



## FACILITY PERMIT TO OPERATE

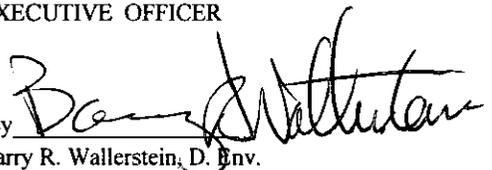
**PACIFIC L.A. MARINE TERMINAL LLC  
750 ELDRIDGE ST  
TERMINAL ISLAND, CA 90731**

### 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   
Barry R. Wallerstein, D. Env.  
Executive Officer



## FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL LLC

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**FACILITY PERMIT TO OPERATE  
PACIFIC L.A. MARINE TERMINAL LLC**

**SECTION A: FACILITY INFORMATION**

**LEGAL OWNER &/OR OPERATOR:** PACIFIC L.A. MARINE TERMINAL LLC

**LEGAL OPERATOR (if different than owner):**

**EQUIPMENT LOCATION:** 750 ELDRIDGE ST  
TERMINAL ISLAND, CA 90731

**MAILING ADDRESS:** 5900 CHERRY AVE  
LONG BEACH, CA 90805

**RESPONSIBLE OFFICIAL:** TROY VALENZUELA

**TITLE:** VICE PRESIDENT, EH&S

**TELEPHONE NUMBER:** (713) 646-4310

**CONTACT PERSON:** THOMAS MCLANE

**TITLE:** DIRECTOR OF ENVIRONMENTAL&REG  
COMPLIANCE

**TELEPHONE NUMBER:** (562) 728-2064

**TITLE V PERMIT ISSUED:** October 06, 2011

**TITLE V PERMIT EXPIRATION DATE:** October 05, 2016

TITLE V	RECLAIM
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YES	NOx: NO
	SOx: NO
	CYCLE: 0
	ZONE: COASTAL



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**FACILITY PERMIT TO OPERATE  
PACIFIC L.A. MARINE TERMINAL LLC**

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**SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION**

NOT APPLICABLE



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**FACILITY PERMIT TO OPERATE  
PACIFIC L.A. MARINE TERMINAL LLC**

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**SECTION C: FACILITY PLOT PLAN**

(TO BE DEVELOPED)



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**FACILITY PERMIT TO OPERATE  
PACIFIC L.A. MARINE TERMINAL LLC**

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

NONE



## **FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL LLC**

### **SECTION E: ADMINISTRATIVE CONDITIONS**

The operating conditions in this section shall apply to all permitted equipment at this facility unless superseded by condition(s) listed elsewhere in this permit.

1. The permit shall remain effective unless this permit is suspended, revoked, modified, reissued, denied, or it is expired for nonpayment of permit processing or annual operating fees. [201, 203, 209, 301]
  - a. The permit must be renewed annually by paying annual operating fees, and the permit shall expire if annual operating fees are not paid pursuant to requirements of Rule 301(d). [301(d)]
  - b. The Permit to Construct listed in Section H shall expire one year from the Permit to Construct issuance date, unless a Permit to Construct extension has been granted by the Executive Officer or unless the equipment has been constructed and the operator has notified the Executive Officer prior to the operation of the equipment, in which case the Permit to Construct serves as a temporary Permit to Operate. [202, 205]
  - c. The Title V permit shall expire as specified under Section K of the Title V permit. The permit expiration date of the Title V facility permit does not supercede the requirements of Rule 205. [205, 3004]
2. The operator shall maintain all equipment in such a manner that ensures proper operation of the equipment. [204]
3. This permit does not authorize the emissions 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 and Regulations of the AQMD. This permit cannot be considered as permission to violate existing laws, ordinances, regulations, or statutes of other governmental agencies. [204]
4. The operator shall not use equipment identified in this facility permit as being connected to air pollution control equipment unless they are so vented to the identified air pollution control equipment which is in full use and which has been included in this permit. [204]



## FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL LLC

### SECTION E: ADMINISTRATIVE CONDITIONS

5. The operator shall not use any equipment having air pollution control device(s) incorporated within the equipment unless the air pollution control device is in full operation. [204]
6. The operator shall maintain records to demonstrate compliance with rules or permit conditions that limit equipment operating parameters, or the type or quantity of material processed. These records shall be made available to AQMD personnel upon request and be maintained for at least five years. [204]
7. The operator shall maintain and operate all equipment to ensure compliance with all emission limits as specified in this facility permit. Compliance with emission limits shall be determined according to the following specifications, unless otherwise specified by AQMD rules or permit conditions: [204]
  - a. For internal combustion engines and gas turbines, measured concentrations shall be corrected to 15 percent stack-gas oxygen content on a dry basis and be averaged over a period of 15 consecutive minutes; [1110.2, 1134]
  - b. For other combustion devices, measured concentrations shall be corrected to 3 percent stack-gas oxygen content on a dry basis and be averaged over a period of 15 consecutive minutes; [1146, 1146.1, 204]
  - c. For non-combustion sources, compliance with emission limits shall be determined and averaged over a period of 60 minutes; [204]
  - d. For the purpose of determining compliance with Rule 407, carbon monoxide (CO) shall be measured on a dry basis and be averaged over 15 consecutive minutes, and sulfur compounds which would exist as liquid or gas at standard conditions shall be calculated as sulfur dioxide (SO<sub>2</sub>) and be averaged over 15 consecutive minutes; [407]
  - e. For the purpose of determining compliance with Rule 409, combustion contaminant emission measurements shall be corrected to 12 percent of carbon dioxide (CO<sub>2</sub>) at standard conditions and averaged over a minimum of 15 consecutive minutes. [409]



## FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL LLC

### SECTION E: ADMINISTRATIVE CONDITIONS

- f. For the purpose of determining compliance with Rule 475, combustion contaminant emission measurements shall be corrected to 3 percent of oxygen (O<sub>2</sub>) at standard conditions and averaged over 15 consecutive minutes or any other averaging time specified by the Executive Officer. [475]
8. The operator shall, when a source test is required by AQMD, provide a source test protocol to AQMD no later than 60 days before the proposed test date. The test shall not commence until the protocol is approved by AQMD. The test protocol shall contain the following information: [204, 304]
  - a. Brief description of the equipment tested.
  - b. Brief process description, including maximum and normal operating temperatures, pressures, throughput, etc.
  - c. Operating conditions under which the test will be performed.
  - d. Method of measuring operating parameters, such as fuel rate and process weight. Process schematic diagram showing the ports and sampling locations, including the dimensions of the ducts and stacks at the sampling locations, and distances of flow disturbances, (e.g. elbows, tees, fans, dampers) from the sampling locations (upstream and downstream).
  - e. Brief description of sampling and analytical methods used to measure each pollutant, temperature, flow rates, and moisture.
  - f. Description of calibration and quality assurance procedures.
  - g. Determination that the testing laboratory qualifies as an "independent testing laboratory" under Rule 304 (conflict of interest).
9. The operator shall submit a report no later than 60 days after conducting a source test, unless otherwise required by AQMD rules or equipment-specific conditions. The report shall contain the following information: [204]
  - a. The results of the source test.



## FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL LLC

### SECTION E: ADMINISTRATIVE CONDITIONS

- b. Brief description of the equipment tested.
  - c. Operating conditions under which the test was performed.
  - d. Method of measuring operating parameters, such as fuel rate and process weight. Process schematic diagram showing the ports and sampling locations, including the dimensions of the ducts and stacks at the sampling locations, and distances of flow disturbances, (e.g. elbows, tees, fans, dampers) from the sampling locations (upstream and downstream).
  - e. Field and laboratory data forms, strip charts and analyses.
  - f. Calculations for volumetric flow rates, emission rates, control efficiency, and overall control efficiency.
10. The operator shall, when a source test is required, provide and maintain facilities for sampling and testing. These facilities shall comply with the requirements of AQMD Source Test Method 1.1 and 1.2. [217]
  11. Whenever required to submit a written report, notification or other submittal to the Executive Officer, AQMD, or the District, the operator shall mail or deliver the material to: Deputy Executive Officer, Engineering and Compliance, AQMD, 21865 E. Copley Drive, Diamond Bar, CA 91765-4182. [204]



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**FACILITY PERMIT TO OPERATE  
PACIFIC L.A. MARINE TERMINAL LLC**

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**SECTION F: RECLAIM MONITORING AND SOURCE TESTING REQUIREMENTS**

NOT APPLICABLE



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**FACILITY PERMIT TO OPERATE  
PACIFIC L.A. MARINE TERMINAL LLC**

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**SECTION G: RECORDKEEPING AND REPORTING REQUIREMENTS FOR  
RECLAIM SOURCES**

The Facility shall comply with all applicable reporting and recordkeeping requirements in Regulation XX. These requirements may include but are not limited to the following:



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**FACILITY PERMIT TO OPERATE  
PACIFIC L.A. MARINE TERMINAL, LLC**

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**Permit to Construct and Temporary Permit to Operate  
(Section H)**

This section consists of a table listing all equipment with Permits to Construct and copies of 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 that the equipment is subject to. Also included is the rule origin and authority of each emission limit and permit condition.



**FACILITY PERMIT TO OPERATE  
PACIFIC L.A. MARINE TERMINAL, LLC**

**EQUIPMENT LIST**

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

<b>Application Number</b>	<b>Issuance Date</b>	<b>Equipment Description</b>	<b>Page No.</b>
512793	9/30/11	STORAGE TANK T2000-1	4
512794	9/30/11	STORAGE TANK T2000-2	7
512795	9/30/11	STORAGE TANK T2000-3	10
512796	9/30/11	STORAGE TANK T2000-4	13
450095	9/30/11	STORAGE TANK T2000-5	16
450097	9/30/11	STORAGE TANK T2000-6	19
450098	9/30/11	STORAGE TANK T2000-7	22
450099	9/30/11	STORAGE TANK T2000-8	25
512797	9/30/11	STORAGE TANK T2000-9	28
512798	9/30/11	STORAGE TANK T2000-10	31
460679	9/30/11	STORAGE TANK CLEANING/DEGASSING VAPOR CONTROL SYSTEM	34
512076	9/30/11	EMERGENCY GENERATOR IC ENGINE	37
512077	9/30/11	EMERGENCY FIREFIGHTING IC ENGINE	39
513776	9/30/11	CONTACT/STORM WATER TANK	41

**NOTE:** 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 PACIFIC L.A. MARINE TERMINAL, LLC

### FACILITY WIDE CONDITION(S)

**Condition(s):**

1. CONSTRUCTION AND OPERATION OF THE PERMITTED EQUIPMENT AT THIS FACILITY SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATIONS UNDER WHICH THE FACILITY PERMIT IS ISSUED EXCEPT WHEN OTHERWISE SPECIFIED IN THIS PERMIT.

[RULE 204]

2. ALL EQUIPMENT UNDER THIS FACILITY PERMIT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.

[RULE 204]

3. THE OPERATOR OF THIS FACILITY SHALL COMPLY WITH AIR-QUALITY-RELATED MITIGATION MEASURES STIPULATED IN THE "FINDINGS OF FACTS, STATEMENT OF OVERRIDING CONSIDERATIONS" AND "MITIGATION MONITORING AND REPORT PROGRAM (MMRP)" DOCUMENTS WHICH ARE PARTS OF FINAL SUPPLEMENTAL IMPACT STATEMENT/FINAL SUBSEQUENT ENVIRONMENTAL IMPACT REPORT (FINAL SEIS/SEIR) CERTIFIED BY THE BOARD OF HARBOR COMMISSIONER ON NOVEMBER 18, 2008.

[CA PRC CEQA, 11-23-1970]

4. 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 RINGLEMANN 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]

5. THE OPERATOR SHALL NOT BURN OR PURCHASE ANY LIQUID FUEL FOR ANY STATIONARY SOURCE CONTAINING SULFUR COMPOUNDS IN EXCESS OF 0.05 PERCENT BY WEIGHT. ON OR AFTER JUNE 1, 2004, THE OPERATOR SHALL NOT PURCHASE ANY DIESEL FUEL FOR STATIONARY SOURCE CONTAINING SULFUR COMPOUNDS IN EXCESS 15 PPM BY WEIGHT AS SUPPLIED BY THE SUPPLIER.

[RULE 431.2]

6. THE OPERATOR SHALL NOT USE ANY FUEL IN STATIONARY COMPRESSION IGNITION ENGINE UNLESS THE FUEL IS CARB DIESEL FUEL OR AN ALTERNATIVE DIESEL FUEL SPECIFIED BY AQMD RULE 1470.

[RULE 1470]



**FACILITY PERMIT TO OPERATE  
PACIFIC L.A. MARINE TERMINAL, LLC**

**PERMIT TO CONSTRUCT**

**A/N 512793  
Granted 9/30/11**

**Equipment Description:**

STORAGE TANK T2000-1, CRUDE OIL, PARTIALLY REFINED PETROLEUM/INTERMEDIATE FEEDSTOCK, 265'-0" DIA. X 64'-0" H., 500,000 BBL. CAPACITY, INTERNAL FLOATING ROOF, WELDED SHELL, WITH METALLIC SHOE PRIMARY SEAL AND RIM-MOUNTED MULTIPLE WIPER TYPE SECONDARY SEAL, CONNECTED TO A VAPOR CONTROL UNIT

**Conditions:**

1. The operator shall limit total emissions excluding roof landing emissions from storage tanks T2000-1, T2000-2, T2000-3 and T2000-4 (PC A/Ns 512793, 512794, 512795 and 512796, respectively) as follows:

Contaminant	Emission Limit, lbs per calendar month
VOC	3,444

The operator shall use US EPA's TANKS4.0 software (latest version) and the method described below for calculating emissions from each storage tank subject to this condition.

The operator shall multiply monthly throughput determined as shown below by 12 for the turnovers per year input into TANKS 4.0 program.

The operator shall calculate the throughput, in barrels, by the following equation:  $V \times L/h$ , where V is the volume of the tank in barrels, L is the total vertical one-way liquid surface level travel in feet per month and h is the height of the tank in feet. V and h shall be based the most recent strapping chart measurements, and L shall be actual measurement taken by an automatic tank level gauge (ATLG) meeting below requirements.

The operator shall install and maintain an automatic tank level gauge (ATLG) and recorder to record continuously the vertical movement of the tank level. For the purpose of this condition, continuous recording is defined as once every 15 minutes.

The operator shall calculate the total one-way liquid surface level movement, in feet, on a daily and monthly basis.

The ATLG installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLG differs from the manual measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLG shall be repaired and put back into service within 10 days. While the ATLG is being repaired, throughput shall be determined by hourly tank level data averaged for the previous 30 days, prior to the discovery of the discrepancy.

In the event of a failure or routine maintenance of the ATLG, the ATLG shall be repaired (if necessary) and put back into service within 10 days of the time that the ATLG failed or was removed from service for maintenance. While the ATLG is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the ATLG went out of service.



## FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL, LLC

The operator shall use actual physical characteristics of the tank, best available meteorological data and vapor pressures under actual storage conditions of liquids stored in the tank to input into TANKS 4.0 program.

[RULE 1303(B)(2)-OFFSET, 5-10-1996]

2. The operator shall limit the total number of roof landings for drain-dry, degassing and cleaning of storage tanks T2000-1, T2000-2, T2000-3 and T2000-4 (PC A/Ns 512793, 512794, 512795 and 51796, respectively) to no more than 16 times in any one calendar month.

