



South Coast Air Quality Management District

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

December 15, 2009

Mr. Charles Plant
Vice President, Operations
THUMS Long Beach Company
P. O. Box 2900
Long Beach, CA 90801-2900

SUBJECT: DRAFT TITLE V PERMIT

Dear Mr. Plant:

Enclosed is a draft of the proposed Title V permit for your review. This is your opportunity to review and comment on the permit before it is released for review by the public and the U. S. Environmental Protection Agency (EPA) in accordance with the requirements of Regulation XXX - Title V Permits. The South Coast Air Quality Management District (AQMD) plans to release the propose permit for concurrent review by EPA and the public on January 29, 2010. Your comments must be received by January 15, 2010 in order to be incorporated in the proposed permit. Please review the entire permit to ensure the information is accurate and reflects all applicable regulatory requirements. The majority of the changes to the initial permit are found in the following sections:

- **Title V Permit Summary.** A permit summary sheet will be prepared for all Title V permit actions. This information will be made available to EPA and the public. Please review the summary sheet for accuracy.
- **Section A - Facility Information.** The facility information has been updated from information submitted to the AQMD on the initial permit. Please review this section to make sure all corrections have been made and that they are accurate.
- **Section D - Facility Description and Equipment Specific Conditions, and Section H - Permit to Construct and Temporary Permit to Operate.** There are four major changes to Sections D and H of the Facility Permit. They are as follows:
 1. Emission limits: Rule 3004 - Permit Types and Content, Subdivisions (a) and (b) require that each Title V permit include all emissions limitations. Sections

D and H of the Title V permit have been updated to comply with this requirement by adding all the applicable emission limits for each device listed in Sections D and H. In addition, each emission limit was referenced with the law or rule upon which it was based. For AQMD rules where the latest version of the rule is not approved into the State Implementation Plan (SIP), emission limits established by both versions of the rule were included in the permit. For rules that have emission limits that could not be listed in the Emissions and Requirements column of Sections D and H (e.g. Rules 404, 405, 1107 etc.), the emission limits were added as emission limits Type 9. Emission limits Type 9 do not appear in Sections D or H, but are found in Appendix B. For rules that have no applicable emission limits but have other requirements, the requirements were added by referencing the rule in a form of a condition.

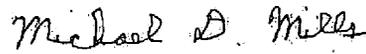
2. Conditions: Each condition listed in Sections D and H is referenced with the law or rule upon which it was based. The applicable law or rule is shown in brackets at the end of each condition.
3. Periodic Monitoring: Periodic monitoring requirements were included in Sections D and H based on our "Periodic Monitoring Guidelines for Title V Facilities". For each device that requires periodic monitoring, a permit condition was added that specifies the monitoring requirements and referenced to Rule 3004(a)(4). The EPA has delegated to local air pollution control agencies the authority to include appropriate periodic monitoring requirements. However, during the 45-day review period, EPA may require additional monitoring when it is deemed necessary.
4. Rule 219 equipment: EPA requires that all equipment subject to federal regulations or any source-specific rule that is approved into the SIP be included in the Title V permit, even if it is exempt by Rule 219. However, EPA allowed for the listing of this specific type of Rule 219 equipment in a generic manner. Therefore Rule 219 equipment was included into the Title V permit generically rather than individually. The Rule 219 equipment are listed in Section D under a separate process called "Rule 219-Exempt equipment Subject to Source-Specific Rules".

- **Section E - Administrative Conditions, Section F - RECLAIM Monitoring and Source Testing Requirements, and Section G - Recordkeeping and Reporting Requirements for RECLAIM Sources.** Section E lists administrative conditions that apply to all Title V facilities. Sections F and G only apply to RECLAIM facilities and may have changed to be consistent with recent amendments to AQMD Regulation XX - RECLAIM, and to reflect changes to Section D of the permit. Please review these three sections of the permit to make sure the requirements are consistent with AQMD rules and all other applicable regulatory requirements. Also, all the conditions listed in these three sections were tagged with the law or rule upon which they were based.

- **Section K - Title V Administration.** Section K lists all the Title V administrative conditions. They are the same for all Title V facilities, except for the list of applicable rules at the end. It lists all applicable rules referenced in Sections D and H (emission limit and conditions) and any rules that are referenced to the facility. This subsection also indicates which rules are federally enforceable.
- **Appendix B - Rule Emission Limits.** The permit is structured to show all applicable emission limits. Specific emission limits that cannot be listed in the Emissions and Requirements column of Sections D or H and which were added as emission limit Type 9 are included in this appendix. Review Appendix B to make sure all emission limits referenced in Sections D and H (footnote #9) are listed in Appendix B.

Please provide any comments you may have on the draft permit by January 8, 2010. Also, we are requesting that you recertify compliance by resubmitting certification Form 500-A2 along with the latest version of the Form 500-C1 (ver. 5/05) by the response deadline. These forms can be downloaded from www.aqmd.gov. If you have any questions or need additional information, please contact Mr. Chandrashekhar S. Bhatt of my staff at (909) 396-2653.

Sincerely,



Michael D. Mills, P.E.
Senior Manager
General Commercial and Energy Team
Engineering and Compliance

MDM:RGC:csb

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Enclosures

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

Title V Permit Summary

AQMD Facility ID: 800330	Company Name: THUMS Long Beach Company.		
Equipment Location: 1105 Harbor Scenic Drive, Piers G, J1-J6, and 4 Islands (Freeman, Chaffee, White, Grissom)	SIC Code: 1311		
Permit Revision #:	Revision Date:	Facility Permit Section(s) Affected:	
Application #(s): 466890	Application Submittal Date(s): 3/27/2007		
AQMD Contact Person: Chandrashekhar S. Bhatt	Phone #: (909) 396-2653	E-Mail Address: cbhatt@aqmd.gov	
Project Description: This is an existing facility, and has filed the above application for an initial Title V permit. THUMS produces crude and natural gas. The facility operates several crude oil storage tanks, Wemcos, oil/water separators, 6 emergency diesel IC Engines at 4 islands and piers, and other supporting equipment.			
Permit Type: <input checked="" type="checkbox"/> Initial Title V Permit <input type="checkbox"/> Significant Revision <input type="checkbox"/> Permit Renewal			
Permit Features: <input type="checkbox"/> Federally Enforceable Emission Cap For Exemption From Certain NESHAP Requirements <input type="checkbox"/> Permit Shield Applies <input type="checkbox"/> Permit Contains Conditions Allowing Emission Trading <input type="checkbox"/> Alternative Operating Scenario <input type="checkbox"/> Permit Streamlines Overlapping or Outdated Requirements <input type="checkbox"/> Other: _____ <input type="checkbox"/> Source Out of Compliance With Applicable Requirements and/or Operating Under a Variance			
Toxic Air Contaminant Emissions (TAC) - Annual Reported Emissions for Reporting Year: 2008	<input type="checkbox"/> No TACs Reported <input checked="" type="checkbox"/> The Following TACs Were Reported:		Emissions (lbs/yr):
	Ammonia		2.241
	Arsenic		0.001
	Benzene		889.125
	Cadmium		<0.001
	Chromium (VI)		<0.001
	Formaldehyde		121.365
	Lead (inorganic)		0.005
	Naphthalene		1.144
	Nickel		0.002
	PAHs, total, with components not reported		0.332
	1,3 Butadiene		0.142
	Trichloroethylene		1,539.24
Health Risk From Toxic Air Contaminants:	<input type="checkbox"/> Health Risk Reduction Plan in Force (AQMD Rule 1402) (date): _____ <input type="checkbox"/> Health Risk Assessment Required for this Permit Action (AQMD Rule 1401) <input checked="" type="checkbox"/> Facility is Subject to Review by the Air Toxics Information and Assessment Act (AB2588) <input type="checkbox"/> Facility Determined to be Exempt from AB2588 Requirements <input checked="" type="checkbox"/> AQMD is Tracking Status of Facility under AB2588 <input type="checkbox"/> Health Risk Assessment Submitted to AQMD and Is Being Reviewed <input checked="" type="checkbox"/> Final Facility Health Risk Approved (date) <u>1996, 2000</u> Cancer Risk = 1.70 (Id 1947), 0.84 (Id 3134) 1.20 (Id 22551), 0.80 (Id 22556), 0.50 (Id 39388) <u>in one million</u> Acute Hazard Index = <u>< 0.01</u> Note:- the approved toxic analysis is about 10 yrs old and there are no recent analyses. District's AB2588 group reviews the facility's HAP's emission report and determines the priority number. If this number is <10, no risk analysis is done. THUMS HAP emiss. have reduce recently and consequently facility's risk will be < One in million Chronic Hazard Index = <u>0.14 - <0.01</u>		

**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
Title V Permit Summary**

Criteria Pollutant Emissions	<input checked="" type="checkbox"/> CO	1.842	<input checked="" type="checkbox"/> PM	0.398
Annual Reported Emissions	<input checked="" type="checkbox"/> NOx	6.879	<input checked="" type="checkbox"/> SOx	0.033
(tons/year) for Reporting Year: 2006	<input checked="" type="checkbox"/> VOC	46.948	<input type="checkbox"/> Other:	PM from Diesel Engines – 35.175 lbs/yr
Compliance History: 2008-2009	<input checked="" type="checkbox"/> Citizen Complaints Filed in Last Two Calendar Years (0) <input checked="" type="checkbox"/> Notices to Comply Issued in Last Two Calendar Years (0) <input checked="" type="checkbox"/> Notices of Violation Issued in Last Two Calendar Years (0)			
Comments:	For two years period (2008-2009), no NTC nor NOV was served to THUMS..			

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FACILITY PERMIT TO OPERATE

**THUMS LONG BEACH
1105 HARBOR SCENIC DR PIERS J1-J
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. Env.
EXECUTIVE OFFICER

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

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

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FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION A: FACILITY INFORMATION

LEGAL OWNER &/OR OPERATOR: THUMS LONG BEACH

LEGAL OPERATOR (if different than owner):

EQUIPMENT LOCATION: 1105 HARBOR SCENIC DR PIERS J1-J6
LONG BEACH, CA 90802

MAILING ADDRESS: P.O. BOX 2900
LONG BEACH, CA 90801-2900

RESPONSIBLE OFFICIAL: MR. CHARLES PLANT

TITLE: VICE PRESIDENT, OPERATIONS

TELEPHONE NUMBER: (562) 624-3202

CONTACT PERSON: DIANA LANG

TITLE: REGULATORY ENVIRONMENTAL COORDINATOR

TELEPHONE NUMBER: (562) 624-3314

TITLE V PERMIT ISSUED: ~~December 11, 2009~~

TITLE V PERMIT EXPIRATION DATE: ~~December 11, 2014~~

TITLE V	RECLAIM
YES	NOx: YES SOx: NO CYCLE: 1 ZONE: COASTAL

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION

The annual allocation of NOx RECLAIM Trading Credits (RTCs) for this facility is calculated pursuant to Rule 2002. Total NOx emission shall not exceed such annual allocations unless the operator obtains RTCs corresponding to the facility's increased emissions in compliance with Rules 2005 and 2007.

The level of Starting Allocation plus Non-Tradable Credits used to determine compliance with Rule 2005(c)(4) and applicability of Rule 2005(e) - Trading Zone Restrictions is listed on the last page of this Section.

The following table lists the annual allocations that were issued to this facility and the amounts of RTCs held by this facility on the day of printing this Section.

RECLAIM POLLUTANT ANNUAL ALLOCATION (POUNDS)

Year		Zone	NOx RTC Initially Allocated	NOx RTC ¹ Holding as of 12/11/09 (pounds)	Non-Tradable ² Non-Usable RTCs (pounds)
Begin (month/year)	End				
1/2007	12/2007	Coastal	6629	518	0
1/2008	12/2008	Coastal	6629	354	179
1/2009	12/2009	Coastal	6629	5495	358
1/2010	12/2010	Coastal	6629	5316	537
1/2011	12/2011	Coastal	6629	5137	716
1/2012	12/2012	Coastal	6629	5137	716
1/2013	12/2013	Coastal	6629	5137	716
1/2014	12/2014	Coastal	6629	5137	716
1/2015	12/2015	Coastal	6629	5137	716
1/2016	12/2016	Coastal	6629	5137	716
1/2017	12/2017	Coastal	6629	5137	716
1/2018	12/2018	Coastal	6629	5137	716
1/2019	12/2019	Coastal	6629	5137	716
1/2020	12/2020	Coastal	6629	5137	716
1/2021	12/2021	Coastal	6629	5137	716
1/2022	12/2022	Coastal	6629	5137	716
1/2023	12/2023	Coastal	6629	5137	716

Footnotes:

1. This number may change due to pending trades, emissions reported under Quarterly Certification of Emissions Report (QCER) and Annual Permit Emission Program (APEP) Report required pursuant to Rule 2004, or deductions made pursuant to Rule 2010(b). The most recent total RTC information can be obtained from the District's RTC Listing.
2. The use of such credits is subject to restrictions set forth in paragraph (f)(1) of Rule 2002.

**FACILITY PERMIT TO OPERATE
 THUMS LONG BEACH**

SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION

The annual allocation of NOx RECLAIM Trading Credits (RTCs) for this facility is calculated pursuant to Rule 2002. Total NOx emission shall not exceed such annual allocations unless the operator obtains RTCs corresponding to the facility's increased emissions in compliance with Rules 2005 and 2007.

