES LLC, SIGNAL HILL TERMINAL

RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS.

Conditions:

1. 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 OF ALL COATINGS 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 COATING.

FOR OTHER 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 COATING.
[RULE 1113, RULE 109]

Emissions and Requirements:

2. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATION:

VOC: RULE 1113, SEE APPENDIX B FOR EMISSION LIMITS
VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS



**FACILITY PERMIT TO OPERATE
EQUILON ENTERPRISES LLC, SIGNAL HILL TERMINAL**

RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, HAND WIPING OPERATIONS.

Emissions and Requirements:

1. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATION:

VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS



**FACILITY PERMIT TO OPERATE
EQUILON ENTERPRISES LLC, SIGNAL HILL TERMINAL**

RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, AIR CONDITIONING UNITS

Emissions and Requirements:

1. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATION:

TOC: RULE 1415



**FACILITY PERMIT TO OPERATE
EQUILON ENT LLC, SIGNAL HILL TERMINAL**

**Facility Equipment and Requirements
(Section H)**

This section consists of a table listing all individual Permits to Construct issued to various equipment at the facility. Each permit will list operating conditions, including periodic monitoring requirements and applicable emission limits and requirements. Also included are the rule origin and authority of each emission limit and permit condition.



**FACILITY PERMIT TO OPERATE
EQUILON ENT LLC, SIGNAL HILL TERMINAL**

PERMITTED EQUIPMENT LIST

NO CURRENT PERMITS TO CONSTRUCT ISSUED FOR THIS FACILITY



FACILITY PERMIT TO OPERATE EQUILON ENT LLC, SHELL OIL PROD. U S

SECTION I: PLANS AND SCHEDULES

This section lists all plans approved by AQMD for the purposes of meeting the requirements of applicable AQMD rules specified below. The operator shall comply with all conditions specified in the approval of these plans .

Documents pertaining to the plan applications listed below are available for public review at AQMD Headquarters. Any changes to plan applications will require permit modification in accordance with Title V permit revision procedures.

List of approved plans:

Application	Rule
343934	463
549349	462

NOTE: This section does not list compliance schedules pursuant to the requirements of Regulation XXX - Title V Permits; Rule 3004(a)(10)(C). For equipment subject to a variance, order for abatement, or alternative operating condition granted pursuant to Rule 518.2, equipment specific conditions are added to the equipment in Section D or H of the permit.



South Coast Air Quality Management District



21865 E Copley Drive Diamond Bar, CA 91765-4182
(909) 396-2000 [http //www aqmd gov](http://www.aqmd.gov)

Attention Frank Takahashi, Sr Env'tl Analyst
Company Equilon Enterprises, LLC
Address 20945 S Wilmington Av
Carson, CA 90745

Date October 28, 1998
ID # 116931
Application # 343934

Subject Compliance Plan for Rule 463 (e)(1)(A)

The Rule 463 Compliance and Maintenance Plan you submitted on 08/19/98 for the Signal Hill Terminal - 2457 Redondo Av, Long Beach, CA 90806 - is complete and is approved as submitted

You are required to comply with all information as submitted with your Compliance Plan application, including the inspection schedule and the list of certified auditors. Changes to this plan that involve modifications or additions to your equipment inventory list require a new application for plan modification to update and reflect your current operations per Rule 463(e). Additionally, any changes to the inspection schedule or the list of certified auditors must be provided to the District in writing.

If you need additional information regarding this approval, please contact Jimedel Molde at (909)396-3060 or Mira Schwab at (909)396-3116

Sincerely,

Pang Mueller
Senior Manager
Refinery/Energy and OCS
Stationary Source Compliance



**RULE 462 CONTINUOUS MONITORING SYSTEM (CMS) COMPLIANCE PLAN
FACILITY ID 116931 – EQUILON ENTERPRISES LLC, dba SHELL OIL PRODUCTS US
SIGNAL HILL TERMINAL**

CONTINUOUS MONITORING SYSTEM (CMS) EQUIPMENT

CONTINUOUS MONITORING SYSTEM (CMS) CONSISTING OF TWO INFRARED INDUSTRIES MODEL 8400D DIGITAL GAS ANALYZERS (ONE USED AS A SPARE) AND A YOKOGAWA MODEL DX1000 SERIES (OR EQUIVALENT) DIGITAL RECORDER AND SERVING A JOHN ZINK CARBON ADSORPTION SYSTEM

CONDITIONS:

1. The operator shall conduct the operation of this CMS in compliance with all data and specifications submitted with the plan application under which this approval is granted, unless otherwise noted below.
2. The CMS shall sample and analyze gas from the outlet of the vapor recovery system (carbon adsorber) to accurately measure the Nonmethane Hydrocarbon (NMHC) concentration.
3. The CMS shall provide and the data recorder shall retain the instantaneous NMHC concentration and a continuous 15-minute average NMHC concentration, measured at the exhaust of the vapor recovery system (carbon adsorbers).
4. The operator shall maintain a display of the NMHC concentrations in a location accessible to District personnel.
5. Daily calibration error tests shall be performed on the CMS at the low (0-20 percent) and high (80-100 percent) ranges of concentration. The calibration error shall not exceed 2.5 percent of the full scale range.
6. Testing of the CMS for relative accuracy (RA) and calibration drift, as described in 40 CFR 60 Appendix B, shall be conducted in conjunction with the vapor recovery system (carbon adsorbers) performance testing required by the permit for the vapor recovery system (carbon adsorbers). Performance testing shall be conducted on both the on-line and spare analyzers, unless the spare analyzer is removed and will not be used for Rule 462 compliance purposes.
7. The operator shall ensure that the CMS is properly maintained and kept in good operating condition at all times and that it meets applicable requirements of 40 CFR 63.427 and 40 CFR 60 Appendix B, Specification 8. The applicability of 40 CFR 63.427 is pursuant to AQMD rule 462(f)(2) and does not necessarily imply that the facility is a major source of Hazardous Air Pollutants (HAPs).
8. The operator shall maintain the recording device in proper operation at all times such that it is accurately synchronized with the correct time of day.



RULE 462 CONTINUOUS MONITORING SYSTEM (CMS) COMPLIANCE PLAN
FACILITY ID 116931 – EQUILON ENTERPRISES LLC, dba SHELL OIL PRODUCTS US
SIGNAL HILL TERMINAL

9. The recording device shall archive data in a secure encrypted format to nonvolatile data storage. Instantaneous readings shall be recorded at a frequency of not less than once per minute. The recorder/software shall be capable of displaying and printing out plots of the NMHC concentration within 3 hours of a request. Where external storage media is used, it shall be replaced at a sufficient frequency to ensure that the amount of stored data is at no more than 90% of the storage capacity of the media.
10. The operator shall notify the executive officer, within 24 hours, in the event of a CMS or recorder failure or shutdown for repair, which exceeds one hour. The notification shall include the cause and time of the failure, the time the recorder returned to operation, maintenance or corrective work performed and actions taken to prevent such failures in the future. The CMS or recorder shall be restored to normal operation within 96 hours of the failure.
11. The operator shall keep records on site to show compliance with conditions required by this plan. Such records shall be kept for at least five years and made available to District personnel upon request.