[RULE 1303(B)(2)-OFFSET, 5-10-1996]

3. The operator shall not store in this tank crude oils having a true vapor pressure (TVP) of greater than 10 psia or partially refined petroleum/intermediate feedstock having a TVP of greater than 5 psia under actual storing conditions. To demonstrate compliance with this condition, the operator shall determine vapor pressures of the materials stored in the storage tank using one of the following methods:
  - a. Sample and test the material stored
  - b. Use engineering method to calculate the vapor pressure of material stored
  - c. Provide material safety data sheet (MSDS) that show vapor pressure of material stored

[RULE 1303(b)(2)-Offset, 5-10-1996; Rule 1401, 3-5-2005]

4. This tank shall not store finished petroleum products or carbon black oil (CBO).

[RULE 1401, 6-5-2009]

5. The operator shall construct, operate, and maintain this tank as follows:
  - a. All roof openings and fittings for the internal floating-type cover shall meet the requirements of Rule 1178 (d)(1)(A)(i) through (d)(1)(A)(xiv), as applicable.
  - b. The rim seals for the internal floating-type cover shall meet the requirements of Rule 1178 (d)(1)(B)(i) through (d)(1)(B)(xi), as applicable.
  - c. Complete gap measurements of the rim seal system shall be performed by District certified personnel if the tank is emptied and degassed for a continuous period of 10 days or more. Measurements shall be conducted by District certified personnel in accordance with Rule 1178 Attachment A – Inspection Procedures and Compliance Report Forms. However, such complete gap measurements, once completed, may not be required for five years; but it shall be conducted at least once every 10 years.
  - d. The concentration of organic vapor in the vapor space above the internal floating-type cover shall not exceed 30% of its lower explosive limit (LEL). The LEL levels in the vapor space above the internal floating-type cover shall be measured by District certified personnel on a semiannual basis. Measurements shall be conducted by District certified personnel in accordance with Rule 463 Attachment B – Inspection Procedures and Compliance Report Form, Part E.

[RULE 1303(a)(1)-BACT, 5-10-1996; Rule 3004 (a)(4) – Periodic Monitoring, 12-12-1997]



## FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL, LLC

6. This storage tank is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1178
VOC	District Rule	463
VOC	District Rule	1149
VOC	40 CFR60	Kb

For the purpose of this condition, District Rule 1178 is not applicable to the tank until the VOC emissions for this facility exceeds 20 tons per year as reported under Rule 301.

[RULE 1149, 7-14-1995; RULE 1178, 4-7-2006; RULE 463, 5-6-2005; 40CFR 60 SUBPART Kb, 10-15-2003]

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

Whenever this tank is being degassed or filled prior to the roof being refloated, it shall be connected to the tank cleaning /degassing vapor control unit (A/N 460679) which is in full use and has been issued a valid permit to operate by the District.

This tank shall vent to the vapor control unit while its floating roof is resting on leg support until the VOC concentration within the tank is reduced to less than 5,000 ppmv, measured as methane, for at least one hour after the shutdown of the air pollution control system.

The operator may elect not venting this tank to the vapor control unit if the tank contained or last contained organic liquid with a Reid vapor pressure (RVP) of 0.5 psia or less under actual storage condition before being drained dry. The operator shall maintain and make available to the Executive Officer upon request RVP data of the liquid stored in the tank before it is emptied.

[RULE 1149, 5-2-2008]

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

Throughput, vapor pressure of stored liquid, and other records required to demonstrate compliance with permit conditions.

The start and end dates and times when this tank has a roof-landing event including the numbers of degassing hours.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

9. The operator shall provide to the District the following items:

Final drawings and/or specifications of tank rim seals, deck fittings, floating roof and all other roof openings for this tank. All items shall be submitted to the District within 60 days after installation.

[RULE 1303(b)(2)-Offset, 5-10-1996]



## FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL, LLC

### PERMIT TO CONSTRUCT

A/N 512794  
Granted 9/30/11

**Equipment Description:**

STORAGE TANK T2000-2, CRUDE OIL, PARTIALLY REFINED PETROLEUM/INTERMEDIATE FEEDSTOCK, 265'-0" DIA. X 64'-0" H., 500,000 BBL. CAPACITY, INTERNAL FLOATING ROOF, WELDED SHELL, WITH METALLIC SHOE PRIMARY SEAL AND RIM-MOUNTED MULTIPLE WIPER TYPE SECONDARY SEAL, CONNECTED TO A VAPOR CONTROL UNIT

**Conditions:**

1. The operator shall limit total emissions excluding roof landing emissions from storage tanks T2000-1, T2000-2, T2000-3 and T2000-4 (PC A/Ns 512793, 512794, 512795 and 512796, respectively) as follows:

Contaminant	Emission Limit, lbs per calendar month
VOC	3,444

The operator shall use US EPA's TANKS4.0 software (latest version) and the method described below for calculating emissions from each storage tank subject to this condition.

The operator shall multiply monthly throughput determined as shown below by 12 for the turnovers per year input into TANKS 4.0 program.

The operator shall calculate the throughput, in barrels, by the following equation:  $V \times L/h$ , where V is the volume of the tank in barrels, L is the total vertical one-way liquid surface level travel in feet per month and h is the height of the tank in feet. V and h shall be based the most recent strapping chart measurements, and L shall be actual measurement taken by an automatic tank level gauge (ATLG) meeting below requirements.

The operator shall install and maintain an automatic tank level gauge (ATLG) and recorder to record continuously the vertical movement of the tank level. For the purpose of this condition, continuous recording is defined as once every 15 minutes.

The operator shall calculate the total one-way liquid surface level movement, in feet, on a daily and monthly basis.

The ATLG installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLG differs from the manual measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLG shall be repaired and put back into service within 10 days. While the ATLG is being repaired, throughput shall be determined by hourly tank level data averaged for the previous 30 days, prior to the discovery of the discrepancy.

In the event of a failure or routine maintenance of the ATLG, the ATLG shall be repaired (if necessary) and put back into service within 10 days of the time that the ATLG failed or was removed from service for maintenance. While the ATLG is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the ATLG went out of service.



## FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL, LLC

The operator shall use actual physical characteristics of the tank, best available meteorological data and vapor pressures under actual storage conditions of liquids stored in the tank to input into TANKS 4.0 program.

[RULE 1303(B)(2)-OFFSET, 5-10-1996]

2. The operator shall limit the total number of roof landings for drain-dry, degassing and cleaning of storage tanks T2000-1, T2000-2, T2000-3 and T2000-4 (PC A/Ns 512793, 512794, 512795 and 51796, respectively) to no more than 16 times in any one calendar month.

[RULE 1303(B)(2)-OFFSET, 5-10-1996]

3. The operator shall not store in this tank crude oils having a true vapor pressure (TVP) of greater than 10 psia or partially refined petroleum/intermediate feedstock having a TVP of greater than 5 psia under actual storing conditions. To demonstrate compliance with this condition, the operator shall determine vapor pressures of the materials stored in the storage tank using one of the following methods:
  - a. Sample and test the material stored
  - b. Use engineering method to calculate the vapor pressure of material stored
  - c. Provide material safety data sheet (MSDS) that show vapor pressure of material stored

[RULE 1303(b)(2)-Offset, 5-10-1996; Rule 1401, 3-5-2005]

4. This tank shall not store finished petroleum products or carbon black oil (CBO).

[RULE 1401, 6-5-2009]

5. The operator shall construct, operate, and maintain this tank as follows:
  - a. All roof openings and fittings for the internal floating-type cover shall meet the requirements of Rule 1178 (d)(1)(A)(i) through (d)(1)(A)(xiv), as applicable.
  - b. The rim seals for the internal floating-type cover shall meet the requirements of Rule 1178 (d)(1)(B)(i) through (d)(1)(B)(xi), as applicable.
  - c. Complete gap measurements of the rim seal system shall be performed by District certified personnel each time the tank is emptied and degassed for a continuous period of 10 days or more. Measurements shall be conducted by District certified personnel in accordance with Rule 1178 Attachment A – Inspection Procedures and Compliance Report Forms. However, such complete gap measurements, once completed, may not be required for five years; but it shall be conducted at least once every 10 years
  - d. The concentration of organic vapor in the vapor space above the internal floating-type cover shall not exceed 30% of its lower explosive limit (LEL). The LEL levels in the vapor space above the internal floating-type cover shall be measured by District certified personnel on a semiannual basis. Measurements shall be conducted by District certified personnel in accordance with Rule 463 Attachment B – Inspection Procedures and Compliance Report Form, Part E.

[RULE 1303(a)(1)-BACT, 5-10-1996; Rule 3004 (a)(4) – Periodic Monitoring, 12-12-1997]



**FACILITY PERMIT TO OPERATE  
PACIFIC L.A. MARINE TERMINAL, LLC**

6. This storage tank is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1178
VOC	District Rule	463
VOC	District Rule	1149
VOC	40 CFR60	Kb

For the purpose of this condition, District Rule 1178 is not applicable to the tank until the VOC emissions for this facility exceeds 20 tons per year as reported under Rule 301.

[RULE 1149, 5-2-2008; RULE 1178, 4-7-2006; RULE 463, 5-6-2005; 40CFR 60 SUBPART Kb, 10-15-2003]

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

Whenever this tank is being degassed or filled prior to the roof being refloated, it shall be connected to the tank cleaning/degassing vapor control unit (A/N 460679) which is in full use and has been issued a valid permit to operate by the District.

This tank shall vent to the vapor control unit while its floating roof is resting on leg support until the VOC concentration within the tank is reduced to less than 5,000 ppmv, measured as methane, for at least one hour after the shutdown of the air pollution control system.

The operator may elect not venting this tank to the vapor control unit if the tank contained or last contained organic liquid with a Reid vapor pressure (RVP) of 0.5 psia or less under actual storage condition before being drained dry. The operator shall maintain and make available to the Executive Officer upon request RVP data of the liquid stored in the tank before it is emptied.

[RULE 1149, 5-2-2008]

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

Throughput, vapor pressure of stored liquid, and other records required to demonstrate compliance with permit conditions.

The start and end dates and times when this tank has a roof-landing event including the numbers of degassing hours.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

9. The operator shall provide to the District the following items:

Final drawings and/or specifications of tank rim seals, deck fittings, floating roof and all other roof openings for this tank. All items shall be submitted to the District within 60 days after installation.

[RULE 1303(b)(2)-Offset, 5-10-1996]



**FACILITY PERMIT TO OPERATE  
PACIFIC L.A. MARINE TERMINAL, LLC**

**PERMIT TO CONSTRUCT**

**A/N 512795  
Granted 9/30/11**

**Equipment Description:**

STORAGE TANK T2000-3, CRUDE OIL, PARTIALLY REFINED PETROLEUM/INTERMEDIATE FEEDSTOCK, 265'-0" DIA. X 64'-0" H., 500,000 BBL. CAPACITY, INTERNAL FLOATING ROOF, WELDED SHELL, WITH METALLIC SHOE PRIMARY SEAL AND RIM-MOUNTED MULTIPLE WIPER TYPE SECONDARY SEAL, CONNECTED TO A VAPOR CONTROL UNIT

**Conditions:**

1. The operator shall limit total emissions excluding roof landing emissions from storage tanks T2000-1, T2000-2, T2000-3 and T2000-4 (PC A/Ns 512793, 512794, 512795 and 512796, respectively) as follows:

Contaminant	Emission Limit, lbs per calendar month
VOC	3,444

The operator shall use US EPA's TANKS4.0 software (latest version) and the method described below for calculating emissions from each storage tank subject to this condition.

The operator shall multiply monthly throughput determined as shown below by 12 for the turnovers per year input into TANKS 4.0 program.

The operator shall calculate the throughput, in barrels, by the following equation:  $V \times L/h$ , where V is the volume of the tank in barrels, L is the total vertical one-way liquid surface level travel in feet per month and h is the height of the tank in feet. V and h shall be based the most recent strapping chart measurements, and L shall be actual measurement taken by an automatic tank level gauge (ATLG) meeting below requirements.

The operator shall install and maintain an automatic tank level gauge (ATLG) and recorder to record continuously the vertical movement of the tank level. For the purpose of this condition, continuous recording is defined as once every 15 minutes.

The operator shall calculate the total one-way liquid surface level movement, in feet, on a daily and monthly basis.

The ATLG installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLG differs from the manual measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLG shall be repaired and put back into service within 10 days. While the ATLG is being repaired, throughput shall be determined by hourly tank level data averaged for the previous 30 days, prior to the discovery of the discrepancy.

In the event of a failure or routine maintenance of the ATLG, the ATLG shall be repaired (if necessary) and put back into service within 10 days of the time that the ATLG failed or was removed from service for maintenance. While the ATLG is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the ATLG went out of service.



## FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL, LLC

The operator shall use actual physical characteristics of the tank, best available meteorological data and vapor pressures under actual storage conditions of liquids stored in the tank to input into TANKS 4.0 program.

[RULE 1303(B)(2)-OFFSET, 5-10-1996]

2. The operator shall limit the total number of roof landings for drain-dry, degassing and cleaning of storage tanks T2000-1, T2000-2, T2000-3 and T2000-4 (PC A/Ns 512793, 512794, 512795 and 51796, respectively) to no more than 16 times in any one calendar month.

[RULE 1303(B)(2)-OFFSET, 5-10-1996]

3. The operator shall not store in this tank crude oils having a true vapor pressure (TVP) of greater than 10 psia or partially refined petroleum/intermediate feedstock having a TVP of greater than 5 psia under actual storing conditions. To demonstrate compliance with this condition, the operator shall determine vapor pressures of the materials stored in the storage tank using one of the following methods:
  - a. Sample and test the material stored
  - b. Use engineering method to calculate the vapor pressure of material stored
  - c. Provide material safety data sheet (MSDS) that show vapor pressure of material stored

[RULE 1303(b)(2)-Offset, 5-10-1996; Rule 1401, 3-5-2005]

4. This tank shall not store finished petroleum products or carbon black oil (CBO).

[RULE 1401, 6-5-2009]

5. The operator shall construct, operate, and maintain this tank as follows:
  - a. All roof openings and fittings for the internal floating-type cover shall meet the requirements of Rule 1178 (d)(1)(A)(i) through (d)(1)(A)(xiv), as applicable.
  - b. The rim seals for the internal floating-type cover shall meet the requirements of Rule 1178 (d)(1)(B)(i) through (d)(1)(B)(xi), as applicable.
  - c. Complete gap measurements of the rim seal system shall be performed by District certified personnel each time the tank is emptied and degassed for a continuous period of 10 days or more. Measurements shall be conducted by District certified personnel in accordance with Rule 1178 Attachment A – Inspection Procedures and Compliance Report Forms. However, such complete gap measurements, once completed, may not be required for five years; but it shall be conducted at least once every 10 years
  - d. The concentration of organic vapor in the vapor space above the internal floating-type cover shall not exceed 30% of its lower explosive limit (LEL). The LEL levels in the vapor space above the internal floating-type cover shall be measured by District certified personnel on a semiannual basis. Measurements shall be conducted by District certified personnel in accordance with Rule 463 Attachment B – Inspection Procedures and Compliance Report Form, Part E.

[RULE 1303(a)(1)-BACT, 5-10-1996; Rule 3004 (a)(4) – Periodic Monitoring, 12-12-1997]



**FACILITY PERMIT TO OPERATE  
PACIFIC L.A. MARINE TERMINAL, LLC**

6. This storage tank is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1178
VOC	District Rule	463
VOC	District Rule	1149
VOC	40 CFR60	Kb

For the purpose of this condition, District Rule 1178 is not applicable to the tank until the VOC emissions for this facility exceeds 20 tons per year as reported under Rule 301.

[RULE 1149, 5-2-2008; RULE 1178, 4-7-2006; RULE 463, 5-6-2005; 40CFR 60 SUBPART Kb, 10-15-2003]

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

Whenever this tank is being degassed or filled prior to the roof being refloated, it shall be connected to the tank cleaning/degassing vapor control unit (A/N 460679) which is in full use and has been issued a valid permit to operate by the District.

This tank shall vent to the vapor control unit while its floating roof is resting on leg support until the VOC concentration within the tank is reduced to less than 5,000 ppmv, measured as methane, for at least one hour after the shutdown of the air pollution control system.

The operator may elect not venting this tank to the vapor control unit if the tank contained or last contained organic liquid with a Reid vapor pressure (RVP) of 0.5 psia or less under actual storage condition before being drained dry. The operator shall maintain and make available to the Executive Officer upon request RVP data of the liquid stored in the tank before it is emptied.