The level of Starting Allocation plus Non-Tradable Credits used to determine compliance with Rule 2005(c)(4) and applicability of Rule 2005(e) - Trading Zone Restrictions is listed on the last page of this Section.

The following table lists the annual allocations that were issued to this facility and the amounts of RTCs held by this facility on the day of printing this Section.

RECLAIM POLLUTANT ANNUAL ALLOCATION (POUNDS)

Year		Zone	NOx RTC Initially Allocated	NOx RTC ¹ Holding as of 12/11/09 (pounds)	Non-Tradable ² Non-Usable RTCs (pounds)
Begin (month/year)	End				
1/2024	12/2024	Coastal	6629	5137	716

Footnotes:

1. This number may change due to pending trades, emissions reported under Quarterly Certification of Emissions Report (QCER) and Annual Permit Emission Program (APEP) Report required pursuant to Rule 2004, or deductions made pursuant to Rule 2010(b). The most recent total RTC information can be obtained from the District's RTC Listing.
2. The use of such credits is subject to restrictions set forth in paragraph (f)(1) of Rule 2002.

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION

The annual allocation of RECLAIM Trading Credits (RTCs) for this facility is calculated pursuant to Rule 2002. If the facility submits a permit application to increase an annual allocation to a level greater than the facility's Starting Allocation plus Non-Tradable Credits as listed below, the application will be evaluated for compliance with Rule 2005(c)(4). Rule 2005(e)-Trading Zone Restrictions applies if an annual allocation is increased to a level greater than the facility's Starting Allocation plus Non-Tradable Credits:

Year		Zone	NOx RTC	Non-Tradable
Begin	End		Starting Allocation (pounds)	Credits(NTCs) (pounds)
1/1994	12/1994	Coastal	9483	0

**FACILITY PERMIT TO OPERATE
THUMS LONG BEACH**

SECTION C: FACILITY PLOT PLAN

(TO BE DEVELOPED)

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1 : Pier J-2,4,6; Petroleum Production					
System 1 : Crude Oil Storage					
STORAGE TANK, FIXED ROOF, NO. 87M-2, CRUDE OIL, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 87740 BBL; DIAMETER: 140 FT; HEIGHT: 32 FT A/N: 483984	D1				E51.1, E57.1, E57.3, H23.5
STORAGE TANK, FIXED ROOF, NO. 30M-1, CRUDE OIL, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 28650 BBL; DIAMETER: 80 FT; HEIGHT: 32 FT A/N: 483984	D2				E57.1, E57.3, H23.5
STORAGE TANK, FIXED ROOF, NO. 30M-2, CRUDE OIL, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 28650 BBL; DIAMETER: 80 FT; HEIGHT: 32 FT A/N: 483984	D3				E57.1, E57.3, H23.5
STORAGE TANK, FIXED ROOF, NO. 28M-1, CRUDE OIL, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 28650 BBL; DIAMETER: 80 FT; HEIGHT: 32 FT A/N: 483984	D4				E57.1, E57.3, H23.5
System 2 : Oil/Water/Gas Separation					
VESSEL, FWKO-1, FREE WATER KNOCKOUT, 700 BBL, VENTED TO THE VAPOR RECOVERY SYSTEM, LENGTH: 50 FT; DIAMETER: 10 FT A/N: 483985	D11				E57.1, E57.3, 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 THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1 : Pier J-2,4,6; Petroleum Production					
VESSEL, FS-2, FLOW SPLITTER, 560 BBL, VENTED TO THE VAPOR RECOVERY SYSTEM, LENGTH: 40 FT; DIAMETER: 10 FT A/N: 483985	D12				E57.1, E57.3, H23.7
VESSEL, FS-3, FLOW SPLITTER, 560 BBL, VENTED TO THE VAPOR RECOVERY SYSTEM, LENGTH: 40 FT; DIAMETER: 10 FT A/N: 483985	D13				E57.1, E57.3, H23.7
OIL WATER SEPARATOR, HT-6, CONNECTED TO VAPOR RECOVERY SYSTEM, LENGTH: 60 FT; DIAMETER: 12 FT A/N: 483985	D210				E57.1, H23.7
OIL WATER SEPARATOR, HT-7, CONNECTED TO VAPOR RECOVERY SYSTEM, LENGTH: 60 FT; DIAMETER: 12 FT A/N: 483985	D211				E57.1, H23.7
OIL WATER SEPARATOR, HT-8, CONNECTED TO VAPOR RECOVERY SYSTEM, LENGTH: 60 FT; DIAMETER: 12 FT A/N: 483985	D212				E57.1, H23.7
OIL WATER SEPARATOR, HT-9, CONNECTED TO VAPOR RECOVERY SYSTEM, LENGTH: 60 FT; DIAMETER: 12 FT A/N: 483985	D213				E57.1, 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 THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1 : Pier J-2,4,6; Petroleum Production					
OIL WATER SEPARATOR, HT-10, CONNECTED TO VAPOR RECOVERY SYSTEM, LENGTH: 60 FT; DIAMETER: 12 FT A/N: 483985	D214				E57.1, H23.7
OIL WATER SEPARATOR, HT-14, CONNECTED TO VAPOR RECOVERY SYSTEM, LENGTH: 60 FT; DIAMETER: 12 FT A/N: 483985	D216				E57.1, H23.7
VESSEL, SEPARATOR, AUTOMATIC WELL TESTER, AWT-1, VENTED TO VAPOR RECOVERY SYSTEM, HEIGHT: 10 FT; DIAMETER: 6 FT A/N: 483985	D271				E57.1, H23.7
VESSEL, SEPARATOR, AUTOMATIC WELL TESTER, AWT-2, VENTED TO VAPOR RECOVERY SYSTEM, HEIGHT: 10 FT; DIAMETER: 6 FT A/N: 483985	D272				E57.1, H23.7
VESSEL, SEPARATOR, AUTOMATIC WELL TESTER, AWT-3, VENTED TO VAPOR RECOVERY SYSTEM, HEIGHT: 10 FT; DIAMETER: 6 FT A/N: 483985	D273				E57.1, H23.7
VESSEL, SEPARATOR, AUTOMATIC WELL TESTER, AWT-4, VENTED TO VAPOR RECOVERY SYSTEM, HEIGHT: 10 FT; DIAMETER: 6 FT A/N: 483985	D274				E57.1, H23.7

- | | |
|---|---|
| <p>* (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</p> | <p>(2)(2A)(2B) Denotes RECLAIM emission rate
 (4) Denotes BACT emission limit
 (6) Denotes air toxic control rule limit
 (8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (10) See Section J for NESHAP/MACT requirements</p> |
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** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1 : Pier J-2,4,6; Petroleum Production					
VESSEL, SEPARATOR, AUTOMATIC WELL TESTER, AWT-5, VENTED TO VAPOR RECOVERY SYSTEM, HEIGHT: 10 FT; DIAMETER: 6 FT A/N: 483985	D275				E57.1, H23.7
System 3 : Wastewater Treatment					
STORAGE TANK, TK-001, WATER CLARIFIER, FIXED ROOF, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 3000 BBL; DIAMETER: 30 FT; HEIGHT: 24 FT A/N: 483986	D14				E57.1, E57.3, H23.7
STORAGE TANK, TK-002, WATER CLARIFIER, FIXED ROOF, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 3000 BBL; DIAMETER: 30 FT; HEIGHT: 24 FT A/N: 483986	D15				E57.1, E57.3, H23.7
STORAGE TANK, TK-003, WATER CLARIFIER, FIXED ROOF, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 3000 BBL; DIAMETER: 30 FT; HEIGHT: 24 FT A/N: 483986	D16				E57.1, E57.3, H23.7
STORAGE TANK, FIXED ROOF, TK-010, RECOVERED OIL, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 200 BBL; DIAMETER: 15 FT; HEIGHT: 10 FT A/N: 483986	D18				E57.1, E57.3, H23.7

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

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

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1 : Pier J-2,4,6; Petroleum Production					
WASTE WATER SEPARATOR, SEDIMENT BASIN, SB-1, FIXED STEEL ROOF, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 2400 BBL; WIDTH: 34 FT; DEPTH: 6 FT; LENGTH: 65 FT A/N: 483986	D19				E57.1, E57.3, H23.7
WASTE WATER SEPARATOR, SEDIMENT BASIN, SB-2, FIXED STEEL ROOF, VENTED TO THE VAPOR RECOVERY COMPRESSOR., 700 BBL; WIDTH: 24 FT; DEPTH: 6 FT; LENGTH: 28 FT A/N: 483986	D20				E57.1, E57.3, H23.7
TANK, TK-058, WATER SURGE, FIXED ROOF, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 3000 BBL; DIAMETER: 30 FT; HEIGHT: 24 FT A/N: 483986	D21				E57.1, E57.3, H23.7
STORAGE TANK, FIXED ROOF, TK-019A, SURGE, 1680 BBL; DIAMETER: 20 FT; HEIGHT: 30 FT A/N: 483986	D22				H23.7
FLOATATION UNIT, WEMCO-1, 1125 GPM, VENTED TO VAPOR RECOVERY COMPRESSOR, WITH SOLID STEEL GAS-TIGHT COVER AND VAREC BREATHER VALVE A/N: 483986	D23				E57.1, H23.7

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

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FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1 : Pier J-2,4,6; Petroleum Production					
FLOATATION UNIT, WEMCO-2, 1125 GPM, VENTED TO VAPOR RECOVERY COMPRESSOR, WITH SOLID STEEL GAS-TIGHT COVER AND VAREC BREATHHER VALVE A/N: 483986	D24				E57.1, H23.7
FLOATATION UNIT, WEMCO-3, MODEL 120X, VENTED TO VAPOR RECOVERY COMPRESSOR, WITH SOLID STEEL GAS-TIGHT COVER A/N: 483986	D222				E57.1, H23.7
TANK, TK-036, RAW-WATER, FIXED ROOF, 2014 BBL; DIAMETER: 25 FT; HEIGHT: 14 FT A/N: 483986	D25				
TANK, TK-037, FILTERED BACKWASH, FIXED ROOF, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 1400 BBL; DIAMETER: 30 FT; HEIGHT: 16 FT A/N: 483986	D26				E57.1, E57.3, H23.7
STORAGE TANK, FIXED ROOF, TK-005, PRODUCED WATER, CLEAN-UP, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 725 BBL; DIAMETER: 18 FT; HEIGHT: 16 FT A/N: 483986	D144				E57.1, E57.3, 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

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FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1 : Pier J-2,4,6; Petroleum Production					
STORAGE TANK, FIXED ROOF, TK-004, SKIM OIL/BACK-UP SURGE, CRUDE OIL, CONNECTED TO THE VAPOR RECOVERY COMPRESSOR, 2000 BBL; DIAMETER: 30 FT; HEIGHT: 16 FT A/N: 483986	D188				E57.1, E57.3, H23.8
FILTER, SAND, HEIGHT: 19 FT 3 IN; DIAMETER: 12 FT A/N: 483986	D276				
FILTER, SAND, HEIGHT: 19 FT 3 IN; DIAMETER: 12 FT A/N: 483986	D277				
FILTER, SAND, HEIGHT: 19 FT 3 IN; DIAMETER: 12 FT A/N: 483986	D278				
FILTER, SAND, HEIGHT: 19 FT 3 IN; DIAMETER: 12 FT A/N: 483986	D279				
FILTER, SAND, HEIGHT: 19 FT 3 IN; DIAMETER: 12 FT A/N: 483986	D280				
FILTER, SAND, HEIGHT: 19 FT 3 IN; DIAMETER: 12 FT A/N: 483986	D281				
System 4 : Gas & Hydrogen Sulfide Scrubbing					
ABSORBER, V-2A WITH A/N: 275564	C32				B61.1, D90.1

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

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FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1 : Pier J-2,4,6; Petroleum Production					
VESSEL, KNOCKOUT, V-1	D33				
ABSORBER, V-2B, (PIER J4), VENTING THE EMERGENCY NATURAL GAS VENT SYSTEM. WITH A/N: 275564	C34				B61.1, D90.1
VESSEL, KNOCKOUT, V-4	D35				
SCRUBBER, V-1A, HYDROGEN SULFIDE, VENTED TO THE VAPOR RECOVERY COMPRESSOR, HEIGHT: 25 FT; DIAMETER: 15 FT A/N: 312024	C185	C36 C37 D284 D285			D90.2, E71.1, E71.2, H23.9
SCRUBBER, V-1B, HYDROGEN SULFIDE, STANDBY & MAINTENANCE, VENTED TO THE VAPOR RECOVERY COMPRESSOR, HEIGHT: 25 FT; DIAMETER: 15 FT A/N: 312024	C186	C36 C37 D284 D285			D90.2, E71.1, E71.2, H23.9
System 5 : NATURAL GAS VENTING/DISPOSAL SYSTEM					
SCRUBBER, SC-1, CAUSTIC, (PIER J4), HEIGHT: 24 FT 6 IN; DIAMETER: 10 FT 6 IN A/N: 436824	C36	C185 C186 C187			E57.3
SCRUBBER, SC-2, CAUSTIC, (PIER J4), HEIGHT: 24 FT 6 IN; DIAMETER: 10 FT 6 IN A/N: 436824	C37	C185 C186 C187			E57.3

