

FACILITY PERMIT TO OPERATE

**LONG BEACH GENERATION LLC
2665 W SEASIDE BLVD
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 _____
Carol Coy
Deputy Executive Officer
Engineering & Compliance

FACILITY PERMIT TO OPERATE LONG BEACH GENERATION LLC

TABLE OF CONTENTS

Section	Description	Revision #	Date Issued
A	Facility Information	DRAFT	02/23/2007
B	RECLAIM Annual Emission Allocation	DRAFT	02/23/2007
C	Facility Plot Plan	TO BE DEVELOPED	
D	Facility Description and Equipment Specific Conditions	DRAFT	02/23/2007
E	Administrative Conditions	DRAFT	02/23/2007
F	RECLAIM Monitoring and Source Testing Requirements	DRAFT	02/23/2007
G	Recordkeeping and Reporting Requirements for RECLAIM Sources	DRAFT	02/23/2007
H	Permit To Construct and Temporary Permit to Operate	DRAFT	02/23/2007
I	Compliance Plans & Schedules	DRAFT	02/23/2007
J	Air Toxics	DRAFT	02/23/2007
K	Title V Administration	DRAFT	02/23/2007
Appendix			
A	NOx and SOx Emitting Equipment Exempt From Written Permit Pursuant to Rule 219	DRAFT	02/23/2007
B	Rule Emission Limits	DRAFT	02/23/2007

FACILITY PERMIT TO OPERATE LONG BEACH GENERATION LLC

SECTION A: FACILITY INFORMATION

LEGAL OWNER &/OR OPERATOR: LONG BEACH GENERATION LLC

LEGAL OPERATOR (if different than owner):

EQUIPMENT LOCATION: 2665 W SEASIDE BLVD
LONG BEACH, CA 90802

MAILING ADDRESS: 301 VISTA DEL MAR
EL SEGUNDO, CA 90245

RESPONSIBLE OFFICIAL: GREGORY HUGHES/ ROBERT REA

TITLE: PLANT MANAGER/OPERATIONS MANAGER

TELEPHONE NUMBER: (760) 268-4003

CONTACT PERSON: STEVE ODEBASHIAN

TITLE: ENVIRONMENTAL ENGINEER

TELEPHONE NUMBER: (310) 615-6331

TITLE V PERMIT ISSUED: May 09, 2000

TITLE V PERMIT EXPIRATION DATE: May 08, 2005

TITLE V	RECLAIM
YES	NOx: YES SOx: NO CYCLE: 2 ZONE: COASTAL

FACILITY PERMIT TO OPERATE LONG BEACH GENERATION LLC

SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION

The annual allocation of NO_x RECLAIM Trading Credits (RTCs) for this facility is calculated pursuant to Rule 2002. Total NO_x 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	NO _x RTC Initially Allocated	NO _x RTC ¹ Holding as of 02/23/07 (pounds)	Non-Tradable ² Non-Usable RTCs (pounds)
Begin (month/year)	End				
7/2002	6 /2003	Coastal	452913	4343	0
1/2003	12/2003	Coastal	0	5047	0
7/2002	6 /2003	Inland	0	0	0
7/2003	6 /2004	Coastal	432301	395635	0
1/2004	12/2004	Coastal	0	0	0
7/2003	6 /2004	Inland	0	0	0
7/2004	6 /2005	Coastal	432301	345046	0
1/2005	12/2005	Coastal	0	0	0
7/2004	6 /2005	Inland	0	30758	0
7/2005	6 /2006	Coastal	432301	402301	0
1/2006	12/2006	Coastal	0	0	0
7/2005	6 /2006	Inland	0	30000	0
7/2006	6 /2007	Coastal	432301	432301	0
7/2006	6 /2007	Inland	0	0	0
7/2007	6 /2008	Coastal	432301	381722	0
7/2007	6 /2008	Inland	0	2435	0
7/2008	6 /2009	Coastal	432301	316345	11672

