



# South Coast Air Quality Management District

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

July 12, 2013

Mr. Ngiabi Gicuhi  
Environmental Engineer  
Plains West Coast Terminals LLC,  
5900 Cherry Avenue  
Long Beach, CA 90805

Subject: Title V Facility Revision

REFERENCE: SCAQMD Facility ID NO.800420, Plains West Coast Terminals LLC, Long Beach  
Title V Facility Permit

Dear Mr. Gicuhi:

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

- Title page and Table of Contents – Revision 12, July 12, 2013
- Section D - Revision 4, July 12, 2013
- Section H - Revision 5, July 12, 2013

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

## SECTION D PERMIT TO OPERATE, SECTION H- PERMIT TO CONSTRUCT

Appl. No.	Action	Description
434583	PC to PO	Issue final PO for Device D11, EFR Storage Tank No.1, and move from Section H to Section D
434588	PC to PO	Issue final PO for Device D12, EFR Storage Tank No.2, and move from Section H to Section D
430230	PC to PO	Issue final PO for Device D13, EFR Storage Tank No.3, and move from Section H to Section D
434589	PC to PO	Issue final PO for Device D14, EFR Storage Tank No.4, and move from Section H to Section D
418694	PC to PO	Issue final PO for Device C116, Thermal Oxidizer, and move from Section H to Section D

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

Sincerely,

A handwritten signature in blue ink, appearing to read "Andrew Lee".

Andrew Lee, P.E.  
Sr. AQ Engineering Manager  
Energy/Public Facilities/  
Waste Management/Terminals Permitting

Enclosure

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



## FACILITY PERMIT TO OPERATE

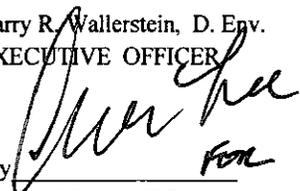
**PLAINS WEST COAST TERMINALS LLC  
2685 PIER S LN  
LONG BEACH, CA 90802**

### NOTICE

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

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

Barry R. Wallerstein, D. Eng.  
EXECUTIVE OFFICER

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



**FACILITY PERMIT TO OPERATE  
PLAINS WEST COAST TERMINALS LLC**

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## FACILITY PERMIT TO OPERATE PLAINS WEST COAST TERMINALS LLC

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
<b>Process 1: EXTERNAL COMBUSTION</b>					
<b>System 2: HEATERS</b>					
HEATER, NO. 1, NATURAL GAS, BORN ENGINEERING, WITH LOW NOX BURNER, 33.4 MMBTU/HR WITH A/N: 418692  BURNER, JOHN ZINK, MODEL PNRD-20-SPL, 4 STAGED FUEL BURNERS, WITH LOW NOX BURNER	D2		NOX: LARGE SOURCE**	CO: 400 PPMV (5) [RULE 1146, 11-17-2000; RULE 407, 4-2-1982]; CO: 2000 PPMV AT 15 MINS. (5) [RULE 1146, 11-17-2000; RULE 407, 4-2-1982]; NOX: 37 PPMV NATURAL GAS (3) [RULE 2012, 12-7-1995; RULE 2012, 3-16-2001; RULE 2012, 5-11-2001]	C1.8, D12.2
HEATER, NO. 2, NATURAL GAS, BORN ENGINEERING, WITH LOW NOX BURNER, 33.4 MMBTU/HR WITH A/N: 418693  BURNER, JOHN ZINK, MODEL PNRD-20-SPL, 4 STAGED FUEL BURNERS, WITH LOW NOX BURNER	D3		NOX: LARGE SOURCE**	CO: 400 PPMV (5) [RULE 1146, 11-17-2000; RULE 407, 4-2-1982]; CO: 2000 PPMV AT 15 MINS. (5) [RULE 1146, 11-17-2000; RULE 407, 4-2-1982]; NOX: 37 PPMV NATURAL GAS (3) [RULE 2012, 12-7-1995; RULE 2012, 3-16-2001; RULE 2012, 5-11-2001]	C1.8, D12.2
<b>Process 3: FUEL FACILITY</b>					
<b>System 1: STORAGE TANK</b>					