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

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FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1 : Pier J-2,4,6; Petroleum Production					
FLARE, ELEVATED WITHOUT STEAM, WITH AN ULTRASONIC TRANSIT-TIME FLOWMETER, NATURAL GAS, PROCESS GAS, WITH A PILOT, NATURAL GAS FIRED, 0.045 MMBTU/H, HEIGHT: 170 FT; DIAMETER: 8 IN; 500 MMBTU/HR A/N: 436824	C187	C36 C37			B59.1, C1.2, C1.3, D12.4, D12.5, D12.6, E71.4, H23.10, K48.2, K67.1
System 6 : Brine Processing & Storage					
STORAGE TANK, FIXED ROOF, TK-053, CLAY/OIL BASED WASTE, AND/OR BRINE FLUIDS, 4175 BBL; DIAMETER: 35 FT; HEIGHT: 24 FT A/N: 492449	D5				E51.1, E57.1, H23.6
STORAGE TANK, FIXED ROOF, TK-052, CLAY/OIL BASED WASTE, AND/OR BRINE FLUIDS, 3485 BBL; DIAMETER: 32 FT; HEIGHT: 24 FT A/N: 492451	D6				E51.1, E57.1, H23.6
STORAGE TANK, FIXED ROOF, TK-034, BRINEWATER, 483 BBL; DIAMETER: 12 FT; HEIGHT: 24 FT A/N: 331854	D199				H23.11
STORAGE TANK, FIXED ROOF, TK-030, BRINEWATER, 250 BBL; DIAMETER: 15 FT; HEIGHT: 8 FT A/N: 331853	D200				H23.11

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

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FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1 : Pier J-2,4,6; Petroleum Production					
System 7 : Vapor Recovery System					
SCRUBBER, INLET GAS SCRUBBER, SERVING TANKS & VESSELS AND VENTED TO VAPOR RECOVERY COMPRESSOR, HEIGHT: 14 FT; DIAMETER: 9 FT 6 IN A/N: 483987	D282				
SCRUBBER, INLET GAS SCRUBBER, SERVING TANKS & VESSELS AND VENTED TO VAPOR RECOVERY COMPRESSOR, HEIGHT: 5 FT; DIAMETER: 2 FT A/N: 483987	D283				
SCRUBBER, MASTER GAS SCRUBBER, NO. 1, SERVING TANKS & VESSELS AND GAS FROM ISLANDS SUBMARINE PIPE LINES,, HEIGHT: 22 FT; DIAMETER: 10 FT A/N: 483987	D284	C185 C186			
SCRUBBER, MASTER GAS SCRUBBER, NO. 2, SERVING TANKS & VESSELS AND GAS RECEIVED FROM ISLANDS SUBMARINE PIPELINES, HEIGHT: 22 FT; DIAMETER: 10 FT A/N: 483987	D285	C185 C186			

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

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FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 3 : Island Freeman Petroleum Production					
System 1 : Wastewater Treatment					
TANK, TK-529, BACKWASH, 1250 BBL; DIAMETER: 20 FT; HEIGHT: 22 FT A/N: 370604	D38				H23.7
FLOATATION UNIT, FL-500, 4 SECTION, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 1200 CU.FT. A/N: 370604	D39				E57.1, H23.7
FLOATATION UNIT, FL-502, 4 SECTION, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 1080 CU.FT. A/N: 370604	D40				E57.1, H23.7
FLOATATION UNIT, FL-502, 4 SECTION, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 1080 CU.FT. A/N: 370604	D158				E57.1, H23.7
FLOATATION UNIT, FL-503, 4 SECTION, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 1080 CU.FT. A/N: 370604	D159				E57.1, H23.7
SKIMMING POND, 2 SECTION, WITH FIXED STEEL COVER, VENTED TO THE VAPOR RECOVERY COMPRESSOR, WIDTH: 24 FT; HEIGHT: 8 FT; LENGTH: 60 FT A/N: 370604	D43				E57.1, 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

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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 3 : Island Freeman Petroleum Production					
SUMP, COVERED, WIDTH: 8 FT; DEPTH: 3 FT; LENGTH: 5 FT A/N: 370604	D44				H23.7
TANK, TK-523, WATER RECEIVING, FIXED ROOF, WITH GAS BLANKET, CONNECTED TO VAPOR RECOVERY COMPRESSOR, 4000 BBL; DIAMETER: 35 FT; HEIGHT: 24 FT A/N: 370604	D147				E57.1, H23.6
System 2 : Oil/Water/Gas Separation					
VESSEL, KO-500, FREE WATER KNOCKOUT, VENTED TO THE VAPOR RECOVERY SYSTEM, LENGTH: 60 FT; DIAMETER: 12 FT A/N: 483988	D45				E57.1, H23.7
VESSEL, KO-501, FREE WATER KNOCKOUT, VENTED TO THE VAPOR RECOVERY SYSTEM, LENGTH: 60 FT; DIAMETER: 12 FT A/N: 483988	D46				E57.1, H23.7
VESSEL, KO-502, FREE WATER KNOCKOUT, VENTED TO THE VAPOR RECOVERY SYSTEM, LENGTH: 60 FT; DIAMETER: 12 FT A/N: 483988	D150				E57.1, H23.7
VESSEL, SEPARATOR, T-80, VENTED TO THE VAPOR RECOVERY SYSTEM, HEIGHT: 10 FT; DIAMETER: 4 FT A/N: 483988	D49				E57.1, 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
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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 3 : Island Freeman Petroleum Production					
VESSEL, SEPARATOR, T-81, VENTED TO THE VAPOR RECOVERY SYSTEM, HEIGHT: 10 FT; DIAMETER: 4 FT A/N: 483988	D50				E57.1, H23.7
VESSEL, SEPARATOR, T-82, VENTED TO THE VAPOR RECOVERY SYSTEM, HEIGHT: 10 FT; DIAMETER: 6 FT A/N: 483988	D51				E57.1, H23.7
VESSEL, SEPARATOR, T-83, VENTED TO THE VAPOR RECOVERY SYSTEM, HEIGHT: 10 FT; DIAMETER: 6 FT A/N: 483988	D52				E57.1, H23.7
VESSEL, SEPARATOR, T-84, VENTED TO THE VAPOR RECOVERY SYSTEM, HEIGHT: 10 FT; DIAMETER: 6 FT A/N: 483988	D53				E57.1, H23.7
VESSEL, T-85, SEPARATOR, VENTED TO THE VAPOR RECOVERY SYSTEM, HEIGHT: 10 FT; DIAMETER: 6 FT A/N: 483988	D160				E57.1, H23.7
VESSEL, T-86, SEPARATOR, VENTED TO THE VAPOR RECOVERY SYSTEM, HEIGHT: 10 FT; DIAMETER: 6 FT A/N: 483988	D161				E57.1, H23.7
VESSEL, T-87, SEPARATOR, VENTED TO THE VAPOR RECOVERY SYSTEM, HEIGHT: 10 FT; DIAMETER: 6 FT A/N: 483988	D162				E57.1, H23.7

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| <ul style="list-style-type: none"> * (1)(1A)(1B) Denotes RECLAIM emission factor (3) Denotes RECLAIM concentration limit (5)(5A)(5B) Denotes command and control emission limit (7) Denotes NSR applicability limit (9) See App B for Emission Limits | <ul style="list-style-type: none"> (2)(2A)(2B) Denotes RECLAIM emission rate (4) Denotes BACT emission limit (6) Denotes air toxic control rule limit (8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.) (10) See Section J for NESHAP/MACT requirements |
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FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 3 : Island Freeman Petroleum Production					
VESEL, T-88, SEPARATOR, VENTED TO THE VAPOR RECOVERY SYSTEM, HEIGHT: 10 FT; DIAMETER: 6 FT A/N: 483988	D163				E57.1, H23.7
TANK, TK-518, CLEAN-UP, FIXED ROOF, VENTED TO THE VAPOR RECOVERY COMPRESSOR, HEIGHT: 15 FT; DIAMETER: 8 FT A/N: 483988	D54				E57.1, H23.7
TANK, TK-519, CLEAN-UP, FIXED ROOF, VENTED TO THE VAPOR RECOVERY COMPRESSOR, HEIGHT: 15 FT; DIAMETER: 8 FT A/N: 483988	D55				E57.1, H23.7
TANK, TK-520, CLEAN-UP, FIXED ROOF, VENTED TO THE VAPOR RECOVERY COMPRESSOR, HEIGHT: 15 FT; DIAMETER: 8 FT A/N: 483988	D56				E57.1, H23.7
TANK, TK-525, CLARIFIER, FIXED ROOF, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 3000 BBL; DIAMETER: 30 FT; HEIGHT: 24 FT A/N: 483988	D57				E57.1, H23.7
TANK, TK-526, CLARIFIER, FIXED ROOF, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 3000 BBL; DIAMETER: 30 FT; HEIGHT: 24 FT A/N: 483988	D58				E57.1, 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

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FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 3 : Island Freeman Petroleum Production					
TANK, SURGE, TK-527, WATER, FIXED ROOF, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 2000 BBL; DIAMETER: 25 FT; HEIGHT: 20 FT A/N: 483988	D59				E57.1, H23.7
TANK, TK-528, SKIM OIL, FIXED ROOF, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 600 BBL; DIAMETER: 15 FT; HEIGHT: 20 FT A/N: 483988	D60				E57.1, H23.6
System 3 : Temporary Petroleum Storage and Control Equipment					
STORAGE TANK, BAKER, TEMPORARY STORAGE, 500 BBL; WIDTH: 10 FT; HEIGHT: 9 FT; LENGTH: 41 FT A/N: 344099	D204	C203			E57.2, E80.1, H23.7
STORAGE TANK, BAKER, TEMPORARY STORAGE, 500 BBL; WIDTH: 10 FT; HEIGHT: 9 FT; LENGTH: 41 FT A/N: 344101	D205	C203			E57.2, E80.1, H23.7
CARBON ADSORBER, ACTIVATED CARBON, VENTING TWO TEMPORARY BAKER TANKS, CONNECTED IN SERIES,, 1000 LBS A/N: 483989	C203	D204 D205 C206			D90.3, E153.1, H23.12, K67.2

- * (1)(1A)(1B) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5)(5A)(5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2)(2A)(2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
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FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 3 : Island Freeman Petroleum Production					
CARBON ADSORBER, ACTIVATED CARBON, VENTING TWO TEMPORARY BAKER TANKS, CONNECTED IN SERIES., 1000 LBS A/N: 483989	C206	C203			D90.3, E153.1, H23.12, K67.2
System 4 : Vapor Recovery System					
SCRUBBER, INLET GAS SCRUBBER, SERVING TANKS & VESSELS AND VENTED TO VAPOR RECOVERY COMPRESSOR, HEIGHT: 8 FT; DIAMETER: 3 FT A/N: 370605	D256				
SCRUBBER, MASTER GAS SCRUBBER, VENTED TO SUBMARINE PIPELINE, HEIGHT: 12 FT; DIAMETER: 5 FT A/N: 370605	D257				
Process 4 : Island Chaffee Petroleum Production					
System 1 : Wastewater Treatment					
TANK, TK-433, CLARIFIER, FIXED ROOF, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 3000 BBL; DIAMETER: 30 FT; HEIGHT: 24 FT A/N: 482633	D78				E57.1, H23.7
TANK, TK-434, CLARIFIER, FIXED ROOF, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 3000 BBL; DIAMETER: 30 FT; HEIGHT: 24 FT A/N: 482633	D79				E57.1, 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

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FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 4 : Island Chaffee Petroleum Production					
TANK, SURGE, TK-432, WATER, FIXED ROOF, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 2000 BBL; DIAMETER: 25 FT; HEIGHT: 20 FT A/N: 482633	D80				E57.1, H23.7
FLOATATION UNIT, FL-400, 4 SECTION, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 1200 CU.FT. A/N: 482633	D63				E57.1, H23.7
FLOATATION UNIT, FL-401, 4 SECTION, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 1200 CU.FT. A/N: 482633	D64				E57.1, H23.7
FLOATATION UNIT, FL-402, 4 SECTION, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 1200 CU.FT. A/N: 482633	D65				E57.1, H23.7
FLOATATION UNIT, #4, MODEL 84, 4 SECTIONS, VENTED TO VAPOR RECOVERY COMPRESSOR A/N: 482633	D244				E57.1, H23.7
FILTER, SAND, HEIGHT: 16 FT; DIAMETER: 12 FT A/N: 482633	D245				
FILTER, SAND, HEIGHT: 16 FT; DIAMETER: 12 FT A/N: 482633	D246				