[RULE 1149, 5-2-2008]

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

Throughput, vapor pressure of stored liquid, and other records required to demonstrate compliance with permit conditions.

The start and end dates and times when this tank has a roof-landing event including the numbers of degassing hours.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

9. The operator shall provide to the District the following items:

Final drawings and/or specifications of tank rim seals, deck fittings, floating roof and all other roof openings for this tank. All items shall be submitted to the District within 60 days after installation.

[RULE 1303(b)(2)-Offset, 5-10-1996]



**FACILITY PERMIT TO OPERATE  
PACIFIC L.A. MARINE TERMINAL, LLC**

**PERMIT TO CONSTRUCT**

**A/N 512796  
Granted 9/30/11**

**Equipment Description:**

STORAGE TANK T2000-4, CRUDE OIL, PARTIALLY REFINED PETROLEUM/INTERMEDIATE FEEDSTOCK, 265'-0" DIA. X 64'-0" H., 500,000 BBL. CAPACITY, INTERNAL FLOATING ROOF, WELDED SHELL, WITH METALLIC SHOE PRIMARY SEAL AND RIM-MOUNTED MULTIPLE WIPER TYPE SECONDARY SEAL, CONNECTED TO A VAPOR CONTROL UNIT

**Conditions:**

1. The operator shall limit total emissions excluding roof landing emissions from storage tanks T2000-1, T2000-2, T2000-3 and T2000-4 (PC A/Ns 512793, 512794, 512795 and 512796, respectively) as follows:

Contaminant	Emission Limit, lbs per calendar month
VOC	3,444

The operator shall use US EPA's TANKS4.0 software (latest version) and the method described below for calculating emissions from each storage tank subject to this condition.

The operator shall multiply monthly throughput determined as shown below by 12 for the turnovers per year input into TANKS 4.0 program.

The operator shall calculate the throughput, in barrels, by the following equation:  $V \times L/h$ , where V is the volume of the tank in barrels, L is the total vertical one-way liquid surface travel in feet per month and h is the height of the tank in feet. V and h shall be based the most recent strapping chart measurements, and L shall be actual measurement taken by an automatic tank level gauge (ATLG) meeting below requirements.

The operator shall install and maintain an automatic tank level gauge (ATLG) and recorder to record continuously the vertical movement of the tank level. For the purpose of this condition, continuous recording is defined as once every 15 minutes.

The operator shall calculate the total one-way liquid surface level movement, in feet, on a daily and monthly basis.

The ATLG installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLG differs from the manual measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLG shall be repaired and put back into service within 10 days. While the ATLG is being repaired, throughput shall be determined by hourly tank level data averaged for the previous 30 days, prior to the discovery of the discrepancy.

In the event of a failure or routine maintenance of the ATLG, the ATLG shall be repaired (if necessary) and put back into service within 10 days of the time that the ATLG failed or was removed from service for maintenance. While the ATLG is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the ATLG went out of service.



## FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL, LLC

The operator shall use actual physical characteristics of the tank, best available meteorological data and vapor pressures under actual storage conditions of liquids stored in the tank to input into TANKS 4.0 program.

[RULE 1303(B)(2)-OFFSET, 5-10-1996]

2. The operator shall limit the total number of roof landings for drain-dry, degassing and cleaning of storage tanks T2000-1, T2000-2, T2000-3 and T2000-4 (PC A/Ns 512793, 512794, 512795 and 51796, respectively) to no more than 16 times in any one calendar month.

[RULE 1303(B)(2)-OFFSET, 5-10-1996]

3. The operator shall not store in this tank crude oils having a true vapor pressure (TVP) of greater than 10 psia or partially refined petroleum/intermediate feedstock having a TVP of greater than 5 psia under actual storing conditions. To demonstrate compliance with this condition, the operator shall determine vapor pressures of the materials stored in the storage tank using one of the following methods:
  - a. Sample and test the material stored
  - b. Use engineering method to calculate the vapor pressure of material stored
  - c. Provide material safety data sheet (MSDS) that show vapor pressure of material stored

[RULE 1303(b)(2)-Offset, 5-10-1996; Rule 1401, 3-5-2005]

4. This tank shall not store finished petroleum products or carbon black oil (CBO).

[RULE 1401, 6-5-2009]

5. The operator shall construct, operate, and maintain this tank as follows:
  - a. All roof openings and fittings for the internal floating-type cover shall meet the requirements of Rule 1178 (d)(1)(A)(i) through (d)(1)(A)(xiv), as applicable.
  - b. The rim seals for the internal floating-type cover shall meet the requirements of Rule 1178 (d)(1)(B)(i) through (d)(1)(B)(xi), as applicable.
  - c. Complete gap measurements of the rim seal system shall be performed by District certified personnel each time the tank is emptied and degassed for a continuous period of 10 days or more. Measurements shall be conducted by District certified personnel in accordance with Rule 1178 Attachment A – Inspection Procedures and Compliance Report Forms. However, such complete gap measurements, once completed, may not be required for five years; but it shall be conducted at least once every 10 years
  - d. The concentration of organic vapor in the vapor space above the internal floating-type cover shall not exceed 30% of its lower explosive limit (LEL). The LEL levels in the vapor space above the internal floating-type cover shall be measured by District certified personnel on a semiannual basis. Measurements shall be conducted by District certified personnel in accordance with Rule 463 Attachment B – Inspection Procedures and Compliance Report Form, Part E.

[RULE 1303(a)(1)-BACT, 5-10-1996; Rule 3004 (a)(4) – Periodic Monitoring, 12-12-1997]



## FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL, LLC

6. This storage tank is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1178
VOC	District Rule	463
VOC	District Rule	1149
VOC	40 CFR60	Kb

For the purpose of this condition, District Rule 1178 is not applicable to the tank until the VOC emissions for this facility exceeds 20 tons per year as reported under Rule 301.

[RULE 1149, 5-2-2008; RULE 1178, 4-7-2006; RULE 463, 5-6-2005; 40CFR 60 SUBPART Kb, 10-15-2003]

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

Whenever this tank is being degassed or filled prior to the roof being refloated, it shall be connected to the vapor collection and disposal system (A/N 460679) which is in full use and has been issued a valid permit to operate by the District.

This tank shall vent to the vapor control unit while its floating roof is resting on leg support until the VOC concentration within the tank is reduced to less than 5,000 ppmv, measured as methane, for at least one hour after the shutdown of the air pollution control system.

The operator may elect not venting this tank to the vapor control unit if the tank contained or last contained organic liquid with a Reid vapor pressure (RVP) of 0.5 psia or less under actual storage condition before being drained dry. The operator shall maintain and make available to the Executive Officer upon request RVP data of the liquid stored in the tank before it is emptied.

[RULE 1149, 5-2-2008]

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

Throughput, vapor pressure of stored liquid, and other records required to demonstrate compliance with permit conditions.

The start and end dates and times when this tank has a roof-landing event including the numbers of degassing hours.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

9. The operator shall provide to the District the following items:

Final drawings and/or specifications of tank rim seals, deck fittings, floating roof and all other roof openings for this tank. All items shall be submitted to the District within 60 days after installation.

[RULE 1303(b)(2)-Offset, 5-10-1996]



**FACILITY PERMIT TO OPERATE  
PACIFIC L.A. MARINE TERMINAL, LLC**

**PERMIT TO CONSTRUCT**

**A/N 450095  
Granted 9/30/11**

**Equipment Description:**

STORAGE TANK T2000-5, CRUDE OIL, PARTIALLY REFINED PETROLEUM/INTERMEDIATE FEEDSTOCK, 185'-0" DIA. X 64'-0" H., 250,000 BBL. CAPACITY, INTERNAL FLOATING ROOF, WELDED SHELL, WITH METALLIC SHOE PRIMARY SEAL AND RIM-MOUNTED MULTIPLE WIPER TYPE SECONDARY SEAL, CONNECTED TO A VAPOR CONTROL UNIT

**Conditions:**

- The operator shall limit total emissions excluding roof landing emissions from storage tanks T2000-5, T2000-6, T2000-7 and T2000-8 (PC A/Ns 450095, 450097, 450098 and 450099, respectively) as follows:

Contaminant	Emission Limit, lbs per calendar month
VOC	2,352

The operator shall use US EPA's TANKS4.0 software (latest version) and the method described below for calculating emissions from each storage tank subject to this condition.

The operator shall multiply monthly throughput determined as shown below by 12 for the turnovers per year input into TANKS 4.0 program.

The operator shall calculate the throughput, in barrels, by the following equation:  $V \times L/h$ , where V is the volume of the tank in barrels, L is the total vertical one-way liquid surface level travel in feet per month and h is the height of the tank in feet. V and h shall be based the most recent strapping chart measurements, and L shall be actual measurement taken by an automatic tank level gauge (ATLG) meeting below requirements.

The operator shall install and maintain an automatic tank level gauge (ATLG) and recorder to record continuously the vertical movement of the tank level. For the purpose of this condition, continuous recording is defined as once every 15 minutes.

The operator shall calculate the total one-way liquid surface level movement, in feet, on a daily and monthly basis.

The ATLG installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLG differs from the manual measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLG shall be repaired and put back into service within 10 days. While the ATLG is being repaired, throughput shall be determined by hourly tank level data averaged for the previous 30 days, prior to the discovery of the discrepancy.

In the event of a failure or routine maintenance of the ATLG, the ATLG shall be repaired (if necessary) and put back into service within 10 days of the time that the ATLG failed or was removed from service for maintenance. While the ATLG is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the ATLG went out of service.



## FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL, LLC

The operator shall use actual physical characteristics of the tank, best available meteorological data and vapor pressures under actual storage conditions of liquids stored in the tank to input into TANKS 4.0 program.

[RULE 1303(B)(2)-OFFSET, 5-10-1996]

2. The operator shall limit the total number of roof landings for drain-dry, degassing and cleaning of storage tanks T2000-5, T2000-6, T2000-7 and T2000-8 (PC A/Ns 450095, 450097, 450098 and 450099, respectively) to no more than 8 times in any one calendar month.

[RULE 1303(B)(2)-OFFSET, 5-10-1996]

3. The operator shall not store in this tank crude oils having a true vapor pressure (TVP) of greater than 10 psia or partially refined petroleum/intermediate feedstock having a TVP of greater than 5 psia under actual storing conditions. To demonstrate compliance with this condition, the operator shall determine vapor pressures of the materials stored in the storage tank using one of the following methods:
  - a. Sample and test the material stored
  - b. Use engineering method to calculate the vapor pressure of material stored
  - c. Provide material safety data sheet (MSDS) that show vapor pressure of material stored

[RULE 1303(b)(2)-Offset, 5-10-1996; Rule 1401, 3-5-2005]

4. This tank shall not store finished petroleum products or carbon black oil (CBO).

[RULE 1401, 6-5-2009]

5. The operator shall construct, operate, and maintain this tank as follows:
  - a. All roof openings and fittings for the internal floating-type cover shall meet the requirements of Rule 1178 (d)(1)(A)(i) through (d)(1)(A)(xiv), as applicable.
  - b. The rim seals for the internal floating-type cover shall meet the requirements of Rule 1178 (d)(1)(B)(i) through (d)(1)(B)(xi), as applicable.
  - c. Complete gap measurements of the rim seal system shall be performed by District certified personnel each time the tank is emptied and degassed for a continuous period of 10 days or more. Measurements shall be conducted by District certified personnel in accordance with Rule 1178 Attachment A – Inspection Procedures and Compliance Report Forms. However, such complete gap measurements, once completed, may not be required for five years; but it shall be conducted at least once every 10 years
  - d. The concentration of organic vapor in the vapor space above the internal floating-type cover shall not exceed 30% of its lower explosive limit (LEL). The LEL levels in the vapor space above the internal floating-type cover shall be measured by District certified personnel on a semiannual basis. Measurements shall be conducted by District certified personnel in accordance with Rule 463 Attachment B – Inspection Procedures and Compliance Report Form, Part E.

[RULE 1303(a)(1)-BACT, 5-10-1996; Rule 3004 (a)(4) – Periodic Monitoring, 12-12-1997]



## FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL, LLC

6. This storage tank is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1178
VOC	District Rule	463
VOC	District Rule	1149
VOC	40 CFR60	Kb

For the purpose of this condition, District Rule 1178 is not applicable to the tank until the VOC emissions for this facility exceeds 20 tons per year as reported under Rule 301.

[RULE 1149, 5-2-2008; RULE 1178, 4-7-2006; RULE 463, 5-6-2005; 40CFR 60 SUBPART Kb, 10-15-2003]

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

Whenever this tank is being degassed or filled prior to the roof being refloated, it shall be connected to the tank cleaning/degassing vapor control unit (A/N 460679) which is in full use and has been issued a valid permit to operate by the District.

This tank shall vent to the vapor control unit while its floating roof is resting on leg support until the VOC concentration within the tank is reduced to less than 5,000 ppmv, measured as methane, for at least one hour after the shutdown of the air pollution control system.

The operator may elect not venting this tank to the vapor control unit if the tank contained or last contained organic liquid with a Reid vapor pressure (RVP) of 0.5 psia or less under actual storage condition before being drained dry. The operator shall maintain and make available to the Executive Officer upon request RVP data of the liquid stored in the tank before it is emptied.

[RULE 1149, 5-2-2008]

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

Throughput, vapor pressure of stored liquid, and other records required to demonstrate compliance with permit conditions.

The start and end dates and times when this tank has a roof-landing event including the numbers of degassing hours.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

9. The operator shall provide to the District the following items:

Final drawings and/or specifications of tank rim seals, deck fittings, floating roof and all other roof openings for this tank. All items shall be submitted to the District within 60 days after installation.

[RULE 1303(b)(2)-Offset, 5-10-1996]



**FACILITY PERMIT TO OPERATE  
PACIFIC L.A. MARINE TERMINAL, LLC**

**PERMIT TO CONSTRUCT**

**A/N 450097  
Granted 9/30/11**

**Equipment Description:**

STORAGE TANK T2000-6, CRUDE OIL, PARTIALLY REFINED PETROLEUM/INTERMEDIATE FEEDSTOCK, 185'-0" DIA. X 64'-0" H., 250,000 BBL. CAPACITY, INTERNAL FLOATING ROOF, WELDED SHELL, WITH METALLIC SHOE PRIMARY SEAL AND RIM-MOUNTED MULTIPLE WIPER TYPE SECONDARY SEAL, CONNECTED TO A VAPOR CONTROL UNIT

**Conditions:**

- 1. The operator shall limit total emissions excluding roof landing emissions from storage tanks T2000-5, T2000-6, T2000-7 and T2000-8 (PC A/Ns 450095, 450097, 450098 and 450099, respectively) as follows:

Contaminant	Emission Limit, lbs per calendar month
VOC	2,352

The operator shall use US EPA's TANKS4.0 software (latest version) and the method described below for calculating emissions from each storage tank subject to this condition.

The operator shall multiply monthly throughput determined as shown below by 12 for the turnovers per year input into TANKS 4.0 program.

The operator shall calculate the throughput, in barrels, by the following equation:  $V \times L/h$ , where V is the volume of the tank in barrels, L is the total vertical one-way liquid surface level travel in feet per month and h is the height of the tank in feet. V and h shall be based the most recent strapping chart measurements, and L shall be actual measurement taken by an automatic tank level gauge (ATLG) meeting below requirements.

The operator shall install and maintain an automatic tank level gauge (ATLG) and recorder to record continuously the vertical movement of the tank level. For the purpose of this condition, continuous recording is defined as once every 15 minutes.

The operator shall calculate the total one-way liquid surface level movement, in feet, on a daily and monthly basis.

The ATLG installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLG differs from the manual measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLG shall be repaired and put back into service within 10 days. While the ATLG is being repaired, throughput shall be determined by hourly tank level data averaged for the previous 30 days, prior to the discovery of the discrepancy.

In the event of a failure or routine maintenance of the ATLG, the ATLG shall be repaired (if necessary) and put back into service within 10 days of the time that the ATLG failed or was removed from service for maintenance. While the ATLG is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the ATLG went out of service.



## FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL, LLC

The operator shall use actual physical characteristics of the tank, best available meteorological data and vapor pressures under actual storage conditions of liquids stored in the tank to input into TANKS 4.0 program.

[RULE 1303(B)(2)-OFFSET, 5-10-1996]

2. The operator shall limit the total number of roof landings for drain-dry, degassing and cleaning of storage tanks T2000-5, T2000-6, T2000-7 and T2000-8 (PC A/Ns 450095, 450097, 450098 and 450099, respectively) to no more than 8 times in any one calendar month.

[RULE 1303(B)(2)-OFFSET, 5-10-1996]

3. The operator shall not store in this tank crude oils having a true vapor pressure (TVP) of greater than 10 psia or partially refined petroleum/intermediate feedstock having a TVP of greater than 5 psia under actual storing conditions. To demonstrate compliance with this condition, the operator shall determine vapor pressures of the materials stored in the storage tank using one of the following methods:
  - a. Sample and test the material stored
  - b. Use engineering method to calculate the vapor pressure of material stored
  - c. Provide material safety data sheet (MSDS) that show vapor pressure of material stored

[RULE 1303(b)(2)-Offset, 5-10-1996; Rule 1401, 3-5-2005]

4. This tank shall not store finished petroleum products or carbon black oil (CBO).

[RULE 1401, 6-5-2009]

5. The operator shall construct, operate, and maintain this tank as follows:
  - a. All roof openings and fittings for the internal floating-type cover shall meet the requirements of Rule 1178 (d)(1)(A)(i) through (d)(1)(A)(xiv), as applicable.
  - b. The rim seals for the internal floating-type cover shall meet the requirements of Rule 1178 (d)(1)(B)(i) through (d)(1)(B)(xi), as applicable.
  - c. Complete gap measurements of the rim seal system shall be performed by District certified personnel each time the tank is emptied and degassed for a continuous period of 10 days or more. Measurements shall be conducted by District certified personnel in accordance with Rule 1178 Attachment A – Inspection Procedures and Compliance Report Forms. However, such complete gap measurements, once completed, may not be required for five years; but it shall be conducted at least once every 10 years
  - d. The concentration of organic vapor in the vapor space above the internal floating-type cover shall not exceed 30% of its lower explosive limit (LEL). The LEL levels in the vapor space above the internal floating-type cover shall be measured by District certified personnel on a semiannual basis. Measurements shall be conducted by District certified personnel in accordance with Rule 463 Attachment B – Inspection Procedures and Compliance Report Form, Part E.

[RULE 1303(a)(1)-BACT, 5-10-1996; Rule 3004 (a)(4) – Periodic Monitoring, 12-12-1997]



## FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL, LLC

6. This storage tank is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1178
VOC	District Rule	463
VOC	District Rule	1149
VOC	40 CFR60	Kb

For the purpose of this condition, District Rule 1178 is not applicable to the tank until the VOC emissions for this facility exceeds 20 tons per year as reported under Rule 301.

[RULE 1149, 5-2-2008; RULE 1178, 4-7-2006; RULE 463, 5-6-2005; 40CFR 60 SUBPART Kb, 10-15-2003]

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

Whenever this tank is being degassed or filled prior to the roof being refloated, it shall be connected to the tank cleaning/degassing vapor control unit (A/N 460679) which is in full use and has been issued a valid permit to operate by the District.

This tank shall vent to the vapor control unit while its floating roof is resting on leg support until the VOC concentration within the tank is reduced to less than 5,000 ppmv, measured as methane, for at least one hour after the shutdown of the air pollution control system.

The operator may elect not venting this tank to the vapor control unit if the tank contained or last contained organic liquid with a Reid vapor pressure (RVP) of 0.5 psia or less under actual storage condition before being drained dry. The operator shall maintain and make available to the Executive Officer upon request RVP data of the liquid stored in the tank before it is emptied.

[RULE 1149, 5-2-2008]

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

Throughput, vapor pressure of stored liquid, and other records required to demonstrate compliance with permit conditions.

The start and end dates and times when this tank has a roof-landing event including the numbers of degassing hours.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

9. The operator shall provide to the District the following items:

Final drawings and/or specifications of tank rim seals, deck fittings, floating roof and all other roof openings for this tank. All items shall be submitted to the District within 60 days after installation.

[RULE 1303(b)(2)-Offset, 5-10-1996]



**FACILITY PERMIT TO OPERATE  
PACIFIC L.A. MARINE TERMINAL, LLC**

**PERMIT TO CONSTRUCT**

**A/N 450098  
Granted 9/30/11**

**Equipment Description:**

STORAGE TANK T2000-7, CRUDE OIL, PARTIALLY REFINED PETROLEUM/INTERMEDIATE FEEDSTOCK, 185'-0" DIA. X 64'-0" H., 250,000 BBL. CAPACITY, INTERNAL FLOATING ROOF, WELDED SHELL, WITH METALLIC SHOE PRIMARY SEAL AND RIM-MOUNTED MULTIPLE WIPER TYPE SECONDARY SEAL, CONNECTED TO A VAPOR CONTROL UNIT

**Conditions:**

- The operator shall limit total emissions excluding roof landing emissions from storage tanks T2000-5, T2000-6, T2000-7 and T2000-8 (PC A/Ns 450095, 450097, 450098 and 450099, respectively) as follows:

Contaminant	Emission Limit, lbs per calendar month
VOC	2,352

The operator shall use US EPA's TANKS4.0 software (latest version) and the method described below for calculating emissions from each storage tank subject to this condition.

The operator shall multiply monthly throughput determined as shown below by 12 for the turnovers per year input into TANKS 4.0 program.

The operator shall calculate the throughput, in barrels, by the following equation:  $V \times L/h$ , where V is the volume of the tank in barrels, L is the total vertical one-way liquid surface level travel in feet per month and h is the height of the tank in feet. V and h shall be based the most recent strapping chart measurements, and L shall be actual measurement taken by an automatic tank level gauge (ATLG) meeting below requirements.

The operator shall install and maintain an automatic tank level gauge (ATLG) and recorder to record continuously the vertical movement of the tank level. For the purpose of this condition, continuous recording is defined as once every 15 minutes.

The operator shall calculate the total one-way liquid surface level movement, in feet, on a daily and monthly basis.

The ATLG installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLG differs from the manual measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLG shall be repaired and put back into service within 10 days. While the ATLG is being repaired, throughput shall be determined by hourly tank level data averaged for the previous 30 days, prior to the discovery of the discrepancy.

In the event of a failure or routine maintenance of the ATLG, the ATLG shall be repaired (if necessary) and put back into service within 10 days of the time that the ATLG failed or was removed from service for maintenance. While the ATLG is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the ATLG went out of service.



## FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL, LLC

The operator shall use actual physical characteristics of the tank, best available meteorological data and vapor pressures under actual storage conditions of liquids stored in the tank to input into TANKS 4.0 program.

[RULE 1303(B)(2)-OFFSET, 5-10-1996]

2. The operator shall limit the total number of roof landings for drain-dry, degassing and cleaning of storage tanks T2000-5, T2000-6, T2000-7 and T2000-8 (PC A/Ns 450095, 450097, 450098 and 450099, respectively) to no more than 8 times in any one calendar month.

[RULE 1303(B)(2)-OFFSET, 5-10-1996]

3. The operator shall not store in this tank crude oils having a true vapor pressure (TVP) of greater than 10 psia or partially refined petroleum/intermediate feedstock having a TVP of greater than 5 psia under actual storing conditions. To demonstrate compliance with this condition, the operator shall determine vapor pressures of the materials stored in the storage tank using one of the following methods:
  - a. Sample and test the material stored
  - b. Use engineering method to calculate the vapor pressure of material stored
  - c. Provide material safety data sheet (MSDS) that show vapor pressure of material stored

[RULE 1303(b)(2)-Offset, 5-10-1996; Rule 1401, 3-5-2005]

4. This tank shall not store finished petroleum products or carbon black oil (CBO).

[RULE 1401, 6-5-2009]

5. The operator shall construct, operate, and maintain this tank as follows:
  - a. All roof openings and fittings for the internal floating-type cover shall meet the requirements of Rule 1178 (d)(1)(A)(i) through (d)(1)(A)(xiv), as applicable.
  - b. The rim seals for the internal floating-type cover shall meet the requirements of Rule 1178 (d)(1)(B)(i) through (d)(1)(B)(xi), as applicable.
  - c. Complete gap measurements of the rim seal system shall be performed by District certified personnel each time the tank is emptied and degassed for a continuous period of 10 days or more. Measurements shall be conducted by District certified personnel in accordance with Rule 1178 Attachment A – Inspection Procedures and Compliance Report Forms. However, such complete gap measurements, once completed, may not be required for five years; but it shall be conducted at least once every 10 years
  - d. The concentration of organic vapor in the vapor space above the internal floating-type cover shall not exceed 30% of its lower explosive limit (LEL). The LEL levels in the vapor space above the internal floating-type cover shall be measured by District certified personnel on a semiannual basis. Measurements shall be conducted by District certified personnel in accordance with Rule 463 Attachment B – Inspection Procedures and Compliance Report Form, Part E.

[RULE 1303(a)(1)-BACT, 5-10-1996; Rule 3004 (a)(4) – Periodic Monitoring, 12-12-1997]



**FACILITY PERMIT TO OPERATE  
PACIFIC L.A. MARINE TERMINAL, LLC**

6. This storage tank is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1178
VOC	District Rule	463
VOC	District Rule	1149
VOC	40 CFR60	Kb

For the purpose of this condition, District Rule 1178 is not applicable to the tank until the VOC emissions for this facility exceeds 20 tons per year as reported under Rule 301.

[RULE 1149, 5-2-2008; RULE 1178, 4-7-2006; RULE 463, 5-6-2005; 40CFR 60 SUBPART Kb, 10-15-2003]

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

Whenever this tank is being degassed or filled prior to the roof being refloated, it shall be connected to the tank cleaning/degassing vapor control unit (A/N 460679) which is in full use and has been issued a valid permit to operate by the District.

This tank shall vent to the vapor control unit while its floating roof is resting on leg support until the VOC concentration within the tank is reduced to less than 5,000 ppmv, measured as methane, for at least one hour after the shutdown of the air pollution control system.

The operator may elect not venting this tank to the vapor control unit if the tank contained or last contained organic liquid with a Reid vapor pressure (RVP) of 0.5 psia or less under actual storage condition before being drained dry. The operator shall maintain and make available to the Executive Officer upon request RVP data of the liquid stored in the tank before it is emptied.

[RULE 1149, 5-2-2008]

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

Throughput, vapor pressure of stored liquid, and other records required to demonstrate compliance with permit conditions.

The start and end dates and times when this tank has a roof-landing event including the numbers of degassing hours.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

9. The operator shall provide to the District the following items:

Final drawings and/or specifications of tank rim seals, deck fittings, floating roof and all other roof openings for this tank. All items shall be submitted to the District within 60 days after installation.

[RULE 1303(b)(2)-Offset, 5-10-1996]



**FACILITY PERMIT TO OPERATE  
PACIFIC L.A. MARINE TERMINAL, LLC**

**PERMIT TO CONSTRUCT**

**A/N 450099  
Granted 9/30/11**

**Equipment Description:**

STORAGE TANK T2000-8, CRUDE OIL, PARTIALLY REFINED PETROLEUM/INTERMEDIATE FEEDSTOCK, 185'-0" DIA. X 64'-0" H., 250,000 BBL. CAPACITY, INTERNAL FLOATING ROOF, WELDED SHELL, WITH METALLIC SHOE PRIMARY SEAL AND RIM-MOUNTED MULTIPLE WIPER TYPE SECONDARY SEAL, CONNECTED TO A VAPOR CONTROL UNIT

**Conditions:**

- The operator shall limit total emissions excluding roof landing emissions from storage tanks T2000-5, T2000-6, T2000-7 and T2000-8 (PC A/Ns 450095, 450097, 450098 and 450099, respectively) as follows:

Contaminant	Emission Limit, lbs per calendar month
VOC	2,352

The operator shall use US EPA's TANKS4.0 software (latest version) and the method described below for calculating emissions from each storage tank subject to this condition.

The operator shall multiply monthly throughput determined as shown below by 12 for the turnovers per year input into TANKS 4.0 program.

The operator shall calculate the throughput, in barrels, by the following equation:  $V \times L/h$ , where V is the volume of the tank in barrels, L is the total vertical one-way liquid surface level travel in feet per month and h is the height of the tank in feet. V and h shall be based the most recent strapping chart measurements, and L shall be actual measurement taken by an automatic tank level gauge (ATLG) meeting below requirements.

The operator shall install and maintain an automatic tank level gauge (ATLG) and recorder to record continuously the vertical movement of the tank level. For the purpose of this condition, continuous recording is defined as once every 15 minutes.

The operator shall calculate the total one-way liquid surface level movement, in feet, on a daily and monthly basis.

The ATLG installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLG differs from the manual measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLG shall be repaired and put back into service within 10 days. While the ATLG is being repaired, throughput shall be determined by hourly tank level data averaged for the previous 30 days, prior to the discovery of the discrepancy.

In the event of a failure or routine maintenance of the ATLG, the ATLG shall be repaired (if necessary) and put back into service within 10 days of the time that the ATLG failed or was removed from service for maintenance. While the ATLG is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the ATLG went out of service.



## FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL, LLC

The operator shall use actual physical characteristics of the tank, best available meteorological data and vapor pressures under actual storage conditions of liquids stored in the tank to input into TANKS 4.0 program.

[RULE 1303(B)(2)-OFFSET, 5-10-1996]

2. The operator shall limit the total number of roof landings for drain-dry, degassing and cleaning of storage tanks T2000-5, T2000-6, T2000-7 and T2000-8 (PC A/Ns 450095, 450097, 450098 and 450099, respectively) to no more than 8 times in any one calendar month.

[RULE 1303(B)(2)-OFFSET, 5-10-1996]

3. The operator shall not store in this tank crude oils having a true vapor pressure (TVP) of greater than 10 psia or partially refined petroleum/intermediate feedstock having a TVP of greater than 5 psia under actual storing conditions. To demonstrate compliance with this condition, the operator shall determine vapor pressures of the materials stored in the storage tank using one of the following methods:
  - a. Sample and test the material stored
  - b. Use engineering method to calculate the vapor pressure of material stored
  - c. Provide material safety data sheet (MSDS) that show vapor pressure of material stored

[RULE 1303(b)(2)-Offset, 5-10-1996; Rule 1401, 3-5-2005]

4. This tank shall not store finished petroleum products or carbon black oil (CBO).

[RULE 1401, 6-5-2009]

5. The operator shall construct, operate, and maintain this tank as follows:
  - a. All roof openings and fittings for the internal floating-type cover shall meet the requirements of Rule 1178 (d)(1)(A)(i) through (d)(1)(A)(xiv), as applicable.
  - b. The rim seals for the internal floating-type cover shall meet the requirements of Rule 1178 (d)(1)(B)(i) through (d)(1)(B)(xi), as applicable.
  - c. Complete gap measurements of the rim seal system shall be performed by District certified personnel each time the tank is emptied and degassed for a continuous period of 10 days or more. Measurements shall be conducted by District certified personnel in accordance with Rule 1178 Attachment A – Inspection Procedures and Compliance Report Forms. However, such complete gap measurements, once completed, may not be required for five years; but it shall be conducted at least once every 10 years
  - d. The concentration of organic vapor in the vapor space above the internal floating-type cover shall not exceed 30% of its lower explosive limit (LEL). The LEL levels in the vapor space above the internal floating-type cover shall be measured by District certified personnel on a semiannual basis. Measurements shall be conducted by District certified personnel in accordance with Rule 463 Attachment B – Inspection Procedures and Compliance Report Form, Part E.