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

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



## FACILITY PERMIT TO OPERATE PLAINS WEST COAST TERMINALS LLC

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 3: FUEL FACILITY</b>					
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 1, HEAVY FUEL OIL, GAS OIL, BUNKER FUEL, CRUDE OIL, WELDED SHELL, 500000 BBL; DIAMETER: 273 FT ; HEIGHT: 48 FT WITH A/N: 434583  FLOATING ROOF, PONTOON  PRIMARY SEAL, MECHANICAL SHOE  SECONDARY SEAL, RIM MOUNTED, WIPER TYPE	D11	C116			A63.1, B59.5, E57.1, E57.2, E57.3, E448.1, H23.8, K67.3, K67.6, K180.1
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 2, HEAVY FUEL OIL, GAS OIL, BUNKER FUEL, CRUDE OIL, WELDED SHELL, 500000 BBL; DIAMETER: 273 FT ; HEIGHT: 48 FT WITH A/N: 434588  FLOATING ROOF, PONTOON  PRIMARY SEAL, MECHANICAL SHOE  SECONDARY SEAL, RIM MOUNTED, WIPER TYPE	D12	C116			A63.1, B59.5, E57.1, E57.2, E57.3, E448.1, H23.8, K67.3, K67.6, K180.1

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

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



## FACILITY PERMIT TO OPERATE PLAINS WEST COAST TERMINALS LLC

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
<b>Process 3: FUEL FACILITY</b>					
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 3, PETROLEUM PRODUCTS, WELDED SHELL, 43000 BBL; DIAMETER: 80 FT ; HEIGHT: 48 FT WITH A/N: 430230  FLOATING ROOF, PONTOON  PRIMARY SEAL, MECHANICAL SHOE  SECONDARY SEAL, RIM MOUNTED, WIPER TYPE  DOME COVER, GEODESIC	D13	C116			B59.9, C1.3, H23.8, K67.8
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 4, HEAVY FUEL OIL, GAS OIL, BUNKER FUEL, CRUDE OIL, WELDED SHELL, 175000 BBL; DIAMETER: 150 FT ; HEIGHT: 61 FT WITH A/N: 434589  FLOATING ROOF, PONTOON  PRIMARY SEAL, MECHANICAL SHOE, HMT  SECONDARY SEAL, RIM MOUNTED, WIPER TYPE, HMT	D14	C116			A63.1, B59.5, E57.1, E57.2, E57.3, E448.1, H23.8, K67.3, K67.6, K180.1

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



## FACILITY PERMIT TO OPERATE PLAINS WEST COAST TERMINALS LLC

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 3: FUEL FACILITY</b>					
STORAGE TANK, EXTERNAL FLOATING ROOF, T-6, WITH CONVERSION TO FLOATING ROOF TANK, SECONDARY SEAL, 175000 BBL; DIAMETER: 150 FT ; HEIGHT: 61 FT WITH A/N: 418673  FLOATING ROOF, PONTOON  PRIMARY SEAL  SECONDARY SEAL	D15	C116			B59.1
STORAGE TANK, EXTERNAL FLOATING ROOF, D, WELDED SHELL, 85000 BBL; DIAMETER: 140 FT ; HEIGHT: 32 FT WITH A/N: 418674  FLOATING ROOF, PONTOON  PRIMARY SEAL, METALLIC SHOE  SECONDARY SEAL, WIPER TYPE	D16	C116			B59.3, H23.3
<b>Process 4: OIL-WATER SEPARATION</b>					
<b>System 1: OIL-WATER SEPARATOR</b>					
OIL WATER SEPARATOR, FIXED ROOF, WIDTH: 8 FT ; HEIGHT: 10 FT ; LENGTH: 20 FT A/N: 418675	D19				H23.4