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|---|---|
| <p>* (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</p> | <p>(2)(2A)(2B) Denotes RECLAIM emission rate
 (4) Denotes BACT emission limit
 (6) Denotes air toxic control rule limit
 (8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (10) See Section J for NESHAP/MACT requirements</p> |
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** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 4 : Island Chaffee Petroleum Production					
FILTER, SAND, HEIGHT: 16 FT; DIAMETER: 12 FT A/N: 482633	D247				
FILTER, SAND, HEIGHT: 16 FT; DIAMETER: 12 FT A/N: 482633	D248				
SUMP, CRUDE OIL, COVERED, WIDTH: 8 FT; DEPTH: 3 FT; LENGTH: 5 FT A/N: 482633	D151				H23.7
SUMP, CRUDE OIL, COVERED, WIDTH: 8 FT; DEPTH: 3 FT; LENGTH: 5 FT A/N: 482633	D152				H23.7
TANK, TK-422, WATER RECEIVING, FIXED ROOF, WITH GAS BLANKET, CONNECTED TO VAPOR RECOVERY COMPRESSOR, 4000 BBL; DIAMETER: 35 FT; HEIGHT: 24 FT A/N: 482633	D61				E57.1, H23.7
TANK, TK-430, BACKWASH,, FIXED ROOF, 1250 BBL; DIAMETER: 20 FT; HEIGHT: 22 FT A/N: 482633	D62				H23.7
STORAGE TANK, FIXED ROOF, DISPOSAL SURGE TANK, CRUDE OIL, CONE BOTTOM, CONNECTED TO VAPOR RECOVERY COMPRESSOR, 630 BBL; DIAMETER: 14 FT; HEIGHT: 22 FT A/N: 482633	D287				E57.1, H23.6

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

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FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 4 : Island Chaffee Petroleum Production					
System 2 : Oil/Water/Gas Separation					
VESSEL, KO-401, FREE WATER KNOCKOUT, VENTED TO THE VAPOR RECOVERY SYSTEM, LENGTH: 60 FT; DIAMETER: 12 FT A/N: 342827	D66				E57.1, H23.7
VESSEL, KO-402, FREE WATER KNOCKOUT, VENTED TO THE VAPOR RECOVERY SYSTEM, LENGTH: 60 FT; DIAMETER: 12 FT A/N: 342827	D67				E57.1, H23.7
VESSEL, KO-403, FREE WATER KNOCKOUT, VENTED TO THE VAPOR RECOVERY SYSTEM A/N: 342827	D156				E57.1, H23.7
VESSEL, SEPARATOR, T-60, VENTED TO THE VAPOR RECOVERY SYSTEM, HEIGHT: 10 FT; DIAMETER: 4 FT A/N: 342827	D68				E57.1, H23.7
VESSEL, SEPARATOR, T-61, VENTED TO THE VAPOR RECOVERY SYSTEM, HEIGHT: 10 FT; DIAMETER: 4 FT A/N: 342827	D69				E57.1, H23.7
VESSEL, SEPARATOR, T-62, VENTED TO THE VAPOR RECOVERY SYSTEM, HEIGHT: 10 FT; DIAMETER: 6 FT A/N: 342827	D70				E57.1, H23.7

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

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FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 4 : Island Chaffee Petroleum Production					
VESSEL, SEPARATOR, T-63, VENTED TO THE VAPOR RECOVERY SYSTEM, HEIGHT: 10 FT; DIAMETER: 6 FT A/N: 342827	D71				E57.1, H23.7
VESSEL, SEPARATOR, T-64, VENTED TO THE VAPOR RECOVERY SYSTEM, HEIGHT: 10 FT; DIAMETER: 6 FT A/N: 342827	D72				E57.1, H23.7
VESSEL, SEPARATOR, T-65, VENTED TO THE VAPOR RECOVERY SYSTEM, HEIGHT: 10 FT; DIAMETER: 6 FT A/N: 342827	D73				E57.1, H23.7
VESSEL, SEPARATOR, T-66, VENTED TO THE VAPOR RECOVERY SYSTEM, HEIGHT: 10 FT; DIAMETER: 6 FT A/N: 342827	D74				E57.1, H23.7
VESSEL, SEPARATOR, T-67, VENTED TO THE VAPOR RECOVERY SYSTEM, HEIGHT: 10 FT; DIAMETER: 6 FT A/N: 342827	D154				E57.1, H23.7
VESSEL, SEPARATOR, T-68, VENTED TO THE VAPOR RECOVERY SYSTEM, HEIGHT: 10 FT; DIAMETER: 6 FT A/N: 342827	D155				E57.1, H23.7
TANK, TK-418, CLEAN-UP, FIXED ROOF, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 130 BBL; DIAMETER: 8 FT; HEIGHT: 15 FT A/N: 342827	D75				E57.1, 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

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FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 4 : Island Chaffee Petroleum Production					
TANK, TK-419, CLEAN-UP, FIXED ROOF, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 130 BBL; DIAMETER: 8 FT; HEIGHT: 15 FT A/N: 342827	D76				E57.1, H23.7
TANK, TK-420, CLEAN-UP, FIXED ROOF, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 130 BBL; DIAMETER: 8 FT; HEIGHT: 15 FT A/N: 342827	D77				E57.1, H23.7
TANK, TK-431, SKIM OIL, FIXED ROOF, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 600 BBL; DIAMETER: 15 FT; HEIGHT: 20 FT A/N: 342827	D81				E57.1, H23.7
SKIMMING POND, 2 SECTION, WITH FIXED STEEL COVER, VENTED TO THE VAPOR RECOVERY COMPRESSOR., WIDTH: 24 FT; LENGTH: 60 FT A/N: 342827	D153				E57.1, H23.7
System 3 : Temporary Petroleum Storage and Control Equipment					
STORAGE TANK, BAKER, TEMPORARY STORAGE, 500 BBL; WIDTH: 10 FT; HEIGHT: 9 FT; LENGTH: 41 FT A/N: 342806	D201	C208			E57.2, E80.2, H23.7

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

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FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 4 : Island Chaffee Petroleum Production					
STORAGE TANK, BAKER, TEMPORARY STORAGE, 500 BBL; WIDTH: 10 FT; HEIGHT: 9 FT; LENGTH: 41 FT A/N: 342811	D202	C208			E57.2, E80.2, H23.7
STORAGE TANK, BAKER, TEMPORARY STORAGE, 500 BBL; WIDTH: 10 FT; HEIGHT: 9 FT; LENGTH: 41 FT A/N: 344103	D207	C208			E57.2, E80.2, H23.7
CARBON ADSORBER, ACTIVATED CARBON, VENTING THREE TEMPORARY BAKER TANKS, CONNECTED IN SERIES,, 1000 LBS A/N: 483990	C208	D201 D202 D207 C209			D90.3, E153.1, H23.12, K67.2
CARBON ADSORBER, ACTIVATED CARBON, VENTING THREE TEMPORARY BAKER TANKS, CONNECTED IN SERIES,, 1000 LBS A/N: 483990	C209	C208			D90.3, E153.1, H23.12, K67.2
System 4 : Vapor Recovery System					
SCRUBBER, INLET GAS SCRUBBER, SERVING TANKS & VESSELS AND VENTED TO VAPOR RECOVERY COMPRESSOR, HEIGHT: 8 FT; DIAMETER: 3 FT A/N: 370598	D258				

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| <p>* (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</p> | <p>(2)(2A)(2B) Denotes RECLAIM emission rate
 (4) Denotes BACT emission limit
 (6) Denotes air toxic control rule limit
 (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
 (10) See Section J for NESHAP/MACT requirements</p> |
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FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 4 : Island Chaffee Petroleum Production					
SCRUBBER, MASTER GAS SCRUBBER, VENTED TO-SUBMARINE PIPELINE, HEIGHT: 12 FT; DIAMETER: 5 FT A/N: 370598	D259				
Process 5 : Island Grissom; Petroleum Production					
System 1 : Wastewater Treatment					
TANK, TK-221, WATER RECEIVING, FIXED ROOF, WITH GAS BLANKET, CONNECTED TO VAPOR RECOVERY COMPRESSOR, 4000 BBL; DIAMETER: 35 FT; HEIGHT: 24 FT A/N: 370606	D93				E57.1, H23.7
TANK, TK-227, BACKWASH, 1250 BBL; DIAMETER: 20 FT; HEIGHT: 22 FT A/N: 370606	D94				H23.7
FLOATATION UNIT, FS-200, 4 SECTION, VENTED TO THE VAPOR RECOVERY COMPRESSOR A/N: 370606	D95				E57.1, H23.7
FLOATATION UNIT, FS-201, 4 SECTION, VENTED TO THE VAPOR RECOVERY COMPRESSOR A/N: 370606	D96				E57.1, H23.7
FLOATATION UNIT, FS-202, 4 SECTION, VENTED TO THE VAPOR RECOVERY COMPRESSOR A/N: 370606	D97				E57.1, H23.7

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| <p>* (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</p> | <p>(2)(2A)(2B) Denotes RECLAIM emission rate
 (4) Denotes BACT emission limit
 (6) Denotes air toxic control rule limit
 (8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (10) See Section J for NESHAP/MACT requirements</p> |
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FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 5 : Island Grissom; Petroleum Production					
FLOATATION UNIT, FS-203, 4 SECTION, VENTING TO THE VAPOR RECOVERY COMPRESSOR, 1080 CU.FT. A/N: 370606	D98				E57.1, H23.7
WASTE WATER SEPARATOR, SB-1, SEDIMENT BASIN #1, FIXED COVER, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 2050 BBL; WIDTH: 12 FT; DEPTH: 8 FT; LENGTH: 60 FT A/N: 370606	D99				E57.1, H23.7
System 2 : Oil/Water/Gas Separation					
VESSEL, KO-200, FREE WATER KNOCKOUT, VENTED TO THE VAPOR RECOVERY COMPRESSOR, LENGTH: 60 FT; DIAMETER: 12 FT A/N: 278486	D100				E57.1, H23.7
VESSEL, KO-201, FREE WATER KNOCKOUT, VENTED TO THE VAPOR RECOVERY COMPRESSOR, LENGTH: 60 FT; DIAMETER: 12 FT A/N: 278486	D164				E57.1, H23.7
VESSEL, KO-202, FREE WATER KNOCKOUT, VENTED TO THE VAPOR RECOVERY COMPRESSOR, LENGTH: 60 FT; DIAMETER: 12 FT A/N: 278486	D165				E57.1, H23.7

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| <p>* (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</p> | <p>(2)(2A)(2B) Denotes RECLAIM emission rate
 (4) Denotes BACT emission limit
 (6) Denotes air toxic control rule limit
 (8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (10) See Section J for NESHAP/MACT requirements</p> |
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FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 5 : Island Grissom; Petroleum Production					
VESSEL, T-20, SEPARATOR, VENTED TO THE VAPOR RECOVERY SYSTEM, HEIGHT: 10 FT; DIAMETER: 4 FT A/N: 278486	D166				E57.1, H23.7
VESSEL, T-21, SEPARATOR, VENTED TO THE VAPOR RECOVERY SYSTEM, HEIGHT: 10 FT; DIAMETER: 6 FT A/N: 278486	D167				E57.1, H23.7
VESSEL, SEPARATOR, T-22, VENTED TO THE VAPOR RECOVERY SYSTEM, HEIGHT: 10 FT; DIAMETER: 6 FT A/N: 278486	D101				E57.1, H23.7
VESSEL, SEPARATOR, T-23, VENTED TO THE VAPOR RECOVERY SYSTEM, HEIGHT: 10 FT; DIAMETER: 6 FT A/N: 278486	D102				E57.1, H23.7
VESSEL, SEPARATOR, T-24, VENTED TO THE VAPOR RECOVERY SYSTEM, HEIGHT: 10 FT; DIAMETER: 6 FT A/N: 278486	D103				E57.1, H23.7
VESSEL, SEPARATOR, T-25, VENTED TO THE VAPOR RECOVERY SYSTEM, HEIGHT: 10 FT; DIAMETER: 6 FT A/N: 278486	D104				E57.1, H23.7
VESSEL, SEPARATOR, T-26, VENTED TO THE VAPOR RECOVERY SYSTEM, HEIGHT: 10 FT; DIAMETER: 6 FT A/N: 278486	D105				E57.1, 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

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FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 5 : Island Grissom; Petroleum Production					
VESSEL, SEPARATOR, T-27, VENTED TO THE VAPOR RECOVERY SYSTEM, HEIGHT: 10 FT; DIAMETER: 6 FT A/N: 278486	D106				E57.1, H23.7
TANK, T-219, CLEAN-UP, FIXED ROOF, VENTED TO THE VAPOR RECOVERY COMPRESSOR, HEIGHT: 15 FT; DIAMETER: 8 FT A/N: 278486	D107				E57.1, H23.7
TANK, TK-220, CLEAN-UP, FIXED ROOF, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 130 BBL; DIAMETER: 8 FT; HEIGHT: 15 FT A/N: 278486	D108				E57.1, H23.7
TANK, TK-223, CLARIFIER, FIXED ROOF, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 3000 BBL; DIAMETER: 30 FT; HEIGHT: 24 FT A/N: 278486	D109				E57.1, H23.7
TANK, TK-224, CLARIFIER, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 3000 BBL; DIAMETER: 30 FT; HEIGHT: 24 FT A/N: 278486	D110				E57.1, H23.7
TANK, TK-225, WATER SURGE, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 2000 BBL; DIAMETER: 25 FT; HEIGHT: 20 FT A/N: 278486	D111				E57.1, 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