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 LONG BEACH GENERATION LLC

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 02/23/07 (pounds)	Non-Tradable ² Non-Usable RTCs (pounds)
Begin (month/year)	End				
7/2008	6 /2009	Inland	0	2361	74
7/2009	6 /2010	Coastal	432301	358378	23344
7/2009	6 /2010	Inland	0	2286	149
7/2010	6 /2011	Coastal	432301	346705	35016
7/2010	6 /2011	Inland	0	2212	223
7/2011	6 /2012	Coastal	432301	335033	46689
7/2011	6 /2012	Inland	0	2137	298
7/2012	6 /2013	Coastal	432301	335033	46689
7/2012	6 /2013	Inland	0	2137	298
7/2013	6 /2014	Coastal	432301	335033	46689
7/2013	6 /2014	Inland	0	2137	298
7/2014	6 /2015	Coastal	432301	335033	46689
7/2014	6 /2015	Inland	0	2137	298
7/2015	6 /2016	Coastal	432301	335033	46689
7/2015	6 /2016	Inland	0	2137	298
7/2016	6 /2017	Coastal	432301	335033	46689
7/2016	6 /2017	Inland	0	2137	298

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 LONG BEACH GENERATION LLC

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 02/23/07 (pounds)	Non-Tradable ² Non-Usable RTCs (pounds)
Begin (month/year)	End				
7/2017	6 /2018	Coastal	432301	335033	46689
7/2017	6 /2018	Inland	0	2137	298
7/2018	6 /2019	Coastal	432301	335033	46689
7/2018	6 /2019	Inland	0	2137	298
7/2019	6 /2020	Coastal	432301	335033	46689
7/2019	6 /2020	Inland	0	2137	298

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 LONG BEACH GENERATION LLC

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)
7/1994	6 /1995	Coastal	494137	636496

**FACILITY PERMIT TO OPERATE
LONG BEACH GENERATION LLC**

SECTION C: FACILITY PLOT PLAN

(TO BE DEVELOPED)

FACILITY PERMIT TO OPERATE LONG BEACH GENERATION LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 9 : R219 Exempt Equipment Subject to a Source-Specific Rule					
RULE 219 EXEMPT EQUIPMENT, ABRASIVE BLASTING EQUIPMENT, GLOVE-BOX, <= 53 FT3, WITH DUST FILTER	E117			PM: (9) [RULE 1140,2-1-1980;RULE 1140,8-2-1985;RULE 404,2-7-1986;RULE 405,2-7-1986]	D322.1, E102.1, K67.2
RULE 219 EXEMPT EQUIPMENT, OIL WATER SEPARATORS, GRAVITY-TYPE, < 45 FT2 AIR/LIQUID INTERFACIAL AREA	E118				H23.1
RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS	E119			ROG: (9) [RULE 1113,11-8-1996;RULE 1113,7-9-2004;RULE 1171,11-7-2003]	K67.1

* (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
LONG BEACH GENERATION LLC**

SECTION D: DEVICE ID INDEX

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

FACILITY PERMIT TO OPERATE LONG BEACH GENERATION LLC

SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
E117	1	9	0
E118	1	9	0
E119	1	9	0

FACILITY PERMIT TO OPERATE LONG BEACH GENERATION LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

FACILITY CONDITIONS

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

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

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

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

F16.1 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Purchase records of fuel oil and sulfur content of the fuel

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

DEVICE CONDITIONS

D. Monitoring/Testing Requirements

D322.1 The operator shall perform annual inspection of the equipment and filter media for leaks, broken or torn filter media, and improperly installed filter media.

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

[Devices subject to this condition : E117]

E. Equipment Operation/Construction Requirements

FACILITY PERMIT TO OPERATE LONG BEACH GENERATION LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

E102.1 The operator shall discharge dust collected in this equipment only into closed containers.