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

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



## FACILITY PERMIT TO OPERATE PLAINS WEST COAST TERMINALS LLC

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 4: OIL-WATER SEPARATION</b>					
TANK, T-22, TRICELLORATOR PROCESS, HEIGHT: 10 FT ; DIAMETER: 12 FT A/N: 418675	D20				
TANK, OIL/WATER SEPARATION, HEIGHT: 12 FT ; DIAMETER: 19 FT A/N: 418676	D21				B59.4, H23.4
<b>System 2: OIL COLLECTION TANK</b>					
TANK, T-26, HEIGHT: 3 FT 6 IN; DIAMETER: 6 FT A/N: 418675	D22				
TANK, 1500 GALS; DIAMETER: 7 FT 3 IN; HEIGHT: 5 FT A/N: 418676	D23				B59.4
<b>System 3: BASIN &amp; PIT</b>					
SUMP, CATCH BASIN, WIDTH: 6 FT ; HEIGHT: 6 FT 8 IN; LENGTH: 8 FT A/N: 418691	D25				E202.1, K67.1
SUMP, CATCH BASIN, WIDTH: 2 FT ; HEIGHT: 6 FT 6 IN; LENGTH: 6 FT A/N: 418677	D26				E202.1, K67.1
SUMP, CATCH BASIN, WIDTH: 9 FT ; HEIGHT: 3 FT 8 IN; LENGTH: 35 FT A/N: 418684	D27				E202.1, K67.1
<b>System 4: OILY WASTE WATER STORAGE TANK</b>					
STORAGE TANK, T-100-A, 500 BBL; DIAMETER: 15 FT ; HEIGHT: 12 FT A/N: 418685	D29				B59.2, C1.1, E71.1, E127.1, K67.2, K171.1
STORAGE TANK, T-100-B, 500 BBL; DIAMETER: 15 FT ; HEIGHT: 12 FT A/N: 418686	D30				B59.2, C1.1, E71.1, E127.1, K67.2, K171.1

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

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



## FACILITY PERMIT TO OPERATE PLAINS WEST COAST TERMINALS LLC

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 4: OIL-WATER SEPARATION</b>					
STORAGE TANK, T-101-A, 500 BBL; DIAMETER: 15 FT ; HEIGHT: 12 FT A/N: 418687	D31				B59.2, C1.1, E71.1, E127.1, K67.2, K171.1
STORAGE TANK, T-101-B, 500 BBL; DIAMETER: 15 FT ; HEIGHT: 12 FT A/N: 418688	D32				B59.2, C1.1, E71.1, E127.1, K67.2, K171.1
STORAGE TANK, T-102-A, 500 BBL; DIAMETER: 15 FT ; HEIGHT: 12 FT A/N: 418689	D33				B59.2, C1.1, E71.1, E127.1, K67.2, K171.1
STORAGE TANK, T-102-B, 500 BBL; DIAMETER: 15 FT ; HEIGHT: 12 FT A/N: 418690	D34				B59.2, C1.1, E71.1, E127.1, K67.2, K171.1
<b>Process 5: FUGITIVE EMISSION SOURCES</b>					
FUGITIVE EMISSIONS, FLANGES A/N: 418675	D35				H23.5
FUGITIVE EMISSIONS, PUMPS, LIGHT LIQUID/GAS A/N: 418675	D36				H23.6
FUGITIVE EMISSIONS, PUMPS, HEAVY LIQUID A/N: 418675	D89				H23.6
FUGITIVE EMISSIONS, VALVES, GAS STREAMS A/N: 418675	D86				H23.5
FUGITIVE EMISSIONS, VALVES, LIGHT LIQUID A/N: 418675	D87				H23.5
FUGITIVE EMISSIONS, VALVES, HEAVY LIQUID A/N: 418675	D88				H23.5
FUGITIVE EMISSIONS, PRV A/N: 418675	D91				H23.7