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FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 5 : Island Grissom; Petroleum Production					
TANK, TK-226, SKIM OIL, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 600 BBL; DIAMETER: 15 FT; HEIGHT: 20 FT A/N: 278486	D112				E57.1, H23.7
SUMP, COVERED, WIDTH: 8 FT; DEPTH: 3 FT; LENGTH: 5 FT A/N: 278486	D114				H23.7
System 3 : Temporary Petroleum Storage and Control Equipment					
STORAGE TANK, BAKER, TEMPORARY STORAGE, 500 BBL; WIDTH: 10 FT; HEIGHT: 9 FT; LENGTH: 41 FT A/N: 329411	D196	C198			E57.2, E80.3, H23.7
STORAGE TANK, BAKER, TEMPORARY STORAGE, 500 BBL; WIDTH: 10 FT; HEIGHT: 9 FT; LENGTH: 41 FT A/N: 329412	D197	C198			E57.2, E80.3, H23.7
CARBON ADSORBER, ACTIVATED CARBON, VENTING TWO TEMPORARY BAKER TANKS, CONNECTED IN SERIES, 1000 LBS A/N: 483991	C198	D196-D197 C286			D90.3, E153.1, H23.12, K67.2
CARBON ADSORBER, ACTIVATED CARBON, VENTING TWO TEMPORARY BAKER TANKS, CONNECTED IN SERIES, 1000 LBS A/N: 483991	C286	C198			D90.3, E153.1, H23.12, K67.2

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

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FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 5 : Island Grissom; Petroleum Production					
System 4 : Vapor Recovery System					
SCRUBBER, INLET GAS SCRUBBER, SERVING TANKS & VESSELS AND VENTED TO VAPOR RECOVERY COMPRESSOR, HEIGHT: 8 FT; DIAMETER: 3 FT A/N: 370607	D260				
SCRUBBER, MASTER GAS SCRUBBER, VENTED TO SUBMARINE PIPELINE, HEIGHT: 12 FT; DIAMETER: 5 FT A/N: 370607	D261				
Process 6 : Island White; Petroleum Production					
System 1 : Wastewater Treatment					
TANK, CLARIFIER, FIXED ROOF, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 3000 BBL; DIAMETER: 30 FT; HEIGHT: 24 FT A/N: 463390	D130				E57.1, H23.7
TANK, CLARIFIER, FIXED ROOF, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 3000 BBL; DIAMETER: 30 FT; HEIGHT: 24 FT A/N: 463390	D131				E57.1, H23.7
TANK, SURGE, FIXED ROOF, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 2000 BBL; DIAMETER: 25 FT; HEIGHT: 20 FT A/N: 463390	D132				E57.1, 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

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FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 6 : Island White; Petroleum Production					
FLOATATION UNIT, 4 SECTION, VENTED TO THE VAPOR RECOVERY COMPRESSOR., 1200 CU.FT. A/N: 463390	D116				E57.1, H23.7
FLOATATION UNIT, 4 SECTION, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 1080 CU.FT. A/N: 463390	D117				E57.1, H23.7
FLOATATION UNIT, 4 SECTION, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 1080 CU.FT. A/N: 463390	D118				E57.1, H23.7
FLOATATION UNIT, #4, MODEL 84X, 4 SECTIONS, VENTED TO VAPOR RECOVERY COMPRESSOR A/N: 463390	D249				E57.1, H23.7
FILTER, SAND, HEIGHT: 16 FT; DIAMETER: 12 FT A/N: 463390	D250				
FILTER, SAND, HEIGHT: 16 FT; DIAMETER: 12 FT A/N: 463390	D251				
FILTER, SAND, HEIGHT: 16 FT; DIAMETER: 12 FT A/N: 463390	D252				
FILTER, SAND, HEIGHT: 16 FT; DIAMETER: 12 FT A/N: 463390	D253				

- * (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 THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 6 : Island White; Petroleum Production					
WASTE WATER SEPARATOR, SEDIMENT BASIN #1, FIXED STEEL COVER, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 2400 BBL; WIDTH: 34 FT; DEPTH: 6 FT; LENGTH: 65 FT A/N: 463390	D119				E57.1, H23.7
TANK, WATER RECEIVING, FIXED ROOF, WITH GAS BLANKET, CONNECTED TO VAPOR RECOVERY COMPRESSOR, 4000 BBL; DIAMETER: 35 FT; HEIGHT: 24 FT A/N: 463390	D115				E57.1, H23.7
TANK, WATER RECEIVING, 4000 BBL; DIAMETER: 35 FT; HEIGHT: 24 FT A/N: 463390	D189				
TANK, BACKWASH, 1250 BBL; DIAMETER: 20 FT; HEIGHT: 22 FT A/N: 463390	D190				H23.7
System 2 : Oil/Water/Gas Separation					
VESSEL, FREE WATER KNOCKOUT, VENTED TO THE VAPOR RECOVERY SYSTEM, LENGTH: 60 FT; DIAMETER: 12 FT A/N: 278483	D120				E57.1, H23.7
VESSEL, FREE WATER KNOCKOUT, VENTED TO THE VAPOR RECOVERY SYSTEM, LENGTH: 60 FT; DIAMETER: 12 FT A/N: 278483	D121				E57.1, H23.7

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|---|---|
| <p>* (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</p> | <p>(2)(2A)(2B) Denotes RECLAIM emission rate
 (4) Denotes BACT emission limit
 (6) Denotes air toxic control rule limit
 (8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (10) See Section J for NESHAP/MACT requirements</p> |
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** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 6 : Island White; Petroleum Production					
VESSEL, FREE WATER KNOCKOUT, VENTED TO THE VAPOR RECOVERY SYSTEM, LENGTH: 60 FT; DIAMETER: 12 FT A/N: 278483	D168				E57.1, H23.7
VESSEL, SEPARATOR, VENTED TO THE VAPOR RECOVERY SYSTEM, HEIGHT: 10 FT; DIAMETER: 4 FT A/N: 278483	D169				E57.1, H23.7
VESSEL, SEPARATOR, VENTED TO THE VAPOR RECOVERY SYSTEM, HEIGHT: 10 FT; DIAMETER: 6 FT A/N: 278483	D122				E57.1, H23.7
VESSEL, SEPARATOR, VENTED TO THE VAPOR RECOVERY SYSTEM, HEIGHT: 10 FT; DIAMETER: 6 FT A/N: 278483	D123				E57.1, H23.7
VESSEL, SEPARATOR, VENTED TO THE VAPOR RECOVERY SYSTEM, HEIGHT: 10 FT; DIAMETER: 6 FT A/N: 278483	D124				E57.1, H23.7
VESSEL, SEPARATOR, VENTED TO THE VAPOR RECOVERY SYSTEM, HEIGHT: 10 FT; DIAMETER: 6 FT A/N: 278483	D125				E57.1, H23.7
VESSEL, SEPARATOR, VENTED TO THE VAPOR RECOVERY SYSTEM, HEIGHT: 10 FT; DIAMETER: 6 FT A/N: 278483	D126				E57.1, H23.7

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| <ul style="list-style-type: none"> * (1)(1A)(1B) Denotes RECLAIM emission factor (3) Denotes RECLAIM concentration limit (5)(5A)(5B) Denotes command and control emission limit (7) Denotes NSR applicability limit (9) See App B for Emission Limits | <ul style="list-style-type: none"> (2)(2A)(2B) Denotes RECLAIM emission rate (4) Denotes BACT emission limit (6) Denotes air toxic control rule limit (8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.) (10) See Section J for NESHAP/MACT requirements |
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** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 6 : Island White; Petroleum Production					
VESSEL, SEPARATOR, VENTED TO THE VAPOR RECOVERY SYSTEM, HEIGHT: 10 FT; DIAMETER: 6 FT A/N: 278483	D127				E57.1, H23.7
TANK, CLEAN-UP, FIXED ROOF, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 130 BBL; DIAMETER: 8 FT; HEIGHT: 15 FT A/N: 278483	D128				E57.1, H23.7
TANK, CLEAN-UP, FIXED ROOF, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 130 BBL; DIAMETER: 8 FT; HEIGHT: 15 FT A/N: 278483	D129				E57.1, H23.7
TANK, SKIM OIL, FIXED ROOF, VENTED TO THE VAPOR RECOVERY COMPRESSOR, 600 BBL; DIAMETER: 15 FT; HEIGHT: 20 FT A/N: 278483	D133				E57.1, H23.8
SUMP, CRUDE OIL, COVERED, WIDTH: 8 FT; DEPTH: 3 FT; LENGTH: 5 FT A/N: 278483	D191				H23.7
System 3 : Temporary Petroleum Storage Tank and Control Equipment					
STORAGE TANK, BAKER, TEMPORARY STORAGE, 500 BBL; WIDTH: 10 FT; HEIGHT: 9 FT; LENGTH: 41 FT A/N: INACTIVE	D183	C254			E57.2, E80.4, 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 THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 6 : Island White; Petroleum Production					
STORAGE TANK, BAKER, TEMPORARY STORAGE, 500 BBL; WIDTH: 10 FT; HEIGHT: 9 FT; LENGTH: 41 FT A/N: 306527	D184	C254			E57.2, E80.4, H23.7
CARBON ADSORBER, VENTING TWO TEMPORARY BAKER TANKS, IN SERIES,, 1000 LBS A/N: 483992	C254	D183 D184 C255			D90.3, E153.1, H23.12, K67.2
CARBON ADSORBER, VENTING TWO TEMPORARY BAKER TANKS, IN SERIES,, 1000 LBS A/N: 483992	C255	C254			D90.3, E153.1, H23.12, K67.2
System 4 : Vapor Recovery System					
SCRUBBER, INLET GAS-SCRUBBER, SERVING TANKS & VESSELS AND VENTED TO VAPOR RECOVERY COMPRESSOR, HEIGHT: 8 FT; DIAMETER: 3 FT A/N: 370602	D262				
SCRUBBER, MASTER GAS SCRUBBER, VENTED TO SUBMARINE PIPELINE, HEIGHT: 12 FT; DIAMETER: 5 FT A/N: 370602	D263				
Process 7 : FUGITIVE EMISSIONS					
FUGITIVE EMISSIONS, VALVES A/N: 278483	D134				H23.3
FUGITIVE EMISSIONS, PUMPS A/N: 278483	D135				H23.3

- * (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 THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 7 : FUGITIVE EMISSIONS					
FUGITIVE EMISSIONS, PRV A/N: 278483	D136				H23.3
FUGITIVE EMISSIONS, FLANGES A/N: 278483	D137				H23.3
FUGITIVE EMISSIONS, COMPRESSORS A/N: 483987	D138				H23.3
FUGITIVE EMISSIONS, DRAINS A/N: 278483	D139				H23.4
Process 8 : INTERNAL COMBUSTION					
System 1 : ISLAND CHAFFEE, EMERGENCY ENGINE					
INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, DIESEL FUEL, CATERPILLAR, MODEL 3306T, WITH TURBOCHARGER, 265 BHP WITH A/N: 303896 GENERATOR, 198 KW	D171		NOX: PROCESS UNIT**	NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012,5-6- 2005]	C1.1, D12.2, D12.3, E116.1
System 2 : ISLAND FREEMAN, EMERGENCY ENGINE					
INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, DIESEL FUEL, CATERPILLAR, MODEL 3306T, WITH TURBOCHARGER, 265 BHP WITH A/N: 303899 GENERATOR, 198 KW	D172		NOX: PROCESS UNIT**	NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012,5-6- 2005]	C1.1, D12.2, D12.3, E116.1

* (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 THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 8 : INTERNAL COMBUSTION					
System 3 : ISLAND WHITE, EMERGENCY ENGINE					
INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, DIESEL FUEL, CATERPILLAR, MODEL 3306T, WITH TURBOCHARGER, 265 BHP WITH A/N: 303897 GENERATOR, 198 KW	D173		NOX: PROCESS UNIT**	NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012,5-6- 2005]	C1.1, D12.2, D12.3, E116.1
System 4 : ISLAND GRISSOM, EMERGENCY ENGINE					
INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, DIESEL FUEL, CATERPILLAR, MODEL 3306T, WITH TURBOCHARGER, 265 BHP WITH A/N: 303898 GENERATOR, 198 KW	D174		NOX: PROCESS UNIT**	NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012,5-6- 2005]	C1.1, D12.2, D12.3, E116.1
System 5 : PIER G, EMERGENCY ENGINE					
INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, DIESEL FUEL, KOMATSU, MODEL SA 6D110, WITH AFTERCOOLER, TURBOCHARGER, 180 BHP WITH A/N: 303900 GENERATOR, 134 KW	D175		NOX: PROCESS UNIT**	NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012,5-6- 2005]	C1.1, D12.2, D12.3, E116.1