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

[Devices subject to this condition : E117]

H. Applicable Rules

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

Contaminant	Rule	Rule/Subpart
VOC	District Rule	464

[RULE 464, 12-7-1990]

[Devices subject to this condition : E118]

K. Record Keeping/Reporting

FACILITY PERMIT TO OPERATE LONG BEACH GENERATION LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

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

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

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

[Devices subject to this condition : E119]

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

the name of the person performing the inspection and/or maintenance of the filter media

the date, time and results of the inspection

the date, time and description of any maintenance or repairs resulting from the inspection

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

[Devices subject to this condition : E117]

FACILITY PERMIT TO OPERATE LONG BEACH GENERATION LLC

SECTION E: ADMINISTRATIVE CONDITIONS

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

1. The permit shall remain effective unless this permit is suspended, revoked, modified, reissued, denied, or it is expired for nonpayment of permit processing or annual operating fees. [201, 203, 209, 301]
 - a. The permit must be renewed annually by paying annual operating fees, and the permit shall expire if annual operating fees are not paid pursuant to requirements of Rule 301(d). [301(d)]
 - b. The Permit to Construct listed in Section H shall expire one year from the Permit to Construct issuance date, unless a Permit to Construct extension has been granted by the Executive Officer or unless the equipment has been constructed and the operator has notified the Executive Officer prior to the operation of the equipment, in which case the Permit to Construct serves as a temporary Permit to Operate. [202, 205]
 - c. The Title V permit shall expire as specified under Section K of the Title V permit. The permit expiration date of the Title V facility permit does not supercede the requirements of Rule 205. [205, 3004]
2. The operator shall maintain all equipment in such a manner that ensures proper operation of the equipment. [204]
3. This permit does not authorize the emissions of air contaminants in excess of those allowed by Division 26 of the Health and Safety Code of the State of California or the Rules and Regulations of the AQMD. This permit cannot be considered as permission to violate existing laws, ordinances, regulations or statutes of other governmental agencies. [204]
4. The operator shall not use equipment identified in this facility permit as being connected to air pollution control equipment unless they are so vented to the identified air pollution control equipment which is in full use and which has been included in this permit. [204]
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 LONG BEACH GENERATION LLC

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 compound 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 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 Regulation, 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 LONG BEACH GENERATION LLC

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 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. 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 LONG BEACH GENERATION LLC

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 LONG BEACH GENERATION LLC

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. NOx Monitoring Conditions

- A. The Operator of a NOx Major Source, as defined in Rule 2012, shall, as applicable:
 1. Install, maintain, and operate an AQMD certified direct or time-shared monitoring device or an approved alternative monitoring device for each major NOx source to continuously measure the concentration of NOx emissions and all other applicable variables specified in Rule 2012, Table 2012-1 and Rule 2012, Appendix A, Table 2-A to determine the NOx emissions rate from each source. The time-sharing of CEMS among NOx sources may be allowed by the Executive Officer in accordance with the requirements for time sharing specified in Appendix A. [2012]
 2. Install, maintain, and operate a totalizing fuel meter approved by the Executive Officer for each major source. [2012]
 3. If the facility is operating existing CEMS and fuel meters, continue to follow recording and reporting procedures required by AQMD Rules and Regulations in effect prior to October 15, 1993 until the CEMS is certified pursuant to Rule 2012. [2012]
 4. Use valid data collected by an AQMD certified or provisionally certified CEMS in proper operation that meets all the requirements of Appendix A of Rule 2012, unless final certification of the CEMS is denied, to determine mass emissions for all purposes, including, but not limited to, determining: [2012]
 - a. compliance with the annual Allocation;
 - b. excess emissions;
 - c. the amount of penalties; and
 - d. fees.
 5. Follow missing data procedures as specified in Rule 2012 Appendix A whenever valid data is not available or collected to determine mass emissions for all purposes, including, but not limited to, determining: [2012]
 - a. compliance with the annual Allocation;
 - b. excess emissions;
 - c. the amount of penalties; and
 - d. fees.

FACILITY PERMIT TO OPERATE LONG BEACH GENERATION LLC

SECTION F: RECLAIM MONITORING AND SOURCE TESTING REQUIREMENTS

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

Not Applicable

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

Not Applicable

II. NOx Source Testing and Tune-up Conditions

1. The operator shall conduct all required NOx source testing in compliance with an AQMD-approved source test protocol. [2012]
2. The operator shall, as applicable, conduct source tests for every large NOx source no later than June 30, 1997 and every 3 years thereafter. The source test shall include the determination of NOx 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]
3. All NOx large sources and NOx 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 LONG BEACH GENERATION LLC

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:
 1. No later than 12 months after entry into the RECLAIM program or after the initial operation of a new major source, whichever is later, install, maintain, and operate a reporting device to electronically report everyday to the AQMD central station for each major NO_x source, the total daily mass emissions of NO_x and daily status codes. Such data