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

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



## FACILITY PERMIT TO OPERATE PLAINS WEST COAST TERMINALS LLC

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
<b>Process 6: INTERNAL COMBUSTION</b>					
INTERNAL COMBUSTION ENGINE, EMERGENCY FIRE, DIESEL FUEL, CLARK, MODEL DDFP-L6FA, 2 CYCLE, WITH AFTERCOOLER, TURBOCHARGER, 265 BHP A/N: 418664	D113		NOX: PROCESS UNIT**	NOX: 469 LBS/1000 GAL DIESEL (1); PM: (9) [RULE 404, 2-7-1986]; PM: (5) [RULE 1470, 6-1-2007]	B61.1, C1.4, C1.10, D12.1, K171.2
INTERNAL COMBUSTION ENGINE, EMERGENCY FIRE, DIESEL FUEL, CLARK, MODEL DDFP-L6FA, 2 CYCLE, WITH AFTERCOOLER, TURBOCHARGER, 265 BHP A/N: 418663	D114		NOX: PROCESS UNIT**	NOX: 469 LBS/1000 GAL DIESEL (1); PM: (9) [RULE 404, 2-7-1986]; PM: (5) [RULE 1470, 6-1-2007]	B61.1, C1.4, C1.10, D12.1, K171.2
<b>Process 8: AIR POLLUTION CONTROL EQUIPMENT</b>					
<b>System 1: THERMAL OXIDIZER</b>					
OXIDIZER, THERMAL, NATURAL GAS, PROPANE, 173.21 MMBTU/HR A/N: 418694	C116	D11 D12 D13 D14 D15 D16	NOX: LARGE SOURCE**	CO: 2000 PPMV AT 15 MINS. (5) [RULE 407, 4-2-1982]; NOX: 101.4 PPMV (1)	B59.7, C1.5, C8.1, D12.3, D12.4, D12.5, D12.6, D12.7, E226.1, K67.4

\* (1) (1A) (1B) Denotes RECLAIM emission factor  
(3) Denotes RECLAIM concentration limit  
(5) (5A) (5B) Denotes command and control emission limit  
(7) Denotes NSR applicability limit  
(9) See App B for Emission Limits

(2) (2A) (2B) Denotes RECLAIM emission rate  
(4) Denotes BACT emission limit  
(6) Denotes air toxic control rule limit  
(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
(10) See section J for NESHAP/MACT requirements

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



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**FACILITY PERMIT TO OPERATE  
PLAINS WEST COAST TERMINALS LLC**

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**SECTION D: DEVICE ID INDEX**

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



**FACILITY PERMIT TO OPERATE  
PLAINS WEST COAST TERMINALS LLC**

**SECTION D: DEVICE ID INDEX**

Device Index For Section D			
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D14	3	3	1
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D21	5	4	1
D22	5	4	2
D23	5	4	2
D25	5	4	3
D26	5	4	3
D27	5	4	3
D29	5	4	4
D30	5	4	4
D31	6	4	4
D32	6	4	4
D33	6	4	4
D34	6	4	4
D35	6	5	0
D36	6	5	0
D86	6	5	0
D87	6	5	0
D88	6	5	0
D89	6	5	0
D91	6	5	0
D113	7	6	0
D114	7	6	0
C116	7	8	1



## FACILITY PERMIT TO OPERATE PLAINS WEST COAST TERMINALS LLC

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

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

#### DEVICE CONDITIONS

##### A. Emission Limits

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

CONTAMINANT	EMISSIONS LIMIT
ROG	Less than or equal to 1564.2 LBS IN ANY ONE MONTH
ROG	Less than or equal to 65.42 LBS IN ANY ONE DAY

The operator shall calculate the emission limit(s) using the following formulas:  
 Withdrawal Loss =  $[(0.943) Q C WL]/D$ ; Standing Loss =  $K_s V^n (P^*) D M_v K_c$ ;  
 Fitting Loss =  $F_f (P^*) M_v K_c$ . Where Q = throughput in barrels, D = diameter of tank in feet,  $P^* = (P/14.7)/[1 + (1-P/14.7)^{0.5}]^2$ , and P = actual vapor pressure in psia

The operator shall calculate the emission limit(s) using the following factors: For all tanks: C = 0.006, WL = 7.1,  $K_s = 0.2$ , V = 5.6, n = 1.0,  $M_v = 50$ , and  $K_c = 0.4$ ; For tanks D11 (T-1) and D12 (T-2):  $F_f = 563.2$ ; For tank D14 (T-4),  $F_f = 491.2$

For the purposes of this condition, the limit(s) shall be based on the total combined emissions from tanks D11 (T-1), D12 (T-2), and D14 (T-4).