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| <p>* (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</p> | <p>(2)(2A)(2B) Denotes RECLAIM emission rate
 (4) Denotes BACT emission limit
 (6) Denotes air toxic control rule limit
 (8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (10) See Section J for NESHAP/MACT requirements</p> |
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** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 8 : INTERNAL COMBUSTION					
System 6 : PIER J, EMERGENCY ENGINE					
INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, DIESEL FUEL, KOMATSU, MODEL SA 6D110, WITH AFTERCOOLER, TURBOCHARGER, 180 BHP WITH A/N: 303901 GENERATOR, 134 KW	D176		NOX: PROCESS UNIT**	NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012,5-6- 2005]	C1.1, D12.2, D12.3, E116.1
Process 9 : EMERGENCY VENTING SYSTEM					
VESSEL, EMERGENCY GAS COLLECTION, LENGTH: 22 FT 6 IN; DIAMETER: 9 FT A/N: 304654	D192				E71.3
VESSEL, EMERGENCY GAS COLLECTION, LENGTH: 22 FT 6 IN; DIAMETER: 9 FT A/N: 304655	D193				E71.3
VESSEL, EMERGENCY GAS COLLECTION, LENGTH: 22 FT 6 IN; DIAMETER: 9 FT A/N: 304656	D194				E71.3, H23.11
VESSEL, EMERGENCY GAS COLLECTION, LENGTH: 22 FT 6 IN; DIAMETER: 9 FT A/N: 304657	D195				E71.3

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| <ul style="list-style-type: none"> * (1)(1A)(1B) Denotes RECLAIM emission factor (3) Denotes RECLAIM concentration limit (5)(5A)(5B) Denotes command and control emission limit (7) Denotes NSR applicability limit (9) See App B for Emission Limits | <ul style="list-style-type: none"> (2)(2A)(2B) Denotes RECLAIM emission rate (4) Denotes BACT emission limit (6) Denotes air toxic control rule limit (8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.) (10) See Section J for NESHAP/MACT requirements |
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** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 10 : Rule 219 EXEMPT EQUIPMENT SUBJECT TO SOURCE SPECIFIC RULES					
RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS	E264			VOC: (9) [RULE 1113,11-8-1996;RULE 1113,7-13-2007;RULE 1171,11-7-2003;RULE 1171,2-1-2008]	K67.3
RULE 219 EXEMPT EQUIPMENT, ABRASIVE BLASTING EQUIPMENT, GLOVE-BOX, < = 53 FT3, WITH DUST FILTER	E265			PM: (9) [RULE 1140,2-1-1980;RULE 1140,8-2-1985;RULE 405,2-7-1986]	
RULE 219 EXEMPT EQUIPMENT, EXEMPT HAND WIPING OPERATIONS	E266			VOC: (9) [RULE 1171,11-7-2003;RULE 1171,2-1-2008]	
RULE 219 EXEMPT EQUIPMENT, AIR CONDITIONING UNITS	E267				H23.1
RULE 219 EXEMPT EQUIPMENT, WELL HEADS AND PUMPS, OIL AND GAS	E268			TOC: 500 PPMV (5) [RULE 1148.1,3-5-2004]	
RULE 219 EXEMPT EQUIPMENT, FIRE EXTINGUISHING EQUIPMENT USING HALONS	E269				H23.2
RULE 219 EXEMPT EQUIPMENT, CLEANING EQUIPMENT, SOLVENT CLEANING	E270			VOC: (9) [RULE 1171,11-7-2003;RULE 1171,2-1-2008]	

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

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

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 11 : Various Locations Portabel Water Receiving Tank					
STORAGE TANK, FIXED ROOF, PORTABLE, INJECTION WATER, TEMPORARY WATER RECEIVING TANK, 1343 BBL; DIAMETER: 20 FT; HEIGHT: 24 FT A/N:	D288				E80.5

* (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
THUMS LONG BEACH**

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 THUMS LONG BEACH

SECTION D: DEVICE ID INDEX

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D11	1	1	2
D12	2	1	2
D13	2	1	2
D14	4	1	3
D15	4	1	3
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D40	11	3	1
D43	11	3	1
D44	12	3	1
D45	12	3	2
D46	12	3	2
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FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: DEVICE ID INDEX

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D56	14	3	2
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D59	15	3	2
D60	15	3	2
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D62	18	4	1
D63	17	4	1
D64	17	4	1
D65	17	4	1
D66	19	4	2
D67	19	4	2
D68	19	4	2
D69	19	4	2
D70	19	4	2
D71	20	4	2
D72	20	4	2
D73	20	4	2
D74	20	4	2
D75	20	4	2
D76	21	4	2
D77	21	4	2
D78	16	4	1
D79	16	4	1
D80	17	4	1
D81	21	4	2
D93	23	5	1
D94	23	5	1
D95	23	5	1
D96	23	5	1
D97	23	5	1

**FACILITY PERMIT TO OPERATE
 THUMS LONG BEACH**

SECTION D: DEVICE ID INDEX

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D107	26	5	2
D108	26	5	2
D109	26	5	2
D110	26	5	2
D111	26	5	2
D112	27	5	2
D114	27	5	2
D115	30	6	1
D116	29	6	1
D117	29	6	1
D118	29	6	1
D119	30	6	1
D120	30	6	2
D121	30	6	2
D122	31	6	2
D123	31	6	2
D124	31	6	2
D125	31	6	2
D126	31	6	2
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D128	32	6	2
D129	32	6	2
D130	28	6	1
D131	28	6	1
D132	28	6	1
D133	32	6	2
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**FACILITY PERMIT TO OPERATE
 THUMS LONG BEACH**

SECTION D: DEVICE ID INDEX

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D144	6	1	3
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D152	18	4	1
D153	21	4	2
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D155	20	4	2
D156	19	4	2
D158	11	3	1
D159	11	3	1
D160	13	3	2
D161	13	3	2
D162	13	3	2
D163	14	3	2
D164	24	5	2
D165	24	5	2
D166	25	5	2
D167	25	5	2
D168	31	6	2
D169	31	6	2
D171	34	8	1
D172	34	8	2
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D174	35	8	4
D175	35	8	5
D176	36	8	6
D183	32	6	3
D184	33	6	3
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FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: DEVICE ID INDEX

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FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: DEVICE ID INDEX

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D271	3	1	2
D272	3	1	2
D273	3	1	2
D274	3	1	2
D275	4	1	2
D276	7	1	3
D277	7	1	3
D278	7	1	3
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FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: DEVICE ID INDEX

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FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

FACILITY CONDITIONS

F14.1 The operator shall not purchase any diesel fuel diesel fuel containing sulfur compounds in excess of 15 ppm by weight as supplied by the supplier.

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

DEVICE CONDITIONS

B. Material/Fuel Type Limits

B59.1 The operator shall only use the following material(s) in this device :

all gaseous fuels vented to the flare shall be treated by the sulfur removal system and meet Rule 431.1 total sulfur content, calculated as hydrogen sulfide, requirement of 16 ppm or less

[RULE 431.1, 6-12-1998]

[Devices subject to this condition : C187]

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

Compound	ppm by volume
Total sulfur compounds calculated as H ₂ S greater than	800

[RULE 431.1, 6-12-1998]

[Devices subject to this condition : C32, C34]

C. Throughput or Operating Parameter Limits

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

C1.1 The operator shall limit the operating time to no more than 200 hour(s) in any one year.

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

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

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

[RULE 1110.2, 2-1-2008; ~~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 : D171, D172, D173, D174, D175, D176]

C1.2 The operator shall limit the operating time to no more than 400 hour(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 : C187]

C1.3 The operator shall limit the operating time to no more than 200 hour(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 : C187]

D. Monitoring/Testing Requirements

D12.2 The operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the engine.

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

[Devices subject to this condition : D171, D172, D173, D174, D175, D176]

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

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

[Devices subject to this condition : D171, D172, D173, D174, D175, D176]

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

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

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

[Devices subject to this condition : C187]

- D12.5 The operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the feed gas stream to the flare.

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

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

[Devices subject to this condition : C187]

- D12.6 The operator shall install and maintain a(n) thermocouple to accurately indicate the presence of a flame at the pilot light.

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 : C187]

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

- D90.1 The operator shall periodically monitor the pressure in the absorbers V-2A and V-2B according to the following specifications:

The operator shall monitor once every 24 hours.

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

[Devices subject to this condition : C32, C34]

- D90.2 The operator shall periodically monitor the pressure inside the vessel according to the following specifications:

The operator shall monitor once every 24 hours.

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

[Devices subject to this condition : C185, C186]

- D90.3 The operator shall periodically monitor the VOC concentration at the outlet of the second carbon adsorber according to the following specifications:

The operator shall use a District approved Organic Vapor Analyzer (OVA) to monitor the parameter.

The operator shall monitor once every week.

The VOC concentration at the outlet shall not exceed 20 ppmv

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

[Devices subject to this condition : C198, C203, C206, C208, C209, C254, C255, C286]

E. Equipment Operation/Construction Requirements

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

Requirement number 1: When the equipment is storing 100 percent brinewater

Condition number 57-1

[RULE 463, 5-6-2005]

[Devices subject to this condition : D1, D5, D6]

E57.1 The operator shall vent this equipment to the vapor recovery system whenever this equipment is in operation.

[RULE 1148.1, 3-5-2004; 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 : D1, D2, D3, D4, D5, D6, D11, D12, D13, D14, D15, D16, D18, D19, D20, D21, D23, D24, D26, D39, D40, D43, D45, D46, D49, D50, D51, D52, D53, D54, D55, D56, D57, D58, D59, D60, D61, D63, D64, D65, D66, D67, D68, D69, D70, D71, D72, D73, D74, D75, D76, D77, D78, D79, D80, D81, D93, D95, D96, D97, D98, D99, D100, D101, D102, D103, D104, D105, D106, D107, D108, D109, D110, D111, D112, D115, D116, D117, D118, D119, D120, D121, D122, D123, D124, D125, D126, D127, D128, D129, D130, D131, D132, D133, D144, D147, D150, D153, D154, D155, D156, D158, D159, D160, D161, D162, D163, D164, D165, D166, D167, D168, D169, D188, D210, D211, D212, D213, D214, D216, D222, D244, D249, D271, D272, D273, D274, D275, D287]

E57.2 The operator shall vent this equipment to the carbon adsorption units whenever this equipment is in operation.

[RULE 1148.1, 3-5-2004; RULE 1303(a)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition : D183, D184, D196, D197, D201, D202, D204, D205, D207]

E57.3 The operator shall vent this equipment to the emergency flare whenever an emergency episode occurs.

[RULE 1148.1, 3-5-2004; RULE 1303(a)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition : D1, D2, D3, D4, D11, D12, D13, D14, D15, D16, D18, D19, D20, D21, D26, C36, C37, D144, D188]

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

E71.1 The operator shall only install sealed bellows valves on lines directly serving this equipment if the diameter of the lines is 2 inches or less.

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

[Devices subject to this condition : C185, C186]

E71.2 The operator shall not vent any PRVs serving this equipment to the atmosphere. All PRVs shall be vented to a vapor recovery system.

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

[Devices subject to this condition : C185, C186]

E71.3 The operator shall only use this equipment during periods when the gas compressors serving Long Beach Energy Company are out of service.

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

[Devices subject to this condition : D192, D193, D194, D195]

E71.4 The operator shall only use this equipment during process upsets (downstream and upstream gas flow blockage), emergency (unplanned equipment failures), preventive maintenance (scheduled repair of compressor, pipeline and any related equipment), and power plant outages (gas turbine and related power plant equipment outage due to emergency upsets) and preventive maintenance of key component of power plant equipment.

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

[Devices subject to this condition : C187]

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

E80.1. The operator shall not use this equipment when all of the following equipment are operating:

Device ID: D38 [Back Wash Tank]

Device ID: D43 [Skimming Pond]

Device ID: D44 [Sump]

Device ID: D54 [Clean-up Tank]

Device ID: D55 [Clean-up Tank]

Device ID: D56 [Clean-up Tank]

Device ID: D57 [CLARIFIER]

Device ID: D58 [CLARIFIER]

Device ID: D59 [Surge Tank]

Device ID: D60 [Skim Oil Tank]

Device ID: D147 [Water Receiving Tank]

This condition shall only apply during the maintenance outage of any of the above devices such that either the baker tank or the above devices but not both can operate at any time.

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

[Devices subject to this condition : D204, D205]

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

E80.2 The operator shall not use this equipment when all of the following equipment are operating:

Device ID: D61 [Water Receiving Tank]

Device ID: D62 [Backwash Tank]

Device ID: D75 [Clean-up Tank]

Device ID: D76 [Clean-up Tank]

Device ID: D77 [Clean-up Tank]

Device ID: D78 [CLARIFIER]

Device ID: D79 [CLARIFIER]

Device ID: D80 [Surge Tank]

Device ID: D81 [Skim Oil Tank]

Device ID: D151 [Sump]

Device ID: D152 [Sump]

Device ID: D153 [Skimming Pond]

This condition shall only apply during the maintenance outage of any of the above devices such that either the baker tank or the above devices but not both can operate at any time.

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

[Devices subject to this condition: D201, D202, D207]

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

E80.3 The operator shall not use this equipment when all of the following equipment are operating:

Device ID: D93 [Water Receiving Tank]

Device ID: D94 [Backwash Tank]

Device ID: D99 [Sediment Basin No. 1]

Device ID: D107 [Clean-up Tank]

Device ID: D108 [Clean-up Tank]

Device ID: D109 [CLARIFIER]

Device ID: D110 [CLARIFIER]

Device ID: D111 [Surge Tank]

Device ID: D112 [Skim Oil Tank]

Device ID: D114 [Sump]

This condition shall only apply during the maintenance outage of any of the above devices such that either the baker tank or the above devices but not both can operate at any time.