[RULE 1303(a)(1)-BACT, 5-10-1996; Rule 3004 (a)(4) – Periodic Monitoring, 12-12-1997]



**FACILITY PERMIT TO OPERATE  
PACIFIC L.A. MARINE TERMINAL, LLC**

6. This storage tank is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1178
VOC	District Rule	463
VOC	District Rule	1149
VOC	40 CFR60	Kb

For the purpose of this condition, District Rule 1178 is not applicable to the tank until the VOC emissions for this facility exceeds 20 tons per year as reported under Rule 301.

[RULE 1149, 5-2-2008; RULE 1178, 4-7-2006; RULE 463, 5-6-2005; 40CFR 60 SUBPART Kb, 10-15-2003]

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

Whenever this tank is being degassed or filled prior to the roof being refloated, it shall be connected to the tank cleaning/degassing vapor control unit (A/N 460679) which is in full use and has been issued a valid permit to operate by the District.

This tank shall vent to the vapor control unit while its floating roof is resting on leg support until the VOC concentration within the tank is reduced to less than 5,000 ppmv, measured as methane, for at least one hour after the shutdown of the air pollution control system.

The operator may elect not venting this tank to the vapor control unit if the tank contained or last contained organic liquid with a Reid vapor pressure (RVP) of 0.5 psia or less under actual storage condition before being drained dry. The operator shall maintain and make available to the Executive Officer upon request RVP data of the liquid stored in the tank before it is emptied.

[RULE 1149, 5-2-2008]

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

Throughput, vapor pressure of stored liquid, and other records required to demonstrate compliance with permit conditions.

The start and end dates and times when this tank has a roof-landing event including the numbers of degassing hours.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

9. The operator shall provide to the District the following items:

Final drawings and/or specifications of tank rim seals, deck fittings, floating roof and all other roof openings for this tank. All items shall be submitted to the District within 60 days after installation.

[RULE 1303(b)(2)-Offset, 5-10-1996]



**FACILITY PERMIT TO OPERATE  
PACIFIC L.A. MARINE TERMINAL, LLC**

**PERMIT TO CONSTRUCT**

**A/N 512797  
Granted 9/30/11**

**Equipment Description:**

STORAGE TANK T2000-9, CRUDE OIL, PARTIALLY REFINED PETROLEUM/INTERMEDIATE FEEDSTOCK, 265'-0" DIA. X 64'-0" H., 500,000 BBL. CAPACITY, INTERNAL FLOATING ROOF, WELDED SHELL, WITH METALLIC SHOE PRIMARY SEAL AND RIM-MOUNTED MULTIPLE WIPER TYPE SECONDARY SEAL, CONNECTED TO A VAPOR CONTROL UNIT

**Conditions:**

1. The operator shall limit total emissions excluding roof landing emissions from storage tanks T2000-9 and T2000-10 (PC A/Ns 512797 and 512798, respectively) as follows:

Contaminant	Emission Limit, lbs per calendar month
VOC	1,722

The operator shall use US EPA's TANKS4.0 software (latest version) and the method described below for calculating emissions from each storage tank subject to this condition.

The operator shall multiply monthly throughput determined as shown below by 12 for the turnovers per year input into TANKS 4.0 program.

The operator shall calculate the throughput, in barrels, by the following equation:  $V \times L/h$ , where V is the volume of the tank in barrels, L is the total vertical one-way liquid surface level travel in feet per month and h is the height of the tank in feet. V and h shall be based the most recent strapping chart measurements, and L shall be actual measurement taken by an automatic tank level gauge (ATLG) meeting below requirements.

The operator shall install and maintain an automatic tank level gauge (ATLG) and recorder to record continuously the vertical movement of the tank level. For the purpose of this condition, continuous recording is defined as once every 15 minutes.

The operator shall calculate the total one-way liquid surface level movement, in feet, on a daily and monthly basis.

The ATLG installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLG differs from the manual measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLG shall be repaired and put back into service within 10 days. While the ATLG is being repaired, throughput shall be determined by hourly tank level data averaged for the previous 30 days, prior to the discovery of the discrepancy.

In the event of a failure or routine maintenance of the ATLG, the ATLG shall be repaired (if necessary) and put back into service within 10 days of the time that the ATLG failed or was removed from service for maintenance. While the ATLG is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the ATLG went out of service.



## FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL, LLC

The operator shall use actual physical characteristics of the tank, best available meteorological data and vapor pressures under actual storage conditions of liquids stored in the tank to input into TANKS 4.0 program.

[RULE 1303(B)(2)-OFFSET, 5-10-1996]

2. The operator shall limit the total number of roof landings for drain-dry, degassing and cleaning of storage tanks T2000-9 and T2000-10 (PC A/Ns 512797 and 512798, respectively) to no more than 6 times in any one calendar month.

[RULE 1303(B)(2)-OFFSET, 5-10-1996]

3. The operator shall not store in this tank crude oils having a true vapor pressure (TVP) of greater than 10 psia or partially refined petroleum/intermediate feedstock having a TVP of greater than 5 psia under actual storing conditions. To demonstrate compliance with this condition, the operator shall determine vapor pressures of the materials stored in the storage tank using one of the following methods:
  - a. Sample and test the material stored
  - b. Use engineering method to calculate the vapor pressure of material stored
  - c. Provide material safety data sheet (MSDS) that show vapor pressure of material stored

[RULE 1303(b)(2)-Offset, 5-10-1996; Rule 1401, 3-5-2005]

4. This tank shall not store finished petroleum products or carbon black oil (CBO).

[RULE 1401, 6-5-2009]

5. The operator shall construct, operate, and maintain this tank as follows:
  - a. All roof openings and fittings for the internal floating-type cover shall meet the requirements of Rule 1178 (d)(1)(A)(i) through (d)(1)(A)(xiv), as applicable.
  - b. The rim seals for the internal floating-type cover shall meet the requirements of Rule 1178 (d)(1)(B)(i) through (d)(1)(B)(xi), as applicable.
  - c. Complete gap measurements of the rim seal system shall be performed by District certified personnel each time the tank is emptied and degassed for a continuous period of 10 days or more. Measurements shall be conducted by District certified personnel in accordance with Rule 1178 Attachment A – Inspection Procedures and Compliance Report Forms. However, such complete gap measurements, once completed, may not be required for five years; but it shall be conducted at least once every 10 years
  - d. The concentration of organic vapor in the vapor space above the internal floating-type cover shall not exceed 30% of its lower explosive limit (LEL). The LEL levels in the vapor space above the internal floating-type cover shall be measured by District certified personnel on a semiannual basis. Measurements shall be conducted by District certified personnel in accordance with Rule 463 Attachment B – Inspection Procedures and Compliance Report Form, Part E.

[RULE 1303(a)(1)-BACT, 5-10-1996; Rule 3004 (a)(4) – Periodic Monitoring, 12-12-1997]



**FACILITY PERMIT TO OPERATE  
PACIFIC L.A. MARINE TERMINAL, LLC**

6. This storage tank is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1178
VOC	District Rule	463
VOC	District Rule	1149
VOC	40 CFR60	Kb

For the purpose of this condition, District Rule 1178 is not applicable to the tank until the VOC emissions for this facility exceeds 20 tons per year as reported under Rule 301.

[RULE 1149, 5-2-2008; RULE 1178, 4-7-2006; RULE 463, 5-6-2005; 40CFR 60 SUBPART Kb, 10-15-2003]

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

Whenever this tank is being degassed or filled prior to the roof being refloated, it shall be connected to the tank cleaning/degassing vapor control unit (A/N 460679) which is in full use and has been issued a valid permit to operate by the District.

This tank shall vent to the vapor control unit while its floating roof is resting on leg support until the VOC concentration within the tank is reduced to less than 5,000 ppmv, measured as methane, for at least one hour after the shutdown of the air pollution control system.

The operator may elect not venting this tank to the vapor control unit if the tank contained or last contained organic liquid with a Reid vapor pressure (RVP) of 0.5 psia or less under actual storage condition before being drained dry. The operator shall maintain and make available to the Executive Officer upon request RVP data of the liquid stored in the tank before it is emptied.

[RULE 1149, 5-2-2008]

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

Throughput, vapor pressure of stored liquid, and other records required to demonstrate compliance with permit conditions.

The start and end dates and times when this tank has a roof-landing event including the numbers of degassing hours.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

9. The operator shall provide to the District the following items:

Final drawings and/or specifications of tank rim seals, deck fittings, floating roof and all other roof openings for this tank. All items shall be submitted to the District within 60 days after installation.

[RULE 1303(b)(2)-Offset, 5-10-1996]



**FACILITY PERMIT TO OPERATE  
PACIFIC L.A. MARINE TERMINAL, LLC**

**PERMIT TO CONSTRUCT**

**A/N 512798  
Granted 9/30/11**

**Equipment Description:**

STORAGE TANK T2000-10, CRUDE OIL, PARTIALLY REFINED PETROLEUM/INTERMEDIATE FEEDSTOCK, 265'-0" DIA. X 64'-0" H., 500,000 BBL. CAPACITY, INTERNAL FLOATING ROOF, WELDED SHELL, WITH METALLIC SHOE PRIMARY SEAL AND RIM-MOUNTED MULTIPLE WIPER TYPE SECONDARY SEAL, CONNECTED TO A VAPOR CONTROL UNIT

**Conditions:**

1. The operator shall limit total emissions excluding roof landing emissions from storage tanks T2000-9 and T2000-10 (PC A/Ns 512797 and 512798, respectively) as follows:

Contaminant	Emission Limit, lbs per calendar month
VOC	1,722

The operator shall use US EPA's TANKS4.0 software (latest version) and the method described below for calculating emissions from each storage tank subject to this condition.

The operator shall multiply monthly throughput determined as shown below by 12 for the turnovers per year input into TANKS 4.0 program.

The operator shall calculate the throughput, in barrels, by the following equation:  $V \times L/h$ , where V is the volume of the tank in barrels, L is the total vertical one-way liquid surface level travel in feet per month and h is the height of the tank in feet. V and h shall be based the most recent strapping chart measurements, and L shall be actual measurement taken by an automatic tank level gauge (ATLG) meeting below requirements.

The operator shall install and maintain an automatic tank level gauge (ATLG) and recorder to record continuously the vertical movement of the tank level. For the purpose of this condition, continuous recording is defined as once every 15 minutes.

The operator shall calculate the total one-way liquid surface level movement, in feet, on a daily and monthly basis.

The ATLG installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLG differs from the manual measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLG shall be repaired and put back into service within 10 days. While the ATLG is being repaired, throughput shall be determined by hourly tank level data averaged for the previous 30 days, prior to the discovery of the discrepancy.

In the event of a failure or routine maintenance of the ATLG, the ATLG shall be repaired (if necessary) and put back into service within 10 days of the time that the ATLG failed or was removed from service for maintenance. While the ATLG is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the ATLG went out of service.



## FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL, LLC

The operator shall use actual physical characteristics of the tank, best available meteorological data and vapor pressures under actual storage conditions of liquids stored in the tank to input into TANKS 4.0 program.

[RULE 1303(B)(2)-OFFSET, 5-10-1996]

2. The operator shall limit the total number of roof landings for drain-dry, degassing and cleaning of storage tanks T2000-9 and T2000-10 (PC A/Ns 512797 and 512798, respectively) to no more than 6 times in any one calendar month.

[RULE 1303(B)(2)-OFFSET, 5-10-1996]

3. The operator shall not store in this tank crude oils having a true vapor pressure (TVP) of greater than 10 psia or partially refined petroleum/intermediate feedstock having a TVP of greater than 5 psia under actual storing conditions. To demonstrate compliance with this condition, the operator shall determine vapor pressures of the materials stored in the storage tank using one of the following methods:
  - a. Sample and test the material stored
  - b. Use engineering method to calculate the vapor pressure of material stored
  - c. Provide material safety data sheet (MSDS) that show vapor pressure of material stored

[RULE 1303(b)(2)-Offset, 5-10-1996; Rule 1401, 3-5-2005]

4. This tank shall not store finished petroleum products or carbon black oil (CBO).

[RULE 1401, 6-5-2009]

5. The operator shall construct, operate, and maintain this tank as follows:
  - a. All roof openings and fittings for the internal floating-type cover shall meet the requirements of Rule 1178 (d)(1)(A)(i) through (d)(1)(A)(xiv), as applicable.
  - b. The rim seals for the internal floating-type cover shall meet the requirements of Rule 1178 (d)(1)(B)(i) through (d)(1)(B)(xi), as applicable.
  - c. Complete gap measurements of the rim seal system shall be performed by District certified personnel each time the tank is emptied and degassed for a continuous period of 10 days or more. Measurements shall be conducted by District certified personnel in accordance with Rule 1178 Attachment A – Inspection Procedures and Compliance Report Forms. However, such complete gap measurements, once completed, may not be required for five years; but it shall be conducted at least once every 10 years
  - d. The concentration of organic vapor in the vapor space above the internal floating-type cover shall not exceed 30% of its lower explosive limit (LEL). The LEL levels in the vapor space above the internal floating-type cover shall be measured by District certified personnel on a semiannual basis. Measurements shall be conducted by District certified personnel in accordance with Rule 463 Attachment B – Inspection Procedures and Compliance Report Form, Part E.

[RULE 1303(a)(1)-BACT, 5-10-1996; Rule 3004 (a)(4) – Periodic Monitoring, 12-12-1997]



## FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL, LLC

6. This storage tank is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1178
VOC	District Rule	463
VOC	District Rule	1149
VOC	40 CFR60	Kb

For the purpose of this condition, District Rule 1178 is not applicable to the tank until the VOC emissions for this facility exceeds 20 tons per year as reported under Rule 301.

[RULE 1149, 5-2-2008; RULE 1178, 4-7-2006; RULE 463, 5-6-2005; 40CFR 60 SUBPART Kb, 10-15-2003]

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

Whenever this tank is being degassed or filled prior to the roof being refloated, it shall be connected to the tank cleaning/degassing vapor control unit (A/N 460679) which is in full use and has been issued a valid permit to operate by the District.

This tank shall vent to the vapor control unit while its floating roof is resting on leg support until the VOC concentration within the tank is reduced to less than 5,000 ppmv, measured as methane, for at least one hour after the shutdown of the air pollution control system.

The operator may elect not venting this tank to the vapor control unit if the tank contained or last contained organic liquid with a Reid vapor pressure (RVP) of 0.5 psia or less under actual storage condition before being drained dry. The operator shall maintain and make available to the Executive Officer upon request RVP data of the liquid stored in the tank before it is emptied.

[RULE 1149, 5-2-2008]

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

Throughput, vapor pressure of stored liquid, and other records required to demonstrate compliance with permit conditions.

The start and end dates and times when this tank has a roof-landing event including the numbers of degassing hours.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

9. The operator shall provide to the District the following items:

Final drawings and/or specifications of tank rim seals, deck fittings, floating roof and all other roof openings for this tank. All items shall be submitted to the District within 60 days after installation.

[RULE 1303(b)(2)-Offset, 5-10-1996]



**FACILITY PERMIT TO OPERATE  
PACIFIC L.A. MARINE TERMINAL, LLC**

**PERMIT TO CONSTRUCT**

**A/N 460679  
Granted 9/30/11**

**Equipment Description:**

STORAGE TANK CLEANING/DEGASSING VAPOR CONTROL SYSTEM CONSISTING OF:

1. VAPOR COLLECTION UNIT WITH A LIQUID KNOCKOUT DRUM 3'-6" DIA. X 7'-3" H., 325 GAL CAPACITY, WITH AN INFLUENT DETONATION ARRESTOR, TWO 5-HP VARIABLE FREQUENCY DRIVE VAPOR SCAVENGING BLOWERS WITH ONE SERVED A BACKUP, 420 SCFM MAXIMUM TOTAL FLOW RATE, EQUIPPED WITH TANDEM MECHANICAL SEALS WITH AN EFFLUENT DETONATION ARRESTOR.
2. 30,000 CU. FT VAPOR HOLDER/EXPANDABLE BLADDER TANK, 20'-0" DIA. X 26'-0" H.
3. DIRECT GAS FIRED INCINERATOR, WITH TWO BURNERS, 125 MMBTU/HR TOTAL, JOHN ZINK OR COMPARABLE BURNERS, COMBUSTING VAPORS FROM TANK CLEANING/DEGASSING OPERATION AND NATURAL GAS AS SUPPLEMENTAL FUEL, WITH TWO 75-HP COMBUSTOR BOOSTER BLOWERS, 2600 SCFM MAXIMUM TOTAL FLOW RATE, EQUIPPED WITH DETONATION ARRESTORS.
4. VAPOR RECOVERY HEADER SERVING STORAGE TANKS T2000-1 THROUGH T2000-10.