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

[Devices subject to this condition : D11, D12, D14]

##### B. Material/Fuel Type Limits



## FACILITY PERMIT TO OPERATE PLAINS WEST COAST TERMINALS LLC

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

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

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

petroleum distillate having a vapor pressure of 11 psia or greater under actual storage conditions

**[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 463, 5-6-2005]**

[Devices subject to this condition : D15]

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

organic liquid having a vapor pressure of 78 mm Hg (1.5 psia) or greater under actual storage conditions

**[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 463, 5-6-2005]**

[Devices subject to this condition : D29, D30, D31, D32, D33, D34]

**B59.3** The operator shall not use the following material(s) in this device :

pure organic compounds

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

[Devices subject to this condition : D16]

**B59.4** The operator shall not use the following material(s) in this device :



## FACILITY PERMIT TO OPERATE PLAINS WEST COAST TERMINALS LLC

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

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

effluent water containing 200 gallons or more per day of petroleum products from any equipment which processes, refines, stores, or handles hydrocarbons with a Reid vapor pressure of 0.5 pounds or greater

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

[Devices subject to this condition : D21, D23]

B59.5 The operator shall only use the following material(s) in this device :

crude oil, gas oil, heavy fuel oil, or bunker fuel

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

[Devices subject to this condition : D11, D12, D14]

B59.7 The operator shall only use the following material(s) in this device :

for supplemental fuel - natural gas or propane only

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

[Devices subject to this condition : C116]

B59.9 The operator shall only use the following material(s) in this device :

Crude oil or petroleum products having a true vapor pressure not to exceed 8.0 psia under actual operating conditions.



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

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

[Devices subject to this condition : D13]

B61.1 The operator shall not use fuel oil containing the following specified compounds:

Compound	Header 2	weight percent
Sulfur	greater than	0.0015

[RULE 1470, 6-1-2007; RULE 431.2, 5-4-1990; RULE 431.2, 9-15-2000]

[Devices subject to this condition : D113, D114]

#### C. Throughput or Operating Parameter Limits

C1.1 The operator shall limit the throughput to no more than 13000 barrel(s) in any one year.

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

[Devices subject to this condition : D29, D30, D31, D32, D33, D34]

C1.3 The operator shall limit the throughput to no more than 430000 barrel(s) in any one month.

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

[Devices subject to this condition : D13]



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

C1.4 The operator shall limit the operating time to no more than 200 hour(s) in any one year.

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

[Devices subject to this condition : D113, D114]

C1.5 The operator shall limit the heat input to no more than 90000 MM Btu in any one year.

The purpose(s) of this condition is to insure the equipment qualifies as a Reclaim large source.

[RULE 2012, 5-6-2005]

[Devices subject to this condition : C116]

C1.8 The operator shall limit the heat input to no more than 80000 MM Btu in any one year.

[RULE 204, 10-8-1993]

[Devices subject to this condition : D2, D3]

C1.10 The operator shall limit the maintenance testing to no more than 50 hour(s) in any one year.

[RULE 1470, 6-1-2007]

[Devices subject to this condition : D113, D114]



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

C8.1 The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, is not less than 1400 Deg F.

To comply with this condition, the operator shall monitor the temperature as specified in condition number D12.7.

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

[Devices subject to this condition : C116]

#### **D. Monitoring/Testing Requirements**

D12.1 The operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the engine.

[**RULE 1110.2, 6-3-2005; RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996; RULE 1470, 6-1-2007; RULE 2012, 5-6-2005**]

[Devices subject to this condition : D113, D114]

D12.2 The operator shall install and maintain a(n) non-resettable totalizing fuel meter to accurately indicate the fuel usage of the equipment.

[**RULE 2012, 12-7-1995; RULE 2012, 3-16-2001; RULE 2012, 5-11-2001**]

[Devices subject to this condition : D2, D3]

D12.3 The operator shall install and maintain a(n) non-resettable totalizing fuel meter to accurately indicate the fuel usage of the supplemental natural gas fuel.



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

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

[Devices subject to this condition : C116]

D12.4 The operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the thermal oxidizer.

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

[Devices subject to this condition : C116]

D12.5 The operator shall install and maintain a(n) non-resettable totalizing fuel meter to accurately indicate the fuel usage of the supplemental propane fuel.

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

[Devices subject to this condition : C116]

D12.6 The operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the tank vapors into the thermal oxidizer.

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

[Devices subject to this condition : C116]

D12.7 The operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature at the point at least 0.3 seconds downstream of the burner.