FACILITY PERMIT TO OPERATE LONG BEACH GENERATION LLC

SECTION G: RECORDKEEPING AND REPORTING REQUIREMENTS FOR RECLAIM SOURCES

shall be transmitted by 5:00 p.m. of the following day. If the facility experiences a power, computer, or other system failure that prevents the submittal of the daily report, the Facility Permit holder shall be granted 24 hours extension to submit the report. [2012]

2. Calculate NOx emissions pursuant to missing data procedures set forth in Appendix A, Chapter 2 of Rule 2012 if the Facility Permit holder fails to meet the deadline for submitting the daily report. [2012]
 3. Submit an electronic report within 15 days following the end of each month totaling NOX emissions from all major NOx sources during the month. [2012]
 4. For those facilities with existing CEMS and fuel meters as of October 15, 1993, continue to follow recording and reporting procedures required by AQMD Rules and Regulations in effect until the CEMS is certified pursuant to Rule 2011 and/or Rule 2012, as applicable. [2012]
- B. The Operator of a NOx Large Source, as defined in Rule 2012, shall:
Not Applicable
- C. The Operator of a NOx Process Unit, as defined in Rule 2012, shall:
Not Applicable

FACILITY PERMIT TO OPERATE LONG BEACH GENERATION LLC

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 2 : GAS TURBINES, POWER GENERATION					
GAS TURBINE, UNIT NO. 1, NATURAL GAS, ALSTOM, MODEL 11D5, SIMPLE CYCLE, 871.3 MMBTU/HR AT 85 DEGREES F, WITH WATER INJECTION WITH A/N:	D4	C120	NOX: MAJOR SOURCE**	<p>CO: 2.9 PPMV NATURAL GAS (5A) [RULE 1303(b)(2)-Offset,5-10-1996;RULE 1303(b)(2)-Offset,12-6-2002] ; CO: 6 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT,5-10-1996</p> <p>RULE 1303(a)(1)-BACT,12-6-2002] ; CO: 2000 PPMV (5) [RULE 407,4-2-1982] ; NOX: 124.49 LBS/MMSCF NATURAL GAS (1) [RULE 2012,5-6-2005]</p> <p>NOX: 20.22 LBS/MMSCF NATURAL GAS (1A) [RULE 2012,5-6-2005] ; NOX: 3.5 PPMV NATURAL GAS (4) [RULE 2005,5-6-2005] ; NOX: 15 PPMV NATURAL GAS (8) [40CFR 60 Subpart KKKK,7-6-2006]</p> <p>PM: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981] ; PM: 0.01 GRAINS/SCF (5A) [RULE 475,10-8-1976;RULE 475,8-7-1978]</p> <p>PM: 11 LBS/HR (5B) [RULE 475,10-8-1976;RULE 475,8-7-1978] ; SO2: (9) [40CFR 72 - Acid Rain Provisions,11-24-1997]</p>	<p>A63.1, A63.2, A63.3, A99.1, A99.2, A99.3, A99.4, A99.5, A99.6, A99.7, A195.1, A195.2, A195.3,</p> <p>A195.5, A195.6, A327.1, C1.1, D12.1, D29.1, D29.2, D29.3, D82.1, D82.2, I296.1, K40.1, K67.3</p>

* (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 LONG BEACH GENERATION LLC

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 2 : GAS TURBINES, POWER GENERATION					
GENERATOR, 65 MW				SOX: 0.06 LBS/MMSCF NATURAL GAS (8) [40CFR 60 Subpart KKKK,7-6-2006] ; VOC: 2 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT,5-10- 1996 RULE 1303(a)(1)-BACT,12-6- 2002] ; VOC: 1.6 PPMV NATURAL GAS (5) [RULE 1303(b)(2)-Offset,5-10-1996;RULE 1303(b)(2)-Offset,12-6-2002]	
CO OXIDATION CATALYST, UNIT NO. 1, BASF, MODEL 2B1071, WITH 130 CUBIC FEET OF TOTAL CATALYST VOLUME A/N:	C120	D4 C124			
SELECTIVE CATALYTIC REDUCTION, UNIT NO. 1, CORMETECH CM 21HT, WITH 2,750 CUBIC FEET OF TOTAL CATALYST VOLUME, WIDTH: 4 FT 7 IN; HEIGHT: 40 FT 3 IN; LENGTH: 24 FT 3 IN WITH A/N: AMMONIA INJECTION, GRID	C124	C120 S132		NH3: 5 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT,5-10-1996;RULE 1303(a)(1)-BACT,12-6-2002]	A195.4, D12.2, D12.3, D12.4, E179.1, E179.2