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

[Devices subject to this condition : D196, D197]

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

E80.4 The operator shall not use this equipment when all of the following equipment are operating:

Device ID: D115 [Receiving Tank]

Device ID: D119 [Sediment Basin No. 1]

Device ID: D128 [Clean-up Tank]

Device ID: D129 [Clean-up Tank]

Device ID: D130 [CLARIFIER]

Device ID: D131 [Clean-up Tank]

Device ID: D132 [Surge Tank]

Device ID: D133 [Skim Oil Tank]

Device ID: D189 [Receiving Tank]

Device ID: D190 [Backwash Tank]

Device ID: D191 [Sump]

This condition shall only apply during the maintenance outage of any of the above devices such that either the baker tank or the above devices but not both can operate at any time.

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

[Devices subject to this condition : D183, D184]

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

E80.5 The operator shall not use this equipment when all of the following equipment are operating:

Device ID: D61 [Water Receiving Tank, Island Chaffee]

Device ID: D147 [Water Receiving Tank, Island Freeman]

Device ID: D93 [Water Receiving Tank, Island Grissom]

This condition shall only apply to ensure that the temporary water receiving tank (device D288) is used only when one of the above devices is not being used (i. e., when one of the above tanks is out of service for repair or inspection).

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

[Devices subject to this condition : D288]

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

[~~RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1470, 6-1-2007~~]

[Devices subject to this condition : D171, D172, D173, D174, D175, D176]

E153.1 The operator shall change over the carbon in the adsorber whenever breakthrough occurs.

For the purpose of this condition, breakthrough shall be defined as less than 95 percent control efficiency.

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

[Devices subject to this condition : C198, C203, C206, C208, C209, C254, C255, C286]

H. Applicable Rules

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

Contaminant	Rule	Rule/Subpart
Refrigerants	District Rule	1415

[RULE 1415, 10-14-1994]

[Devices subject to this condition : E267]

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

Contaminant	Rule	Rule/Subpart
Halon	District Rule	1418

[RULE 1418, 9-10-1999]

[Devices subject to this condition : E269]

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

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1173

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

[Devices subject to this condition : D134, D135, D136, D137, D138]

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

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

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

[Devices subject to this condition : D139]

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

Contaminant	Rule	Rule/Subpart
VOC	District Rule	463
VOC	District Rule	1148.1
VOC	District Rule	1149
VOC	40CFR60, SUBPART	Kb

[RULE 1148.1, 3-5-2004; RULE 1149, 5-2-2008; RULE 463, 5-6-2005; 40CFR 60 Subpart Kb, 10-15-2003]

[Devices subject to this condition : D1, D2, D3, D4]

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

H23.6 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	1148.1
VOC	District Rule	1149

[RULE 1148.1, 3-5-2004; **RULE 1149, 7-14-1995; RULE 463, 5-6-2005**]

[Devices subject to this condition : D5, D6, D60, D147, D287]

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

Contaminant	Rule	Rule/Subpart
VOC	District Rule	464
VOC	District Rule	1148.1
VOC	District Rule	1176

[RULE 1148.1, 3-5-2004; **RULE 1176, 9-13-1996; RULE 464, 12-7-1990**]

[Devices subject to this condition : D11, D12, D13, D14, D15, D16, D18, D19, D20, D21, D22, D23, D24, D26, D38, D39, D40, D43, D44, D45, D46, D49, D50, D51, D52, D53, D54, D55, D56, D57, D58, D59, D61, D62, D63, D64, D65, D66, D67, D68, D69, D70, D71, D72, D73, D74, D75, D76, D77, D78, D79, D80, D81, D93, D94, D95, D96, D97, D98, D99, D100, D101, D102, D103, D104, D105, D106, D107, D108, D109, D110, D111, D112, D114, D115, D116, D117, D118, D119, D120, D121, D122, D123, D124, D125, D126, D127, D128, D129, D130, D131, D132, D144, D150, D151, D152, D153, D154, D155, D156, D158, D159, D160, D161, D162, D163, D164, D165, D166, D167, D168, D169, D183, D184, D190, D191, D196, D197, D201, D202, D204, D205, D207, D210, D211, D212, D213, D214, D216, D222, D244, D249, D271, D272, D273, D274, D275]

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

Contaminant	Rule	Rule/Subpart
VOC	District Rule	463
VOC	District Rule	464
VOC	District Rule	1148.1
VOC	District Rule	1149
VOC	District Rule	1176

[RULE 1148.1, 3-5-2004; RULE 1149, 5-2-2008; **RULE 1176, 9-13-1996; RULE 463, 5-6-2005; RULE 464, 12-7-1990**]

[Devices subject to this condition : D133, D188]

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

Contaminant	Rule	Rule/Subpart
H2S	District Rule	431.1

[**RULE 431.1, 6-12-1998**]

[Devices subject to this condition : C185, C186]

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

H23.10 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1148.1
H2S	District Rule	431.1

[RULE 1148.1, 3-5-2004; RULE 431.1, 6-12-1998]

[Devices subject to this condition : C187]

H23.11 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1148.1
VOC	District Rule	463

[RULE 1148.1, 3-5-2004; RULE 463, 5-6-2005]

[Devices subject to this condition : D194, D199, D200]

H23.12 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1148.1

[RULE 1148.1, 3-5-2004]

[Devices subject to this condition : C198, C203, C206, C208, C209, C254, C255, C286]

K. Record Keeping/Reporting

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

K48.2 The operator shall maintain records in a manner approved by the District, to demonstrate compliance with the following condition number(s):

Condition Number C 1- 2

Condition Number C 1- 3

Condition Number D 12- 4

Condition Number D 12- 5

Condition Number D 12- 6

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

[Devices subject to this condition : C187]

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

Date, time, reason and duration of flaring event

sulfur content and volume of gas flared

explicit description of nature of process upsets, emergency scenarios, reason and duration of preventive maintenance of the specific equipment, power plant's turbine and related equipment's emergency outage, and nature and specific equipment's repair for preventive maintenance.

[**RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 431.1, 6-12-1998]**

[Devices subject to this condition : C187]

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

carbon canister change over date and time

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

[Devices subject to this condition : C198, C203, C206, C208, C209, C254, C255, C286]

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

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

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

[**RULE 1113, 11-8-1996; RULE 1113, 7-13-2007; RULE 1171, 11-7-2003; RULE 1171, 5-1-2009**]

[Devices subject to this condition : E264]

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

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]
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: [204]

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION E: ADMINISTRATIVE CONDITIONS

- a. Three years for a facility not subject to Title V; or
 - b. Five years for a facility subject to Title V.
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, 204]
 - 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 a large NO_x source, compliance with a RECLAIM concentration limit shall be measured over a continuous 60 minutes for that source; [2012]
 - d. For non-combustion sources, compliance with emission limits shall be determined and averaged over a period of 60 minutes; [204]
 - e. 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 (SO₂) and be averaged over 15 consecutive minutes; [407]
 - f. For the purpose of determining compliance with Rule 409, combustion contaminant emission measurements shall be corrected to 12 percent of carbon dioxide (CO₂) at standard conditions and averaged over 15 consecutive minutes. [409]
 - g. For the purpose of determining compliance with Rule 475, combustion contaminant emission measurements shall be corrected to 3 percent of oxygen (O₂) at standard conditions and averaged over 15 consecutive minutes or any other averaging time specified by the Executive Officer. [475]
8. All equipment operating under the RECLAIM program shall comply concurrently with all provisions of AQMD Rules and Regulations, except those listed in Table 1 of Rule 2001 for NO_x RECLAIM sources and Table 2 of Rule 2001 for SO_x RECLAIM sources. Those provisions listed in Tables 1 or 2 shall not apply to NO_x or SO_x emissions after the date the facility has demonstrated compliance with all monitoring and reporting requirements of Rules 2011 or 2012, as applicable. Provisions of the listed AQMD rules in Tables 1 or 2 which have initial implementation dates in 1994 shall not apply to a RECLAIM NO_x or SO_x source, respectively. [2001]

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION E: ADMINISTRATIVE CONDITIONS

9. 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, through-put, 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/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 (no conflict of interest).

10. 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.
 - b. Brief description of the equipment tested.
 - c. Operating conditions under which 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/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.

11. 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]

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION E: ADMINISTRATIVE CONDITIONS

12. 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]

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION F: RECLAIM MONITORING AND SOURCE TESTING REQUIREMENTS

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

I. NO_x Monitoring Conditions

A. The Operator of a NO_x Major Source, as defined in Rule 2012, shall, as applicable:

Not Applicable

B. The Operator of a NO_x Large Source, as defined in Rule 2012, shall, as applicable:

Not Applicable

C. The Operator of a NO_x Process Unit, as defined in Rule 2012, shall, as applicable:

1. Install, maintain, and operate a totalizing fuel meter or any device approved by the Executive Officer to measure quarterly fuel usage or other applicable variables specified in Rule 2012, Table 2012-1, and Rule 2012, Appendix A, Table 4-A. The sharing of totalizing fuel meters may be allowed by the Executive Officer if the fuel meter serves process units which have the same emission factor or emission rate. The sharing of totalizing meter shall not be allowed for process units which are required to comply with an annual heat input limit. [2012]

II. NO_x Source Testing and Tune-up Conditions

1. The operator shall conduct all required NO_x source testing in compliance with an AQMD-approved source test protocol. [2012].
2. The operator shall, as applicable, conduct source tests for every large NO_x source no later than December 31, 1996 and every 3 years thereafter. The source test shall include the determination of NO_x concentration and a relative accuracy audit of the exhaust stack flow determination (e.g. in-stack flow monitor or fuel flow monitor based F-factor calculation). Such source test results shall be submitted per the schedule described by APEP. In lieu of submitting the first source test report, the facility permit holder may submit the results of a source test not more than 3 years old which meets the requirements when conducted. [2012]

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION F: RECLAIM MONITORING AND SOURCE TESTING REQUIREMENTS

3. All NO_x large sources and NO_x process units shall be tuned-up in accordance with the schedule specified in Rule 2012, Appendix A, Chapter 5, Table 5-B. [2012]

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

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:

I. Recordkeeping Requirements for all RECLAIM Sources

1. The operator shall maintain all monitoring data required to be measured or reported pursuant to Rule 2011 and Rule 2012, whichever is applicable. All records shall be made available to AQMD staff upon request and be maintained for at least:
 - a. Three years after each APEP report is submitted to AQMD for a facility not subject to Title V, unless a different time period is required in Rule 2011 or Rule 2012 [2011 & 2012]; or
 - b. Five years after each APEP report is submitted to AQMD for a facility subject to Title V. [3004(a)(4)(E)]
 - c. Notwithstanding the above, all data gathered or computed for intervals of less than 15 minutes shall only be maintained a minimum of 48 hours. [2011 & 2012]
2. The operator shall store on site and make available to the Executive Officer upon request: records used to determine emissions, maintenance records, sources test reports, relative accuracy test audit reports, relative accuracy audit reports and fuel meter calibration records. [2011 & 2012]

II. Reporting Requirements for all RECLAIM Sources

1. The operator shall submit a quarterly certification of emissions including the facility's total NO_x or SO_x emissions, whichever is applicable, for the quarter within 30 days after the end of the first three quarters and 60 days after the end of the fourth quarter of a compliance year. [2011 & 2012]

NO_x Reporting Requirements

- A. The Operator of a NO_x Major Source, as defined in Rule 2012, shall, as applicable:

Not Applicable

**FACILITY PERMIT TO OPERATE
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**SECTION G: RECORDKEEPING AND REPORTING REQUIREMENTS FOR
RECLAIM SOURCES**

B. The Operator of a NO_x Large Source, as defined in Rule 2012, shall:

Not Applicable

C. The Operator of a NO_x Process Unit, as defined in Rule 2012, shall:

1. Electronically report the calculated quarterly NO_x emissions for each NO_x process unit. The Operator shall comply with this requirement within 12 months of the date of entry to the RECLAIM Program. [2012]

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SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1 : Pier J-2,4,6; Petroleum Production					
System 2 : Oil/Water/Gas Separation					
VESSEL, KO-004, FREE WATER KNOCKOUT, CONNECTED TO VAPOR RECOVERY COMPRESSOR, LENGTH: 60 FT; DIAMETER: 14 FT A/N:	D289				E57.1, E57.3
VESSEL, KO-005, FREE WATER KNOCKOUT, CONNECTED TO VAPOR RECOVERY COMPRESSOR, HEIGHT: 60 FT; DIAMETER: 14 FT A/N:	D290				E57.1, E57.3
OIL WATER SEPARATOR, DPT-001, CONNECTED TO VAPOR RECOVERY CO,MPRESSOR, LENGTH: 60 FT; DIAMETER: 12 FT A/N:	D291				E57.1, E57.3
OIL WATER SEPARATOR, DPT-001, CONNECTED TO VAPOR RECOVERY CO,MPRESSOR, HEIGHT: 60 FT; DIAMETER: 12 FT A/N:	D292				E57.1, E57.3

* (1)(1A)(1B) Denotes RECLAIM emission factor
 (2)(2A)(2B) Denotes RECLAIM emission rate
 (3) Denotes RECLAIM concentration limit
 (4) Denotes BACT emission limit
 (5)(5A)(5B) Denotes commarid 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
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SECTION H: DEVICE ID INDEX

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

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SECTION H: DEVICE ID INDEX

Device Index For Section H			
Device ID	Section H Page No.	Process	System
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D290	1	1	2
D291	1	1	2
D292	1	1	2

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SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

FACILITY CONDITIONS

F14.1 The operator shall not purchase any diesel fuel diesel fuel containing sulfur compounds in excess of 15 ppm by weight as supplied by the supplier.