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

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

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

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

[Devices subject to this condition : C116]

#### E. Equipment Operation/Construction Requirements

E57.1 The operator shall vent this equipment to a vapor destruction unit which is in full use immediately after the tank was deemed free from organic liquid, whenever any organic liquid was emptied from the tank, and the volatile organic compounds (VOC) concentration monitored inside the tank (tank vapor space) was equal to or greater than 5,000 parts per million by volume (ppmv). The VOC concentration monitored inside the tank shall be taken through a dedicated sample piping.

For the purpose of this permit, an organic liquid is a product having a true vapor pressure of 25.8 mmhg (0.5 psi) absolute or greater under actual storage conditions.

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

[Devices subject to this condition : D11, D12, D14]

E57.2 The operator shall vent this equipment to a vapor destruction unit which is in full use immediately after the tank was deemed free from organic liquid, whenever any organic liquid was emptied from the tank, and the VOC concentration monitored at any tank covers, seals, or lids was greater than 100 ppmv. The operator shall not monitor the VOC concentration at the tank covers, seals, or lids in lieu of monitoring the VOC concentration inside the tank unless the VOC concentration inside the tank is lower than 5,000 ppmv.



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

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

[Devices subject to this condition : D11, D12, D14]

- E57.3 The operator shall vent this equipment to a vapor destruction unit which is in full use whenever it is being filled with any organic liquid and the roof is still on its legs.

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

[Devices subject to this condition : D11, D12, D14]

- E71.1 The operator shall only vent the vapors in this equipment to the delivery tanker truck during the filling of this equipment.

[RULE 1149, 7-14-1995]

[Devices subject to this condition : D29, D30, D31, D32, D33, D34]

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

[RULE 1173, 5-13-1994; RULE 1173, 6-1-2007]

[Devices subject to this condition : D29, D30, D31, D32, D33, D34]

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

drain and/or vacuum of all its contents whenever it is full or at least once a year, whichever comes first



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

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

[Devices subject to this condition : D25, D26, D27]

E226.1 The following condition number(s) shall only apply if all of the requirement(s) stated below are met:

Condition Number C8.10

Requirement 1: The thermal oxidizer is being used to control emissions from the tanks during static or refilling mode

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

[Devices subject to this condition : C116]

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



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

- A. Measure the VOC concentration monitored either inside the tank (tank vapor space) or at the tank covers, seals, or lids in accordance with EPA Method 21 using an appropriate analyser calibrated with methane.
- B. Vent the tank vapor space to a vapor destruction unit which is in full operating conditions and has a valid operating permit from the District. Start and stop venting times shall follow the schedule stipulated in the operating conditions of this permit and shall continue during the entire emptying and refilling operation until tank refill with organic liquid commences. Tank venting to a vapor destruction unit shall be done from the tank roof with vapor tight collection lines.
- C. Monitor and record the VOC concentration either inside the tank or at the tank covers, seals, or lids starting no later than one hour from the time when the tank was deemed free from organic liquid, whenever any organic liquid was emptied from the tank, and continue monitoring and recording thereafter at least once a day until tank refill with organic liquid commences.
- D. Install and maintain a gauge, either on the tank or on the vapor destruction unit, to register the pressure inside the tank whenever the tank is vented to a vapor destruction unit, with the gauge measurements clearly readable from the ground. While the tank is vented to a vapor destruction unit which is in full use, the pressure inside the tank shall be equal to or less than -0.01 inches of water.
- E. Install and maintain a computerized, fully automated, liquid level measuring device and recorder to continuously record the vertical movement of the roof. For the purpose of this condition, continuous recording is defined as once per minute.
- F. The operator shall calculate the total one-way roof movement, in feet, on a daily and monthly basis.
- G. In case of failure or shutdown of the measuring device and/or recorder, excluding routine maintenance, the requirements of this condition shall not apply for a period not to exceed 24 consecutive hours from the time of its occurrence. In the case of a routine maintenance, the requirements of this condition shall not apply for a maximum period of 4 hours in any calendar day.



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

H. Whenever there is no liquid movement in a given calendar day, the computerized liquid measurement device shall use the product temperature at midnight and the product Reid vapor pressure to calculate the tank emissions for that day.