* (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 LONG BEACH GENERATION LLC

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 2 : GAS TURBINES, POWER GENERATION					
STACK, NO. 1, COMMON TO CTG NO. 1 AND CTG NO. 2, HEIGHT: 221 FT; DIAMETER: 18 FT 11 IN A/N:	S132	C124 C126			
GAS TURBINE, UNIT NO. 2, NATURAL GAS, ALSTOM, MODEL 11D5, SIMPLE CYCLE, 871.3 MMBTU/HR AT 85 DEGREES F, WITH WATER INJECTION WITH A/N:	D5	C121	NOX: MAJOR SOURCE**	<p>CO: 2.9 PPMV NATURAL GAS (5A) [RULE 1303(b)(2)-Offset,5-10-1996;RULE 1303(b)(2)-Offset,12-6-2002] ; CO: 6 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT,5-10-1996</p> <p>RULE 1303(a)(1)-BACT,12-6-2002] ; CO: 2000 PPMV (5) [RULE 407,4-2-1982] ; NOX: 124.49 LBS/MMSCF NATURAL GAS (1) [RULE 2012,5-6-2005]</p> <p>NOX: 20.22 LBS/MMSCF NATURAL GAS (1A) [RULE 2012,5-6-2005] ; NOX: 3.5 PPMV NATURAL GAS (4) [RULE 2005,5-6-2005] ; NOX: 15 PPMV NATURAL GAS (8) [40CFR 60 Subpart KKKK,7-6-2006]</p> <p>PM: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981] ; PM: 0.01 GRAINS/SCF (5A) [RULE 475,10-8-1976;RULE 475,8-7-1978]</p>	<p>A63.1, A63.2, A63.3, A99.1, A99.2, A99.3, A99.4, A99.5, A99.6, A99.7, A195.1, A195.2, A195.3,</p> <p>A195.5, A195.6, A327.1, C1.1, D12.1, D29.1, D29.2, D29.3, D82.1, D82.2, I296.1, K40.1, K67.3</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

(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 LONG BEACH GENERATION LLC

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 2 : GAS TURBINES, POWER GENERATION					
GENERATOR, 65 MW				PM: 11 LBS/HR (5B) [RULE 475,10-8-1976;RULE 475,8-7-1978] ; SO2: (9) [40CFR 72 - Acid Rain Provisions,11-24-1997] SOX: 0.06 LBS/MMSCF NATURAL GAS (8) [40CFR 60 Subpart KKKK,7-6-2006] ; VOC: 2 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT,5-10-1996 RULE 1303(a)(1)-BACT,12-6-2002] ; VOC: 1.6 PPMV NATURAL GAS (5) [RULE 1303(b)(2)-Offset,5-10-1996;RULE 1303(b)(2)-Offset,12-6-2002]	
CO OXIDATION CATALYST, UNIT NO. 2, BASF, MODEL 2B1071, WITH 130 CUBIC FEET OF TOTAL CATALYST VOLUME A/N:	C121	D5 C126			
SELECTIVE CATALYTIC REDUCTION, UNIT NO. 2, CORMETECH CM 21HT, WITH 2,750 CUBIC FEET OF TOTAL CATALYST VOLUME, WIDTH: 4 FT 7 IN; HEIGHT: 40 FT 3 IN; LENGTH: 24 FT 3 IN WITH A/N:	C126	C121 S132		NH3: 5 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT,5-10-1996;RULE 1303(a)(1)-BACT,12-6-2002]	A195.4, D12.2, D12.3, D12.4, E179.1, E179.2

* (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 LONG BEACH GENERATION LLC