**Conditions:**

1. The operator shall operate and maintain this equipment to achieve a VOC destruction efficiency of 99 percent or greater.

[RULE 1303(b)(2)-Offset, 5-10-1996]

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

Contaminant	Emission Limit	Fuel to Burner
NOx	60 ppmv	Natural gas only
NOx	105 ppmv	Waste gas with or without NG added

For the purpose of this condition, the NOx concentrations shall be corrected to 3 percent stack-gas oxygen at standard conditions, measured on a dry basis and averaged over a period of 15 minutes

[RULE 1303(a)(1)-BACT, 5-10-1996]

3. The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, is not less than 1600 Deg F.

To comply with this condition, the operator shall install and maintain a temperature gauge to indicate accurately the temperature in the combustion chamber of the incinerator.



## FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL, LLC

The operator shall also install and maintain a device to record continuously the temperature of the combustion chamber.

The operator shall calibrate the thermocouple/temperature recorder once a year, in accordance with manufacturer's specification, such that the overall accuracy is within + /- 1% or + /- 2 degrees Celsius, whichever is greater.

The operator shall keep the temperature record on site to show compliance with above conditions. Such records shall be kept for at least five years and made available to District personnel upon request.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1149, 5-2-2008]

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

The height of bladder tank shall not exceed a height of 24 ft or a maximum height specified by the Executive Officer in writing. The height of bladder shall be monitored and recorded as approved by the Executive Officer.

The operator shall install and maintain a device to indicate continuously the integrity of the bladder tank. No gases shall be received by the bladder tank unless the tank integrity is verified to be leak free.

[RULE 1303(a)(1)-BACT, 5-10-1996, RULE 1149, 5-2-2008]

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

This incinerator shall receive vent gas from: (a) no more than three tanks in the degassing/purging operation at any time, and (b) no more than one tank in refilling operation with a maximum of two tanks in degassing operation at any time.

The operator shall install and maintain a non-resettable totalizing meter for recording natural gas usage by this incinerator.

The operator shall install and maintain a non-resettable totalizing meter for recording tank waste gas routed to this incinerator.

[RULE 1303(a)(1)-BACT, 5-10-1996, RULE 1149, 5-2-2008]

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

The test shall be conducted to determine :

1. the VOC destruction efficiency of the unit;
2. the NOx concentrations at the outlet;
3. the NOX, SOX, VOC, PM10, CO mass emissions at the outlet; and
4. the high heating value (HHV) and total sulfur compounds of the inlet vent gas



## FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL, LLC

The NO<sub>x</sub>, VOC, SO<sub>x</sub>, PM<sub>10</sub> and CO test shall be conducted when this thermal oxidizer receives tank vapors during the tank refilling period. In addition, the HHV and H<sub>2</sub>S test shall also be conducted during this period.

The NO<sub>x</sub>, VOC, SO<sub>x</sub> and CO test shall be conducted when this thermal oxidizer receives tank vapors during the tank degassing period. In addition, the HHV and H<sub>2</sub>S test shall also be conducted during this period.

The test shall be conducted in accordance to a District approved source test protocol. The protocol shall be submitted to the District no later than 45 days before the proposed test date and shall be approved by the District before the test commences. The test protocol shall include the proposed operational conditions for the incinerator, the identity of the testing lab, a statement from the testing lab certifying that it meets the criteria of Rule 304, and a description of all sampling and analytical test methods.

The test shall be conducted after District approval of the source test protocol but no later than 180 days after initial start-up. The District shall be notified of the date and time of the test at least 10 days prior to the test date.

[RULE 1303(a)(1)-BACT, 5-10-1996, RULE 1303(b)(2)-Offset, 5-10-1996, RULE 1149, 5-2-2008, RULE 431.1, 6-12-1998]

7. The operator shall provide to the District a source test report in accordance with the following specifications:

Source test results shall be submitted to the District no later than 60 days after the source test was conducted.

All exhaust flow rate shall be expressed in terms of dry standard cubic feet per minute (DSCFM) and dry actual cubic feet per minute (DACFM).

Emission data shall be expressed in terms of mass rate (lbs/hr). In addition, solid PM emissions, if required to be tested, shall also be reported in terms of grains per DSCF.

Emission data shall be expressed in terms of concentration (ppmv), corrected to 3 percent stack-gas oxygen at standard conditions, measured on a dry basis and averaged over a period of 15 minutes

Source test results shall also include the oxygen and carbon dioxide levels in the exhaust gas, natural gas startup flow rate (scfm), supplemental natural gas flow rate (scfm), high heating value (Btu/scf), total sulfur content of the tank vapors during tank refilling and tank degassing/purging operations, the flue gas temperature and percent excess air under which the test was conducted.

[RULE 1303(a)(1)-BACT, 5-10-1996, RULE 1303(b)(2)-Offset, 5-10-1996, RULE 1149, 5-2-2008]

8. The operator shall provide to the District the following items:

Final drawings and/or specifications of the equipment installed including but not limited to make and model of the burners, performance guarantee, fuel and vapor line configurations, process flow diagrams (PFD), process and instrumentation diagrams (P&ID). All items shall be submitted to the District within 60 days after installation.

[RULE 1303(b)(2)-Offset, 5-10-1996]



## FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL, LLC

### PERMIT TO CONSTRUCT

A/N 512076  
Granted 9/30/11

#### Equipment Description:

INTERNAL COMBUSTION ENGINE, CUMMINS, MODEL NO. 80DSFAE OR EQUIVALENT, DIESEL FUELED, FOUR CYCLES, TURBOCHARGED, AFTERCOOLED, RATED AT 145 BHP, DRIVING AN EMERGENCY ELECTRICAL GENERATOR

#### Conditions:

1. For the purpose of this permit, an equivalent engine is an internal combustion engine that meets the same or lower emissions limits as Cummins engine, model 80DSFAE and meets the emission limits specified in Title 13 California Code of Regulations Section 2423.
2. The engine is subject to all applicable requirements of SCAQMD Rules 431.2, 1470 and 40CFR 60 Subpart IIII and 40CFR 63 Subpart ZZZZ.
3. This engine shall not operate more than 200 hours in any one year, which includes no more than (a) 50 hours in any one year for maintenance and testing purpose; and (b) No more than 4.2 hours in any one calendar month for maintenance and testing.
4. An operational non-resettable totalizing time meter shall be installed and maintained to indicate the engine elapsed operating time.
5. The operator shall restrict the operation of this equipment as follows:

In addition to maintenance and testing of this engine, this engine shall only be used to provide electrical power to either portable operations or emergency power to stationary sources.

Portable operations are those where it can be demonstrated that because of the nature of the operation, it is necessary to periodically move the equipment from one location to another.

Emergencies at stationary sources are those that result in an interruption of services of the primary power supply or during stage II or III electrical emergencies declared by the California Independent System Operator.

6. The operator shall keep a log of engine operations documenting the total time the engine is operated each month and the specific reason for operation as:
  - a. Emergency Use
  - b. Maintenance and testing
  - c. Other operating hours (describe the reason for the operation)

In addition, for each time the engine is manually started, the log shall include the date of engine operation, the specific reason for operation, and the totalizing hour meter readings (in hours and tenths of hours) at the beginning and the end of the operation.



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**FACILITY PERMIT TO OPERATE  
PACIFIC L.A. MARINE TERMINAL, LLC**

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On or before January 15<sup>th</sup> of each year, the operator shall record in the engine operating log:

- a. The total hours of engine operation for the previous calendar year, and
  - b. The total hours of engine operation for maintenance and testing for the previous calendar year.
7. Engine operation log(s) shall be retained on site for a minimum of five calendar years and shall be made available to the Executive Officer or his representative upon request.



## FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL, LLC

### PERMIT TO CONSTRUCT

A/N 512077  
Granted 9/30/11

#### Equipment Description:

INTERNAL COMBUSTION ENGINE, CLARKE, MODEL NO. JX6H-UFAD60 *OR EQUIVALENT*, DIESEL FUELED, FOUR CYCLES, TURBOCHARGED, AFTERCOOLED, RATED AT 510 BHP, DRIVING AN EMERGENCY FIRE PUMP

#### Conditions:

1. For the purpose of this permit, an equivalent engine is an internal combustion engine that meets the same or lower emissions limits as Clarke engine, model JX6H-UFAD60 and meet the emission limits specified in Title 13 California Code of Regulations Section 2423.
2. The engine is subject to all applicable requirements of SCAQMD Rules 431.2, 1470 and 40CFR 60 Subpart IIII and 40CFR 63 Subpart ZZZZ.
3. This engine shall not operate more than 200 hours in any one year, which includes no more than (a) 50 hours in any one year for maintenance and testing purpose; and (b) No more than 4.2 hours in any one calendar month for maintenance and testing.
4. An operational non-resettable totalizing time meter shall be installed and maintained to indicate the engine elapsed operating time.
5. The operator shall restrict the operation of this equipment as follows:

In addition to maintenance and testing of this engine, this engine shall only be used to provide electrical power to either portable operations or emergency power to stationary sources.

Portable operations are those where it can be demonstrated that because of the nature of the operation, it is necessary to periodically move the equipment from one location to another.

Emergencies at stationary sources are those that result in an interruption of services of the primary power supply or during stage II or III electrical emergencies declared by the California Independent System Operator.

6. The operator shall keep a log of engine operations documenting the total time the engine is operated each month and the specific reason for operation as:
  - a. Emergency Use
  - b. Maintenance and testing
  - c. Other operating hours (describe the reason for the operation)

In addition, for each time the engine is manually started, the log shall include the date of engine operation, the specific reason for operation, and the totalizing hour meter readings (in hours and tenths of hours) at the beginning and the end of the operation.



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## FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL, LLC

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On or before January 15<sup>th</sup> of each year, the operator shall record in the engine operating log:

- a. The total hours of engine operation for the previous calendar year, and
  - b. The total hours of engine operation for maintenance and testing for the previous calendar year.
7. Engine operation log(s) shall be retained on site for a minimum of five calendar years and shall be made available to the Executive Officer or his representative upon request.



## FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL, LLC

### PERMIT TO CONSTRUCT

A/N 513776  
Granted 9/30/11

#### Equipment Description:

STORAGE TANK, CONTACT/STORM WATER, DIAMETER: 12 FT, LENGTH: 47.5 FT, 35,000 GALLON CAPACITY, WITH TWO CARBON ADSORPTION CANISTERS IN SERIES, EACH 55 GALLON DRUM OF GRANULAR ACTIVATED CARBON

#### Conditions:

1. The storage tank shall be vented to the carbon adsorption canisters at all times.
2. The operator shall limit the throughput to no more than 35,000 barrel(s) in any one calendar month.

To comply with this condition, the operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Tank throughput in barrels per month.  
Vacuum truck records

3. The operator shall monitor the concentration of volatile organic compounds (VOCs) at the outlet of the primary carbon adsorber whenever the tank is being filled. The operator shall monitor using EPA Reference Method 21 with a District approved hydrocarbon detection instrument calibrated in ppmv methane.
4. In the event the OVA analyzer reaches 500 ppmv, the carbon in the primary carbon canister shall be replaced with fresh activated carbon or, the secondary canister becomes the primary canister and the replenished canister becomes the secondary canister. The primary canister shall be replaced within 72 hours after the initial discovery of 500ppmv. A log shall be maintained to record the sequential position of each fresh carbon canister and the date each carbon canister is replenished and/or re-sequenced.
5. This equipment shall only be used to store storm water and the liquid stored in this equipment shall not exceed VOC content of 10 percent by weight pursuant to Rule 1173(1)(1)(D)—amended February 6, 2009. Annual records shall be retained to show compliance with this condition and shall be made available to the Executive Officer.
6. The activated carbon used in the primary and secondary carbon canisters shall have a carbon tetrachloride activity number not less than 60% as measure by ASTM Method D3467-99 or a butane activity number of not less than 23.5% as measured by ASTM Method 5288-92.
7. Spent carbon removed from the carbon adsorption system shall be maintained or stored in closed containers prior to removal from this site.
8. This tank is subject to all applicable requirements of SCAQMD Rules 463.
9. The storage tank shall not be used to receive petroleum liquids as defined in 40 CFR60 Subpart Kb.



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## FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL, LLC

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### RULE 219 EQUIPMENT

**Equipment Description:**

RULE 219 EXEMPT EQUIPMENT, SUMP PUMP ENGINE, < 50 HP.

**Emissions and Requirements:**

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS



## FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL, LLC

### RULE 219 EQUIPMENT

**Equipment Description:**

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

**Periodic Monitoring:**

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 COATING, (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 OF ALL COATING CONSISTING OF (a) COATING TYPE, (b) VOC CONTENT AS APPLIED IN GRAMS PER LITER (g/l) OF MATERIALS USED FOR LOW-SOLIDS COATING, (c) VOC CONTENT AS APPLIED IN g/l OF COATING, LESS WATER AND EXEMPT SOLVENT, FOR OTHER COATING.

**Equipment and Requirements:**

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

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

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



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**FACILITY PERMIT TO OPERATE  
PACIFIC L.A. MARINE TERMINAL LLC**

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**SECTION I: PLANS AND SCHEDULES**

This section lists all plans approved by AQMD for the purposes of meeting the requirements of applicable AQMD rules.

NONE

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 Copley Drive, Diamond Bar, CA 91765

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Facility ID:	164564
Revision #:	0
Date:	October 06, 2011



**FACILITY PERMIT TO OPERATE  
PACIFIC L.A. MARINE TERMINAL LLC**

**SECTION J: AIR TOXICS**

**NOT APPLICABLE**



## FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL LLC

### SECTION K: TITLE V Administration

#### GENERAL PROVISIONS

1. This permit may be revised, revoked, reopened and reissued, or terminated for cause, or for failure to comply with regulatory requirements, permit terms, or conditions. [3004(a)(7)(C)]
2. This permit does not convey any property rights of any sort or any exclusive privilege. [3004(a)(7)(E)]

#### Permit Renewal and Expiration

3. (A) Except for solid waste incineration facilities subject to standards under section 129(e) of the Clean Air Act, this permit shall expire five years from the date that this Title V permit is issued. The operator's right to operate under this permit terminates at midnight on this date, unless the facility is protected by an application shield in accordance with Rule 3002(b), due to the filing of a timely and complete application for a Title V permit renewal, consistent with Rule 3003. [3004(a)(2), 3004(f)]  
  
(B) A Title V permit for a solid waste incineration facility combusting municipal waste subject to standards under Section 129(e) of the Clean Air Act shall expire 12 years from the date of issuance unless such permit has been renewed pursuant to this regulation. These permits shall be reviewed by the Executive Officer at least every five years from the date of issuance. [3004(f)(2)]
4. To renew this permit, the operator shall submit to the Executive Officer an application for renewal at least 180 days, but not more than 545 days, prior to the expiration date of this permit. [3003(a)(6)]

#### Duty to Provide Information

5. The applicant for, or holder of, a Title V permit shall furnish, pursuant to Rule 3002(d) and (e), timely information and records to the Executive Officer or designee within a reasonable time as specified in writing by the Executive Officer or designee. [3004(a)(7)(F)]

#### Payment of Fees

6. The operator shall pay all required fees specified in Regulation III - Fees. [3004(a)(7)(G)]



## FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL LLC

### SECTION K: TITLE V Administration

#### Reopening for Cause

7. The Executive Officer will reopen and revise this permit if any of the following circumstances occur:
- (A) Additional regulatory requirements become applicable with a remaining permit term of three or more years. Reopening is not required if the effective date of the requirement is later than the expiration date of this permit, unless the permit or any of its terms and conditions has been extended pursuant to paragraph (f)(4) of Rule 3004.
  - (B) The Executive Officer or EPA Administrator determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.
  - (C) The Executive Officer or EPA Administrator determines that the permit must be revised or revoked to assure compliance with the applicable requirements. [3005(g)(1)]

#### COMPLIANCE PROVISIONS

8. The operator shall comply with all regulatory requirements, and all permit terms and conditions, except:
- (A) As provided for by the emergency provisions of condition no. 17 or condition no. 18, or
  - (B) As provided by an alternative operating condition granted pursuant to a federally approved (SIP-approved) Rule 518.2.