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

DEVICE CONDITIONS

E. Equipment Operation/Construction Requirements

E57.1 The operator shall vent this equipment to the vapor recovery system whenever this equipment is in operation.

[**RULE 1148.1, 3-5-2004**; **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 : D289, D290, D291, D292]

E57.3 The operator shall vent this equipment to the emergency flare whenever an emergency episode occurs.

[**RULE 1148.1, 3-5-2004**; **RULE 1303(a)-BACT, 5-10-1996**; **RULE 1303(a)(1)-BACT, 12-6-2002**]

[Devices subject to this condition : D289, D290, D291, D292]

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

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.

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SECTION J: AIR TOXICS

NOT APPLICABLE

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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)]

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.

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION K: TITLE V Administration

- (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)]

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)]

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION K: TITLE V Administration

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)]
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

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION K: TITLE V Administration

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 THUMS LONG BEACH

SECTION K: TITLE V Administration

EMERGENCY PROVISIONS

17. An emergency¹ constitutes an affirmative defense to an action brought for non-compliance 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]

¹ "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.

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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.
 - (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.

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION K: TITLE V Administration

- (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;
 - (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)]

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION K: TITLE V Administration

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 Title V application file. [3004(a)(4)]

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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.

RULE SOURCE	Adopted/Amended Date	FEDERAL Enforceability
RULE 1110.2	2-1-2008	Non federally enforceable
RULE 1113	11-8-1996	Federally enforceable
RULE 1113	7-13-2007	Non federally enforceable
RULE 1140	2-1-1980	Federally enforceable
RULE 1140	8-2-1985	Non federally enforceable
RULE 1148.1	3-5-2004	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	2-1-2008	Non federally enforceable
RULE 1171	5-1-2009	Non federally enforceable
RULE 1173	12-6-2002	Non federally enforceable
RULE 1173	5-13-1994	Federally enforceable
RULE 1176	9-13-1996	Federally enforceable
RULE 118	12-7-1995	Non federally enforceable
RULE 1303(a)(1)-BACT	12-6-2002	Non federally enforceable
RULE 1303(a)(1)-BACT	5-10-1996	Federally enforceable
RULE 1303(a)-BACT	5-10-1996	Federally enforceable
RULE 1303(b)(2)-Offset	12-6-2002	Non federally enforceable
RULE 1303(b)(2)-Offset	5-10-1996	Federally enforceable
RULE 1304(a)-Modeling and Offset Exemption	6-14-1996	Federally enforceable
RULE 1415	10-14-1994	Non federally enforceable
RULE 1418	9-10-1999	Non federally enforceable
RULE 1470	6-1-2007	Non federally enforceable
RULE 2012	5-6-2005	Federally enforceable
RULE 204	10-8-1993	Federally enforceable
RULE 217	1-5-1990	Federally enforceable
RULE 219	9-4-1981	Federally enforceable
RULE 3002	11-14-1997	Federally enforceable

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

SECTION K: TITLE V Administration

RULE SOURCE	Adopted/Amended Date	FEDERAL Enforceability
RULE 3003	11-14-1997	Federally enforceable
RULE 3004(a)(4)-Periodic Monitoring	12-12-1997	Federally enforceable
RULE 3005	11-14-1997	Federally enforceable
RULE 3007	10-8-1993	Federally enforceable
RULE 304	1-14-1982	Non federally enforceable
RULE 402	5-7-1976	Non 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 431.1	6-12-1998	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 464	12-7-1990	Federally enforceable
40CFR 60 Subpart Kb	10-15-2003	Federally enforceable
RULE 701	6-13-1997	Federally enforceable

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

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

1. INTERNAL COMBUSTION ENGINE, DIESEL
2. PRODUCTION RIGG, DIESEL
3. FRACTURING EQUIPMENT, DIESEL
4. MISC. PUMPING EQUIPMENT, DIESEL
5. MISC. WELL CONTROL EQUIP., DIESEL

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

APPENDIX B: RULE EMISSION LIMITS [RULE 1113 11-8-1996]

- (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						
Industrial Maintenance							

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

APPENDIX B: RULE EMISSION LIMITS [RULE 1113 11-8-1996]

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

**FACILITY PERMIT TO OPERATE
THUMS LONG BEACH**

**APPENDIX B: RULE EMISSION LIMITS
[RULE 1113 11-8-1996]**

TABLE OF STANDARDS (cont.)

VOC LIMITS

Grams of VOC Per Liter of Material

COATING	Limit
Low-Solids Coating	120

FACILITY PERMIT TO OPERATE

THUMS LONG BEACH

APPENDIX B: RULE EMISSION LIMITS **[RULE 1113 7-13-2007]**

- (1) Except as provided in paragraphs (c)(2), (c)(3), (c)(4), and specified coatings averaged under (c)(6), no person shall supply, sell, offer for sale, manufacture, blend, or repackage any architectural coating for use in the District 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, and no person shall apply or solicit the application of any architectural coating within the District that exceeds 250 grams of VOC per liter of coating as calculated in this paragraph.
- (2) Except as provided in paragraphs (c)(3), (c)(4), and designated coatings averaged under (c)(6), no person shall supply, sell, offer for sale, 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, and no person shall apply or solicit the application of any architectural coating within the District that exceeds the VOC limit as specified in this paragraph. No person shall apply or solicit the application within the District of any industrial maintenance coatings, except anti-graffiti coatings, for residential use or for use in areas such as office space and meeting rooms of industrial, commercial or institutional facilities not exposed to such extreme environmental conditions described in the definition of industrial maintenance coatings; or of any rust-preventative coating for industrial use, unless such a rust preventative coating complies with the Industrial Maintenance Coating VOC limit specified in the Table of Standards.

FACILITY PERMIT TO OPERATE
THUMS LONG BEACH

APPENDIX B: RULE EMISSION LIMITS
[RULE 1113 7-13-2007]

TABLE OF STANDARDS
VOC LIMITS

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

COATING CATEGORY	Ceiling Limit*	Current Limit	Effective Date					
			1/1/03	1/1/04	1/1/05	7/1/06	7/1/07	7/1/08
Bond Breakers	350							
Clear Wood Finishes	350					275		
Varnish	350					275		
Sanding Sealers	350					275		
Lacquer	680	550			275			
Clear Brushing Lacquer	680				275			
Concrete-Curing Compounds	350						100	
Concrete-Curing Compounds For Roadways and Bridges**	350							
Dry-Fog Coatings	400						150	
Fire-Proofing Exterior Coatings	450	350						
Fire-Retardant Coatings***								
Clear	650							
Pigmented	350							
Flats	250	100						50
Floor Coatings	420		100			50		
Graphic Arts (Sign) Coatings	500							
Industrial Maintenance (IM) Coatings	420			250		100		
High Temperature IM Coatings			420					
Zinc-Rich IM Primers	420		340			100		
Japans/Faux Finishing Coatings	700	350						
Magnesite Cement Coatings	600	450						
Mastic Coatings	300							
Metallic Pigmented Coatings	500							
Multi-Color Coatings	420	250						
Nonflat Coatings	250		150			50		
Nonflat High Gloss	250		150				50	

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

APPENDIX B: RULE EMISSION LIMITS [RULE 1113 7-13-2007]

COATING CATEGORY	Ceiling Limit*	Current Limit	Effective Date					
			1/1/03	1/1/04	1/1/05	7/1/06	7/1/07	7/1/08
Pigmented Lacquer	680	550			275			
Pre-Treatment Wash Primers	780		420					
Primers, Sealers, and Undercoaters	350		200			100		
Quick-Dry Enamels	400		250			150	50	
Quick-Dry Primers, Sealers, and Undercoaters	350		200			100		
Recycled Coatings			250					
Roof Coatings	300		250		50			
Roof Coatings, Aluminum	500				100			
Roof Primers, Bituminous	350		350					
Rust Preventative Coatings	420		400			100		
Shellac								
Clear	730							
Pigmented	550							
Specialty Primers	350					250	100	
Stains	350		250				100	
Stains, Interior	250							
Swimming Pool Coatings								
Repair	650		340					
Other	340							
Traffic Coatings	250	150					100	
Waterproofing Sealers	400		250			100		
Waterproofing	400					100		
Concrete/Masonry Sealers								
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.

** Does not include compounds used for curbs and gutters, sidewalks, islands, driveways and other miscellaneous concrete areas.

*** The Fire-Retardant Coating category will be eliminated on January 1, 2007 and subsumed by the coating category for which they are formulated.

**FACILITY PERMIT TO OPERATE
THUMS LONG BEACH**

**APPENDIX B: RULE EMISSION LIMITS
[RULE 1113 7-13-2007]**

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

Grams of VOC Per Liter of Material

COATING	Limit
Low-Solids Coating	120

FACILITY PERMIT TO OPERATE

THUMS LONG BEACH

APPENDIX B: RULE EMISSION LIMITS **[RULE 1140 2-1-1980]**

- (1) The operator shall not, if he complies with an applicable performance standard in section (b)(4) of Rule 1140, discharge into the atmosphere from any abrasive blasting 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 as No. 2 on the Ringelmann Chart, as published by the United States Bureau of Mines,
or
 - (B) Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in (1)(A).
- (2) The operator shall not, if he is not complying with an applicable performance standard in section (b)(4) of Rule 1140, discharge into the atmosphere from any abrasive blasting 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 as No. 1 on the Ringelmann Chart, as published by the United States Bureau of Mines,
or
 - (B) Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in (2)(A).

FACILITY PERMIT TO OPERATE

THUMS LONG BEACH

APPENDIX B: RULE EMISSION LIMITS **[RULE 1140 8-2-1985]**

- (1) The operator shall not, if he complies with an applicable performance standard in section (b)(4) of Rule 1140, discharge into the atmosphere from any abrasive blasting 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 as No. 2 on the Ringelmann Chart, as published by the United States Bureau of Mines, or
 - (B) Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in (1)(A).
- (2) The operator shall not, if he is not complying with an applicable performance standard in section (b)(4) of Rule 1140, discharge into the atmosphere from any abrasive blasting 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 as No. 1 on the Ringelmann Chart, as published by the United States Bureau of Mines, or
 - (B) Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in (2)(A).

**FACILITY PERMIT TO OPERATE
 THUMS LONG BEACH**

**APPENDIX B: RULE EMISSION LIMITS
 [RULE 1171 11-7-2003]**

(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)
(iii) Medical Devices & Pharmaceuticals	
(A) Tools, Equipment, & Machinery	800 (6.7)
(B) General Work Surfaces	600 (5.0)

FACILITY PERMIT TO OPERATE
THUMS LONG BEACH

APPENDIX B: RULE EMISSION LIMITS
[RULE 1171 11-7-2003]

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS
	VOC g/l (lb/gal)
(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	
(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)

FACILITY PERMIT TO OPERATE
THUMS LONG BEACH

APPENDIX B: RULE EMISSION LIMITS
[RULE 1171 11-7-2003]

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS
	VOC g/l (lb/gal)
(vii) Specialty Flexographic Printing	600 (5.0)
(E) Cleaning of Polyester Resin Application Equipment	25 (0.21)

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

APPENDIX B: RULE EMISSION LIMITS [RULE 1171 2-1-2008]

(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:

	CURRENT LIMITS*	EFFECTIVE 1/1/2008*	EFFECTIVE 1/1/2009
SOLVENT CLEANING ACTIVITY	VOC g/l (lb/gal)	VOC g/l (lb/gal)	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	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
THUMS LONG BEACH

APPENDIX B: RULE EMISSION LIMITS
[RULE 1171 2-1-2008]

	CURRENT LIMITS*	EFFECTIVE 1/1/2008*	EFFECTIVE 1/1/2009
SOLVENT CLEANING ACTIVITY (cont.)	VOC g/l (lb/gal)	VOC g/l (lb/gal)	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	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			
(I) Newsprint	100 (0.83)		

FACILITY PERMIT TO OPERATE
THUMS LONG BEACH

APPENDIX B: RULE EMISSION LIMITS
[RULE 1171 2-1-2008]

	CURRENT LIMITS*	EFFECTIVE 1/1/2008*	EFFECTIVE 1/1/2009
SOLVENT CLEANING ACTIVITY (cont.)	VOC g/l (lb/gal)	VOC g/l (lb/gal)	VOC g/l (lb/gal)
(II) Other Substrates	500 (4.2)	100 (0.83)	
(B) Removable Press Components	25 (0.21)		
(v) Screen Printing	500 (4.2)	100 (0.83)	
(vi) Ultraviolet Ink/ Electron Beam Ink Application Equipment (except screen printing)	650 (5.4)	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 THUMS LONG BEACH

APPENDIX B: RULE EMISSION LIMITS [RULE 405 2-7-1986]

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
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

FACILITY PERMIT TO OPERATE THUMS LONG BEACH

APPENDIX B: RULE EMISSION LIMITS [RULE 405 2-7-1986]

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
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