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 2 : GAS TURBINES, POWER GENERATION					
AMMONIA INJECTION, GRID					
GAS TURBINE, UNIT NO. 3, NATURAL GAS, ALSTOM, MODEL 11D5, SIMPLE CYCLE, 871.3 MMBTU/HR AT 85 DEGREES F, WITH WATER INJECTION WITH A/N:	D6	C122	NOX: MAJOR SOURCE**	<p>CO: 2.9 PPMV NATURAL GAS (5A) [RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002] ; CO: 6 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996</p> <p>RULE 1303(a)(1)-BACT, 12-6-2002] ; CO: 2000 PPMV (5) [RULE 407, 4-2-1982] ; NOX: 124.49 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-6-2005]</p> <p>NOX: 20.22 LBS/MMSCF NATURAL GAS (1A) [RULE 2012, 5-6-2005] ; NOX: 3.5 PPMV NATURAL GAS (4) [RULE 2005, 5-6-2005] ; NOX: 15 PPMV NATURAL GAS (8) [40CFR 60 Subpart KKKK, 7-6-2006]</p> <p>PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981] ; PM: 0.01 GRAINS/SCF (5A) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]</p>	A63.1, A63.2, A63.3, A99.1, A99.2, A99.3, A99.4, A99.5, A99.6, A99.7, A195.1, A195.2, A195.3, A195.5, A195.6, A327.1, C1.1, D12.1, D29.1, D29.2, D29.3, D82.1, D82.2, I296.1, K40.1, K67.3

* (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 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 LONG BEACH GENERATION LLC

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 2 : GAS TURBINES, POWER GENERATION					
GENERATOR, 65 MW				PM: 11 LBS/HR (5B) [RULE 475,10-8-1976;RULE 475,8-7-1978] ; SO2: (9) [40CFR 72 - Acid Rain Provisions,11-24-1997] SOX: 0.06 LBS/MMSCF NATURAL GAS (8) [40CFR 60 Subpart KKKK,7-6-2006] ; VOC: 2 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT,5-10-1996 RULE 1303(a)(1)-BACT,12-6-2002] ; VOC: 1.6 PPMV NATURAL GAS (5) [RULE 1303(b)(2)-Offset,5-10-1996;RULE 1303(b)(2)-Offset,12-6-2002]	
CO OXIDATION CATALYST, UNIT NO. 3, BASF, MODEL 2B1017, WITH 130 CUBIC FEET OF TOTAL CATALYST VOLUME A/N:	C122	D6 C127			
SELECTIVE CATALYTIC REDUCTION, UNIT NO. 3, CORMETECH CM 21HT, WITH 2,750 CUBIC FEET OF TOTAL CATALYST VOLUME, WIDTH: 4 FT 7 IN; HEIGHT: 40 FT 3 IN; LENGTH: 24 FT 3 IN WITH A/N:	C127	C122 S133		NH3: 5 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT,5-10-1996;RULE 1303(a)(1)-BACT,12-6-2002]	A195.4, D12.2, D12.3, D12.4, E179.1, E179.2

* (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 LONG BEACH GENERATION LLC

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 2 : GAS TURBINES, POWER GENERATION					
AMMONIA INJECTION, GRID					
STACK, NO. 2, COMMON TO CTG NO. 3 AND CTG NO. 4, HEIGHT: 221 FT; DIAMETER: 18 FT 11 IN A/N:	S133	C127 C128			
GAS TURBINE, UNIT NO. 4, NATURAL GAS, ALSTOM, MODEL 11D5, SIMPLE CYCLE, 871.3 MMBTU/HR AT 85 DEGREES F, WITH WATER INJECTION WITH A/N:	D7	C123	NOX: MAJOR SOURCE**	CO: 2.9 PPMV NATURAL GAS (5A) [RULE 1303(b)(2)-Offset,5-10-1996;RULE 1303(b)(2)-Offset,12-6-2002] ; CO: 6 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT,5-10-1996 RULE 1303(a)(1)-BACT,12-6-2002] ; CO: 2000 PPMV (5) [RULE 407,4-2-1982] ; NOX: 124.49 LBS/MMSCF NATURAL GAS (1) [RULE 2012,5-6-2005] NOX: 20.22 LBS/MMSCF NATURAL GAS (1A) [RULE 2012,5-6-2005] ; NOX: 3.5 PPMV NATURAL GAS (4) [RULE 2005,5-6-2005] ; NOX: 15 PPMV NATURAL GAS (8) [40CFR 60 Subpart KKKK,7-6-2006]	A63.1, A63.2, A63.3, A99.1, A99.2, A99.3, A99.4, A99.5, A99.6, A99.7, A195.1, A195.2, A195.3, A195.5, A195.6, A327.1, C1.1, D12.1, D29.1, D29.2, D29.3, D82.1, D82.2, I296.1, K40.1, K67.3