Any non-compliance with any federally enforceable permit condition constitutes a violation of the Federal Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or revision; or denial of a permit renewal application. Non-compliance may also be grounds for civil or criminal penalties under the California State Health and Safety Code. [3004(a)(7)(A)]



## FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL LLC

### SECTION K: TITLE V Administration

9. The operator shall allow the Executive Officer or authorized representative, upon presentation of appropriate credentials to:
- (A) Enter the operator's premises where emission-related activities are conducted, or records are kept under the conditions of this permit;
  - (B) Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
  - (C) Inspect at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
  - (D) Sample or monitor at reasonable times, substances or parameters for the purpose of assuring compliance with the facility permit or regulatory requirements. [3004(a)(10)(B)]
10. All terms and conditions in this permit, including any provisions designed to limit a facility's potential to emit, are enforceable by the EPA Administrator and citizens under the federal Clean Air Act, unless the term or condition is designated as not federally enforceable. Each day during any portion of which a violation occurs is a separate offense. [3004(g)]
11. A challenge to any permit condition or requirement raised by EPA, the operator, or any other person, shall not invalidate or otherwise affect the remaining portions of this permit. [3007(b)]
12. The filing of any application for a permit revision, revocation, or termination, or a notification of planned changes or anticipated non-compliance does not stay any permit condition. [3004(a)(7)(D)]
13. It shall not be a defense for a person in an enforcement action, including those listed in Rule 3002(c)(2), that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit, except as provided for in "Emergency Provisions" of this section. [3004(a)(7)(H)]



## **FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL LLC**

### **SECTION K: TITLE V Administration**

14. The operator shall not build, erect, install, or use any equipment, the use of which, without resulting in a reduction in the total release of air contaminants to atmosphere, reduces or conceals an emission which would otherwise constitute a violation of Chapter 3 (commencing with Section 41700) of Part 4, of Division 26 of the California Health and Safety Code or of AQMD rules. This rule shall not apply to cases in which the only violation involved is of Section 41700 of the California Health and Safety Code, or Rule 402 of AQMD Rules. [408]
  
15. Nothing in this permit or in any permit shield can alter or affect:
  - (A) Under Section 303 of the federal Clean Air Act, the provisions for emergency orders;
  - (B) The liability of the operator for any violation of applicable requirements prior to or at the time of permit issuance;
  - (C) The applicable requirements of the Acid Rain Program, Regulation XXXI;
  - (D) The ability of EPA to obtain information from the operator pursuant to Section 114 of the federal Clean Air Act;
  - (E) The applicability of state or local requirements that are not "applicable requirements", as defined in Rule 3000, at the time of permit issuance but which do apply to the facility, such as toxics requirements unique to the State; and
  - (F) The applicability of regulatory requirements with compliance dates after the permit issuance date. [3004(c)(3)]
  
16. For any portable equipment that requires an AQMD or state permit or registration, excluding a) portable engines, b) military tactical support equipment and c) AQMD-permitted portable equipment that are not a major source, are not located at the facility for more than 12 consecutive months after commencing operation, and whose operation does not conflict with the terms or conditions of this Title V permit: 1) the facility operator shall keep a copy of the AQMD or state permit or registration; 2) the equipment operator shall comply with the conditions on the permit or registration and all other regulatory requirements; and 3) the facility operator shall treat the permit or registration as a part of its Title V permit, subject to recordkeeping, reporting and certification requirements. [3004(a)(1)]



## FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL LLC

### SECTION K: TITLE V Administration EMERGENCY PROVISIONS

17. An emergency<sup>1</sup> constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limit only if:
- (A) Properly signed, contemporaneous operating records or other credible evidence demonstrate that:
    - (1) An emergency occurred and the operator can identify the cause(s) of the emergency;
    - (2) The facility was operated properly (i.e. operated and maintained in accordance with the manufacturer's specifications, and in compliance with all regulatory requirements or a compliance plan), before the emergency occurred;
    - (3) The operator took all reasonable steps to minimize levels of emissions that exceeded emissions standard, or other requirements in the permit; and,
    - (4) The operator submitted a written notice of the emergency to the AQMD within two working days of the time when the emissions limitations were exceeded due to the emergency. The notice shall contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken; and
  - (B) The operator complies with the breakdown provisions of Rule 430 – Breakdown Provisions, or subdivision (i) of Rule 2004 – Requirements, whichever is applicable. [3002(g), 430, 2004(i)]
18. The operator is excused from complying with any regulatory requirement that is suspended by the Executive Officer during a state of emergency or state of war emergency, in accordance with Rule 118 - Emergencies. [118]

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<sup>1</sup> "Emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the operator, including acts of God, which: (A) requires immediate corrective action to restore normal operation; and (B) causes the facility to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency; and (C) is not caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.



## **FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL LLC**

### **SECTION K: TITLE V Administration RECORDKEEPING PROVISIONS**

19. In addition to any other recordkeeping requirements specified elsewhere in this permit, the operator shall keep records of required monitoring information, where applicable, that include:

- (A) The date, place as defined in the Title V permit, and time of sampling or measurements;
- (B) The date(s) analyses were performed;
- (C) The company or entity that performed the analyses;
- (D) The analytical techniques or methods used;
- (E) The results of such analyses; and
- (F) The operating conditions as existing at the time of sampling or measurement. [3004(a)(4)(B)]

20. The operator shall maintain records pursuant to Rule 109 and any applicable material safety data sheet (MSDS) for any equipment claimed to be exempt from a written permit by Rule 219 based on the information in those records. [219(t)]

21. The operator shall keep all records of monitoring data required by this permit or by regulatory requirements for a period of at least five years from the date of the monitoring sample, measurement, report, or application. [3004(a)(4)(E)]

### **REPORTING PROVISIONS**

22. The operator shall comply with the following requirements for prompt reporting of deviations:

- (A) Breakdowns shall be reported as required by Rule 430 – Breakdown Provisions or subdivision (i) of Rule 2004 - Requirements, whichever is applicable.



## FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL LLC

### SECTION K: TITLE V Administration

- (B) Other deviations from permit or applicable rule emission limitations, equipment operating conditions, or work practice standards, determined by observation or by any monitoring or testing required by the permit or applicable rules that result in emissions greater than those allowed by the permit or applicable rules shall be reported within 72 hours (unless a shorter reporting period is specified in an applicable State or Federal Regulation) of discovery of the deviation by contacting AQMD enforcement personnel assigned to this facility or otherwise calling (800) CUT-SMOG.
  - (C) A written report of such deviations reported pursuant to (B), and any corrective actions or preventative measures taken, shall be submitted to AQMD, in an AQMD approved format, within 14 days of discovery of the deviation.
  - (D) All other deviations shall be reported with the monitoring report required by condition no. 23. [3004(a)(5)]
23. Unless more frequent reporting of monitoring results are specified in other permit conditions or in regulatory requirements, the operator shall submit reports of any required monitoring to the AQMD at least twice per year. The report shall include a) a statement whether all monitoring required by the permit was conducted; and b) identification of all instances of deviations from permit or regulatory requirements. A report for the first six calendar months of the year is due by August 31 and a report for the last six calendar months of the year is due by February 28. [3004(a)(4)(F)]
24. The operator shall submit to the Executive Officer and to the Environmental Protection Agency (EPA), an annual compliance certification. For RECLAIM facilities, the certification is due when the Annual Permit Emissions Program (APEP) report is due and shall cover the same reporting period. For other facilities, the certification is due on March 1 for the previous calendar year. The certification need not include the period preceding the date the initial Title V permit was issued. Each compliance certification shall include:
- (A) Identification of each permit term or condition that is the basis of the certification;



## **FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL LLC**

### **SECTION K: TITLE V Administration**

- (B) The compliance status during the reporting period;
- (C) Whether compliance was continuous or intermittent;
- (D) The method(s) used to determine compliance over the reporting period and currently, and
- (E) Any other facts specifically required by the Executive Officer to determine compliance.

The EPA copy of the certification shall be sent to: Director of the Air Division Attn:  
Air-3 USEPA, Region IX 75 Hawthorne St. San Francisco, CA 94105 [3004(a)(10)(E)]

25. All records, reports, and documents required to be submitted by a Title V operator to AQMD or EPA shall contain a certification of accuracy consistent with Rule 3003(c)(7) by a responsible official (as defined in Rule 3000). [3004(a)(12)]

### **PERIODIC MONITORING**

26. All periodic monitoring required by this permit pursuant to Rule 3004(a)(4)(c) is based on the requirements and justifications in the AQMD document "Periodic Monitoring Guidelines for Title V Facilities" or in case-by-case determinations documented in the TitleV application file. [3004(a)(4)]



## FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL LLC

### SECTION K: TITLE V Administration

#### FACILITY RULES

*This facility is subject to the following rules and regulations*

With the exception of Rule 402, 473, 477, 1118 and Rules 1401 through 1420, the following rules that are designated as non-federally enforceable are pending EPA approval as part of the state implementation plan. Upon the effective date of that approval, the approved rule(s) will become federally enforceable, and any earlier versions of those rules will no longer be federally enforceable.

<b>RULE SOURCE</b>	<b>Adopted/Amended Date</b>	<b>FEDERAL Enforceability</b>
RULE 109	5-2-2003	Federally enforceable
RULE 1113	11-8-1996	Federally enforceable
RULE 1113	6-3-2011	Non federally enforceable
RULE 1149	5-2-2008	Non federally enforceable
RULE 1149	7-14-1995	Federally enforceable
RULE 1171	11-7-2003	Federally enforceable
RULE 1171	5-1-2009	Non federally enforceable
RULE 1173	2-6-2009	Non federally enforceable
RULE 1173	5-13-1994	Federally enforceable
RULE 118	12-7-1995	Non federally enforceable
RULE 1303(a)(1)-BACT	5-10-1996	Federally enforceable
RULE 1303(b)(1)-Modeling	5-10-1996	Federally enforceable
RULE 1303(b)(2)-Offset	5-10-1996	Federally enforceable
RULE 1402	3-4-2005	Non federally enforceable
RULE 204	10-8-1993	Federally enforceable
RULE 217	1-5-1990	Federally enforceable
RULE 219	6-1-2007	Non federally enforceable
RULE 219	9-4-1981	Federally enforceable
RULE 3002	11-14-1997	Federally enforceable
RULE 3003	11-14-1997	Federally enforceable
RULE 3003	11-5-2010	Non federally enforceable
RULE 3004	12-12-1997	Federally enforceable



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<b>RULE SOURCE</b>	<b>Adopted/Amended Date</b>	<b>FEDERAL Enforceability</b>
RULE 3004(a)(4)-Periodic Monitoring	12-12-1997	Federally enforceable
RULE 3005	11-14-1997	Federally enforceable
RULE 3005	11-5-2010	Non federally enforceable
RULE 3007	10-8-1993	Federally enforceable
RULE 301	5-6-2011	Non federally enforceable
RULE 304	5-6-2011	Non federally enforceable
RULE 401	11-9-2001	Non federally enforceable
RULE 401	3-2-1984	Federally enforceable
RULE 402	5-7-1976	Non federally enforceable
RULE 404	2-7-1986	Federally enforceable
RULE 405	2-7-1986	Federally enforceable
RULE 408	5-7-1976	Federally enforceable
RULE 430	7-12-1996	Non federally enforceable
RULE 431.2	5-4-1990	Federally enforceable
RULE 431.2	9-15-2000	Non federally enforceable
RULE 463	5-6-2005	Federally enforceable
RULE 481	1-11-2002	Federally enforceable
RULE 701	6-13-1997	Federally enforceable
40CFR 60 Subpart IIII	7-11-2006	Federally enforceable
40CFR 60 Subpart Kb	10-15-2003	Federally enforceable
40CFR 63 Subpart ZZZZ	1-18-2008	Federally enforceable
40CFR 63 Subpart ZZZZ	6-15-2004	Federally enforceable



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**APPENDIX A: NOX AND SOX EMITTING EQUIPMENT EXEMPT FROM WRITTEN  
PERMIT PURSUANT TO RULE 219**

NONE



**FACILITY PERMIT TO OPERATE  
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**APPENDIX B: RULE EMISSION LIMITS  
[RULE 1113 11-08-1996]**

- (1) Except as provided in paragraphs (c)(2), (c)(3), and (c)(4) of Rule 1113, the operator shall not supply, sell, offer for sale, apply, or solicit the application of, any architectural coating which, at the time of sale or manufacture, contains more than 250 grams of VOC per liter of coating (2.08 pounds per gallon), less water, less exempt compounds, and less any colorant added to tint bases, or manufacture, blend, or repackage such a coating for use within the District.
- (2) Except as provided in paragraphs (c)(3) and (c)(4) of Rule 1113, the operator shall not supply, sell, offer for sale, apply, solicit the application of, manufacture, blend, or repackage, for use within the District, any architectural coating listed in the Table of Standards which contains VOC (excluding any colorant added to tint bases) in excess of the corresponding VOC limit specified in the table, after the effective date specified.

**TABLE OF STANDARDS**

**VOC LIMITS**

**Grams of VOC Per Liter of Coating,  
Less Water And Less Exempt Compounds**

COATING	Limit*	Effective Date of Adoption	Effective 1/1/1998	Effective 1/1/1999	Effective 7/1/2001	Effective 1/1/2005	Effective 7/1/2008
Bond Breakers	350						
Clear Wood Finishes							
Varnish	350						
Sanding Sealers	350						
Lacquer	680		550			275	
Concrete-Curing Compounds	350						
Dry-Fog Coatings	400						
Fire-proofing Exterior Coatings	350	450		350			
Fire-Retardant Coatings							
Clear	650						
Pigmented	350						
Flats	250				100		50
Graphic Arts (Sign) Coatings	500						



**FACILITY PERMIT TO OPERATE  
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**APPENDIX B: RULE EMISSION LIMITS  
[RULE 1113 11-08-1996]**

Industrial Maintenance						
Primers and Topcoats						
Alkyds	420					
Catalyzed Epoxy	420					
Bituminous Coatings	420					
Materials						
Inorganic Polymers	420					
Vinyl Chloride Polymers	420					
Chlorinated Rubber	420					
Acrylic Polymers	420					
Urethane Polymers	420					
Silicones	420					
Unique Vehicles	420					
Japans/Faux Finishing	350	700		350		
Coatings						
Magnesite Cement Coatings	600			450		
Mastic Coatings	300					
Metallic Pigmented Coatings	500					
Multi-Color Coatings	420		250			
Pigmented Lacquer	680		550		275	
Pre-Treatment Wash Primers	780					
Primers, Sealers, and	350					
Undercoaters						
Quick-Dry Enamels	400					
Roof Coatings	300					
Shellac						
Clear	730					
Pigmented	550					
Stains	350					
Swimming Pool Coatings						
Repair	650					
Other	340					
Traffic Coatings	250		150			
Waterproofing Sealers	400					
Wood Preservatives						
Below-Ground	350					
Other	350					

\* The specified limits remain in effect unless revised limits are listed in subsequent columns in the Table of Standards

**TABLE OF STANDARDS (cont.)**

**VOC LIMITS**

**Grams of VOC Per Liter of Material**

COATING	Limit
Low-Solids Coating	120



## FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL LLC

### APPENDIX B: RULE EMISSION LIMITS [RULE 1113 06-03-2011]

- (1) Except as provided in paragraphs (c)(3), (c)(4), and designated coatings averaged under (c)(6) of Rule 1113, no person shall supply, sell, offer for sale, market, manufacture, blend, repackage, apply, store at a worksite, or solicit the application of any architectural coating within the District:
  - (A) That is listed in the Table of Standards 1 and contains VOC (excluding any colorant added to tint bases) in excess of the corresponding VOC limit specified in the table, after the effective date specified; or
  - (B) That is not listed in the Table of Standards 1, and contains VOC (excluding any colorant added to tint bases) in excess of 250 grams of VOC per liter of coating (2.08 pounds per gallon), less water, less exempt compounds, until January 1, 2014, at which time the limit drops to 50 grams of VOC per liter of coating, less water, less exempt compounds (0.42 pounds per gallon).
- (2) No person within the District shall add colorant at the point of sale that is listed in the Table of Standards 2 and contains VOC in excess of the corresponding VOC limit specified in the Table of Standards 2, after the effective date specified.



## FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL LLC

### APPENDIX B: RULE EMISSION LIMITS [RULE 1113 06-03-2011]

#### TABLE OF STANDARDS 1 VOC LIMITS

**Grams of VOC Per Liter of Coating,  
Less Water and Less Exempt Compounds**

COATING CATEGORY	Ceiling Limit <sup>1</sup>	Current Limit <sup>2</sup>	Effective Date		
			7/1/08	1/1/12	1/1/14
Bond Breakers		350			
Clear Wood Finishes		275			
Varnish	350	275			
Sanding Sealers	350	275			
Lacquer		275			
Concrete-Curing Compounds		100			
Concrete-Curing Compounds For Roadways and Bridges <sup>3</sup>		350			
Concrete Surface Retarder		250			50
Driveway Sealer		100		50	
Dry-Fog Coatings		150			50
Faux Finishing Coatings					
Clear Topcoat		350		200	
Decorative Coatings		350			100
Glazes		350			
Japan		350			
Trowel Applied Coatings		350		150	50
Fire-Proofing Coatings		350			150
Flats	250	50	50		
Floor Coatings	100	50			
Form Release Compound		250			100
Graphic Arts (Sign) Coatings		500			150
Industrial Maintenance (IM) Coatings	420	100			
High Temperature IM Coatings		420			
Non-Sacrificial Anti-Graffiti Coatings		100			
Zinc-Rich IM Primers	340	100			
Magnesite Cement Coatings		450			
Mastic Coatings		300			100
Metallic Pigmented Coatings	500	500			150
Multi-Color Coatings		250			
Nonflat Coatings	150	50			
Pre-Treatment Wash Primers		420			
Primers, Sealers, and Undercoaters	200	100			
Reactive Penetrating Sealers		350			
Recycled Coatings		250			
Roof Coatings	250	50			
Roof Coatings, Aluminum		100			



## FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL LLC

### APPENDIX B: RULE EMISSION LIMITS [RULE 1113 06-03-2011]

Roof Primers, Bituminous	350	350		
Rust Preventative Coatings	400	100		
Stone Consolidant		450		
Sacrificial Anti-Graffiti Coatings		100	50	
Shellac				
Clear		730		
Pigmented		550		
Specialty Primers	350	100		
Stains		100		



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**APPENDIX B: RULE EMISSION LIMITS  
[RULE 1113 06-03-2011]**

COATING CATEGORY	Ceiling Limit <sup>1</sup>	Current Limit <sup>2</sup>	Effective Date		
			7/1/08	1/1/12	1/1/14
Stains, Interior	250	250			
Swimming Pool Coatings					
Repair		340			
Other		340			
Traffic Coatings		100			
Waterproofing Sealers	250	100			
Waterproofing Concrete/Masonry Sealers	400	100			
Wood Preservatives		350			

1. The specified ceiling limits are applicable to products sold under the Averaging Compliance Option.
2. The specified limits remain in effect unless revised limits are listed in subsequent columns in the Table of Standards.
3. Does not include compounds used for curbs and gutters, sidewalks, islands, driveways and other miscellaneous concrete areas.

**TABLE OF STANDARDS 1 (cont.)  
VOC LIMITS**

**Grams of VOC Per Liter of Material**

COATING	Limit
Low-Solids Coating	120

**TABLE OF STANDARDS 2  
VOC LIMITS FOR COLORANTS**

**Grams of VOC Per Liter of Colorant  
Less Water and Less Exempt Compounds**

COLORANT	Limit <sup>4</sup>
Architectural Coatings, excluding IM Coatings	50
Solvent-Based IM	600
Waterborne IM	50

4. Effective January 1, 2014.



## FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL LLC

### APPENDIX B: RULE EMISSION LIMITS [RULE 1171 11-07-2003]

(1) Solvent Requirements

A person shall not use a solvent to perform solvent cleaning operations unless the solvent complies with the applicable requirements set forth below:

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS
	VOC g/l (lb/gal)
(A) Product Cleaning During Manufacturing Process Or Surface Preparation For Coating, Adhesive, Or Ink Application	
(i) General	25 (0.21)
(ii) Electrical Apparatus Components & Electronic Components	500 (4.2)
(iii) Medical Devices & Pharmaceuticals	800 (6.7)
(B) Repair and Maintenance Cleaning	
(i) General	25 (0.21)
(ii) Electrical Apparatus Components & Electronic Components	900 (7.5)



## FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL LLC

### APPENDIX B: RULE EMISSION LIMITS [RULE 1171 11-07-2003]

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS
	VOC g/l (lb/gal)
(iii) Medical Devices & Pharmaceuticals	
(A) Tools, Equipment, & Machinery	800 (6.7)
(B) General Work Surfaces	600 (5.0)
(C) Cleaning of Coatings or Adhesives Application Equipment	550 (4.6)
(D) Cleaning of Ink Application Equipment	
(i) General	25 (0.21)
(ii) Flexographic Printing	25 (0.21)
(iii) Gravure Printing	
(A) Publication	750 (6.3)
(B) Packaging	25 (0.21)
(iv) Lithographic or Letter Press Printing	



## FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL LLC

### APPENDIX B: RULE EMISSION LIMITS [RULE 1171 11-07-2003]

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS
	VOC g/l (lb/gal)
(A) Roller Wash – Step 1	600 (5.0)
(B) Roller Wash-Step 2, Blanket Wash, & On-Press Components	800 (6.7)
(C) Removable Press Components	25 (0.21)
(v) Screen Printing	750 (6.3)
(vi) Ultraviolet Ink/ Electron Beam Ink Application Equipment (except screen printing)	800 (6.7)
(vii) Specialty Flexographic Printing	600 (5.0)
(E) Cleaning of Polyester Resin Application Equipment	25 (0.21)



**FACILITY PERMIT TO OPERATE  
PACIFIC L.A. MARINE TERMINAL LLC**

**APPENDIX B: RULE EMISSION LIMITS  
[RULE 1171 05-01-2009]**

(1) Solvent Requirements

A person shall not use a solvent to perform solvent cleaning operations unless the solvent complies with the applicable requirements set forth below:

	<b>CURRENT LIMITS*</b>	<b>EFFECTIVE 1/1/2010</b>
<b>SOLVENT CLEANING ACTIVITY</b>	<b>VOC g/l (lb/gal)</b>	<b>VOC g/l (lb/gal)</b>
(A) Product Cleaning During Manufacturing Process Or Surface Preparation For Coating, Adhesive, Or Ink Application		
(i) General	25 (0.21)	
(ii) Electrical Apparatus Components & Electronic Components	100 (0.83)	
(iii) Medical Devices & Pharmaceuticals	800 (6.7)	
(B) Repair and Maintenance Cleaning		
(i) General	25 (0.21)	
(ii) Electrical Apparatus Components & Electronic Components	100 (0.83)	



## FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL LLC

### APPENDIX B: RULE EMISSION LIMITS [RULE 1171 05-01-2009]

	CURRENT LIMITS*	EFFECTIVE 1/1/2010
<b>SOLVENT CLEANING ACTIVITY (cont.)</b>	<b>VOC g/l (lb/gal)</b>	<b>VOC g/l (lb/gal)</b>
(iii) Medical Devices & Pharmaceuticals		
(A) Tools, Equipment, & Machinery	800 (6.7)	
(B) General Work Surfaces	600 (5.0)	
(C) Cleaning of Coatings or Adhesives Application Equipment	25 (0.21)	
(D) Cleaning of Ink Application Equipment		
(i) General	25 (0.21)	
(ii) Flexographic Printing	25 (0.21)	
(iii) Gravure Printing		
(A) Publication	100 (0.83)	
(B) Packaging	25 (0.21)	
(iv) Lithographic (Offset) or Letter Press Printing		
(A) Roller Wash, Blanket Wash, & On-Press Components	100 (0.83)	



## FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL LLC

### APPENDIX B: RULE EMISSION LIMITS [RULE 1171 05-01-2009]

	<b>CURRENT LIMITS*</b>	<b>EFFECTIVE 1/1/2010</b>
<b>SOLVENT CLEANING ACTIVITY (cont.)</b>	<b>VOC g/l (lb/gal)</b>	<b>VOC g/l (lb/gal)</b>
(B) Removable Press Components	25 (0.21)	
(v) Screen Printing	100 (0.83)	
(vi) Ultraviolet Ink/ Electron Beam Ink Application Equipment (except screen printing)	650 (5.4)	100 (0.83)
(vii) Specialty Flexographic Printing	100 (0.83)	
(E) Cleaning of Polyester Resin Application Equipment	25 (0.21)	

\* The specified limits remain in effect unless revised limits are listed in subsequent columns.



## FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL LLC

### APPENDIX B: RULE EMISSION LIMITS [RULE 404 02-07-1986]

The operator shall not discharge into the atmosphere from this equipment, particulate matter in excess of the concentration at standard conditions, shown in Table 404(a). Where the volume discharged is between figures listed in the Table, the exact concentration permitted to be discharged shall be determined by linear interpolation.

For the purposes of this rule, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.

**TABLE 404(a)**

Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions		Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions	
		Milligrams per Cubic Meter	Grains per Cubic Foot			Milligrams per Cubic Meter	Grains per Cubic Foot
Cubic meters Per Minute	Cubic feet Per Minute			Cubic meters Per Minute	Cubic feet Per Minute		
25 or less	883 or less	450	0.196	900	31780	118	0.0515
30	1059	420	.183	1000	35310	113	.0493
35	1236	397	.173	1100	38850	109	.0476
40	1413	377	.165	1200	42380	106	.0463
45	1589	361	.158	1300	45910	102	.0445



**FACILITY PERMIT TO OPERATE  
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**APPENDIX B: RULE EMISSION LIMITS  
[RULE 404 02-07-1986]**

Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions		Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions	
Cubic meters Per Minute	Cubic feet Per Minute	Milligrams per Cubic Meter	Grains per Cubic Foot	Cubic meters Per Minute	Cubic feet Per Minute	Milligrams per Cubic Meter	Grains per Cubic Foot
50	1766	347	.152	1400	49440	100	.0437
60	2119	324	.141	1500	52970	97	.0424
70	2472	306	.134	1750	61800	92	.0402
80	2825	291	.127	2000	70630	87	.0380
90	3178	279	.122	2250	79460	83	.0362
100	3531	267	.117	2500	88290	80	.0349
125	4414	246	.107	3000	105900	75	.0327
150	5297	230	.100	4000	141300	67	.0293
175	6180	217	.0947	5000	176600	62	.0271
200	7063	206	.0900	6000	211900	58	.0253
250	8829	190	.0830	8000	282500	52	.0227
300	10590	177	.0773	10000	353100	48	.0210
350	12360	167	.0730	15000	529700	41	.0179
400	14130	159	.0694	20000	706300	37	.0162
450	15890	152	.0664	25000	882900	34	.0148



**FACILITY PERMIT TO OPERATE  
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**APPENDIX B: RULE EMISSION LIMITS  
 [RULE 404 02-07-1986]**

Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter <sup>1</sup> Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions		Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions	
Cubic meters Per Minute	Cubic feet Per Minute	Milligrams per Cubic Meter	Grains per Cubic Foot	Cubic meters Per Minute	Cubic feet Per Minute	Milligrams per Cubic Meter	Grains per Cubic Foot
500	17660	146	.0637	30000	1059000	32	.0140
600	21190	137	.0598	40000	1413000	28	.0122
700	24720	129	.0563	50000	1766000	26	.0114
800	28250	123	.0537	70000 or more	2472000 or more	23	.0100



## FACILITY PERMIT TO OPERATE PACIFIC L.A. MARINE TERMINAL LLC

### APPENDIX B: RULE EMISSION LIMITS [RULE 405 02-07-1986]

The operator shall not discharge into the atmosphere from this equipment, solid particulate matter including lead and lead compounds in excess of the rate shown in Table 405(a).

Where the process weight per hour is between figures listed in the table, the exact weight of permitted discharge shall be determined by linear interpolation.

For the purposes of this rule, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.

**TABLE 405(a)**

Process Weight Per Hour		Maximum Discharge Rate Allowed for Solid Particulate Matter (Aggregate Discharged From All Points of Process		Process Weight Per Hour		Maximum Discharge Rate Allowed for Solid Particulate Matter (Aggregate Discharged From All points of Process	
		Kilograms Per Hour	Pounds Per Hour			Kilograms Per Hour	Pounds Per Hour
100 or less	220 or less	0.450	0.99	9000	19840	5.308	11.7
150	331	0.585	1.29	10000	22050	5.440	12.0
200	441	0.703	1.55	12500	27560	5.732	12.6
250	551	0.804	1.77	15000	33070	5.982	13.2
300	661	0.897	1.98	17500	38580	6.202	13.7
350	772	0.983	2.17	20000	44090	6.399	14.1
400	882	1.063	2.34	25000	55120	6.743	14.9
450	992	1.138	2.51	30000	66140	7.037	15.5
500	1102	1.209	2.67	35000	77160	7.296	16.1
600	1323	1.340	2.95	40000	88180	7.527	16.6



**FACILITY PERMIT TO OPERATE  
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**APPENDIX B: RULE EMISSION LIMITS  
 [RULE 405 02-07-1986]**

Process Weight Per Hour		Maximum Discharge Rate Allowed for Solid Particulate Matter (Aggregate Discharged From All Points of Process)		Process Weight Per Hour		Maximum Discharge Rate Allowed for Solid Particulate Matter (Aggregate Discharged From All points of Process)	
Kilograms Per Hour	Pounds Per Hour	Kilograms Per Hour	Pounds Per Hour	Kilograms Per Hour	Pounds Per Hour	Kilograms Per Hour	Pounds Per Hour
700	1543	1.461	3.22	45000	99210	7.738	17.1
800	1764	1.573	3.47	50000	110200	7.931	17.5
900	1984	1.678	3.70	60000	132300	8.277	18.2
1000	2205	1.777	3.92	70000	154300	8.582	18.9
1250	2756	2.003	4.42	80000	176400	8.854	19.5
1500	3307	2.206	4.86	90000	198400	9.102	20.1
1750	3858	2.392	5.27	100000	220500	9.329	20.6
2000	4409	2.563	5.65	125000	275600	9.830	21.7
2250	4960	2.723	6.00	150000	330700	10.26	22.6
2500	5512	2.874	6.34	175000	385800	10.64	23.5
2750	6063	3.016	6.65	200000	440900	10.97	24.2
3000	6614	3.151	6.95	225000	496000	11.28	24.9
3250	7165	3.280	7.23	250000	551200	11.56	25.5
3600	7716	3.404	7.50	275000	606300	11.82	26.1
4000	8818	3.637	8.02	300000	661400	12.07	26.6
4500	9921	3.855	8.50	325000	716500	12.30	27.1
5000	11020	4.059	8.95	350000	771600	12.51	27.6
6000	13230	4.434	9.78	400000	881800	12.91	28.5
7000	15430	4.775	10.5	450000	992100	13.27	29.3
8000	17640	5.089	11.2	500000 or more	1102000 or more	13.60	30.0