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

[Devices subject to this condition : D11, D12, D14]

**H. Applicable Rules**

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

Contaminant	Rule	Rule/Subpart
ROG	District Rule	463
ROG	District Rule	1149

[RULE 1149, 7-14-1995; RULE 463, 5-6-2005]

[Devices subject to this condition : D16]

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

Contaminant	Rule	Rule/Subpart
ROG	District Rule	464

[RULE 464, 12-7-1990]



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

[Devices subject to this condition : D19, D21]

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

Contaminant	Rule	Rule/Subpart
ROG	District Rule	466.1

[RULE 466.1, 5-2-1980; RULE 466.1, 3-16-1984]

[Devices subject to this condition : D35, D86, D87, D88]

H23.6 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
ROG	District Rule	466

[RULE 466, 10-7-1983]

[Devices subject to this condition : D36, D89]

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

Contaminant	Rule	Rule/Subpart
ROG	District Rule	467

[RULE 467, 3-5-1982]



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

[Devices subject to this condition : D91]

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

Contaminant	Rule	Rule/Subpart
VOC	District Rule	463
VOC	District Rule	1149
TOC	40CFR60, SUBPART	Kb

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

[Devices subject to this condition : D11, D12, D13, D14]

**K. Record Keeping/Reporting**

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

date and time the equipment is drained and/or vacuumed

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

[Devices subject to this condition : D25, D26, D27]

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

Throughput



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

[**RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 463, 5-6-2005**]

[Devices subject to this condition : D29, D30, D31, D32, D33, D34]

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

throughput, material stored, true vapor pressure, withdrawal loss, standing loss, fitting loss, total loss, and cumulative loss.

These records shall be maintained for a period of two years. The operator shall make these records available to District personnel upon request.

[**RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 463, 3-11-1994; 40CFR 60 Subpart Kb, 10-15-2003**]

[Devices subject to this condition : D11, D12, D14]

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

tank vapor heating value in Btu/scf

operating time of the thermal oxidizer

flow rate of tank vapors and supplemental fuel into the thermal oxidizer

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

[Devices subject to this condition : C116]



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

- K67.6 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):
- A. The date and time when the tank starts and stops to be filled with any organic liquid.
  - B. The true vapor pressure expressed in mmHg or psi, absolute under actual storage conditions, of any product filled to and subsequently stored in the tank.
  - C. The date and time when any organic liquid starts and stops to be emptied from the tank.
  - D. The date and time when the tank roof lands on its legs whenever any organic liquid was emptied from the tank and the date and time when the tank roof subsequently re-floats on organic liquid, as determined visually by an observer.
  - E. The date and time when the tank is connected with and disconnected from a vapor destruction unit.
  - F. The VOC concentration measured inside the tank (tank vapor space) through a dedicated sample piping.
  - G. The VOC concentration measured at the tank covers, seals, or lids.
  - H. The records demonstrating compliance with continuous tank emptying and refilling operation, as stipulated in Rule 463, shall be kept on site for at least two years and shall be made available to District personnel upon request.

**[RULE 463, 3-11-1994]**

[Devices subject to this condition : D11, D12, D14]

- K67.8 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):



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Materials stored, true vapor pressure and throughput.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 463, 5-6-2005]

[Devices subject to this condition : D13]

K171.1 The operator shall notify the District if any of the following situations occur:

painting this equipment

This notification shall be provided to the District no later than 24 hours prior to the painting.

[RULE 1113, 11-8-1996; RULE 1113, 7-13-2007]

[Devices subject to this condition : D29, D30, D31, D32, D33, D34]

K171.2 The operator shall provide to the District the following items:

The operator shall maintain records, in a manner approved by the District, to demonstrate compliance with Condition Number C1.4.

[RULE 1110.2, 2-1-2008; RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996]

[Devices subject to this condition : D113, D114]

K180.1 The operator shall notify the District a minimum of 2 hours up to 2 days prior to when the roof is scheduled to land on its legs as a result of emptying organic liquid from the tank. This notification shall include, but is not limited to, the following:



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

The day and time when the tank roof is scheduled to land on its legs consistent with the notification requirements of Rule 1149.

**[RULE 1149, 7-14-1995]**

**[Devices subject to this condition : D11, D12, D14]**



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

NONE