* (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 LONG BEACH GENERATION LLC

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 2 : GAS TURBINES, POWER GENERATION					
GENERATOR, 65 MW				PM: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981] ; PM: 0.01 GRAINS/SCF (5A) [RULE 475,10-8-1976;RULE 475,8-7-1978] PM: 11 LBS/HR (5B) [RULE 475,10-8-1976;RULE 475,8-7-1978] ; SO2: (9) [40CFR 72 - Acid Rain Provisions,11-24-1997] SOX: 0.06 LBS/MMSCF NATURAL GAS (8) [40CFR 60 Subpart KKKK,7-6-2006] ; VOC: 2 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT,5-10-1996 RULE 1303(a)(1)-BACT,12-6-2002] ; VOC: 1.6 PPMV NATURAL GAS (5) [RULE 1303(b)(2)-Offset,5-10-1996;RULE 1303(b)(2)-Offset,12-6-2002]	
CO OXIDATION CATALYST, UNIT NO. 4, BASF, MODEL 2B1071, WITH 130 CUBIC FEET OF TOTAL CATALYST VOLUME A/N:	C123	D7 C128			

* (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 LONG BEACH GENERATION LLC

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 2 : GAS TURBINES, POWER GENERATION					
SELECTIVE CATALYTIC REDUCTION, NO. 4, CORMETECH CM 21HT, WITH 2,750 CUBIC FEET OF TOTAL CATALYST VOLUME, WIDTH: 4 FT 7 IN; HEIGHT: 40 FT 3 IN; LENGTH: 24 FT 3 IN WITH A/N: AMMONIA INJECTION, GRID	C128	C123 S133		NH3: 5 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT,5-10-1996;RULE 1303(a)(1)-BACT,12-6-2002]	A195.4, D12.2, D12.3, D12.4, E179.1, E179.2
Process 10 : INORGANIC CHEMICAL STORAGE					
STORAGE TANK, FIXED ROOF, TK-01, AMMONIA, 19 PERCENT SOLUTION, WITH PRV SET AT A MINIMUM OF 25 PSIG, 7000 GALS; DIAMETER: 7 FT 6.5 IN; HEIGHT: 23 FT A/N:	D134				C157.1, E144.1

* (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
LONG BEACH GENERATION LLC**

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.**

FACILITY PERMIT TO OPERATE LONG BEACH GENERATION LLC

SECTION H: DEVICE ID INDEX

Device Index For Section H			
Device ID	Section H Page No.	Process	System
D4	1	2	0
D5	3	2	0
D6	5	2	0
D7	7	2	0
C120	2	2	0
C121	4	2	0
C122	6	2	0
C123	8	2	0
C124	2	2	0
C126	4	2	0
C127	6	2	0
C128	8	2	0
S132	2	2	0
S133	6	2	0
D134	9	10	0

FACILITY PERMIT TO OPERATE LONG BEACH GENERATION LLC

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

FACILITY CONDITIONS

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

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

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

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

F16.1 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Purchase records of fuel oil and sulfur content of the fuel

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

DEVICE CONDITIONS

A. Emission Limits

FACILITY PERMIT TO OPERATE LONG BEACH GENERATION LLC

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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

CONTAMINANT	EMISSIONS LIMIT
PM10	Less than or equal to 690 LBS IN ANY ONE MONTH
CO	Less than or equal to 2,305 LBS IN ANY ONE MONTH
SOX	Less than or equal to 92 LBS IN ANY ONE MONTH
VOC	Less than or equal to 280 LBS IN ANY ONE MONTH

The operator shall calculate the monthly emissions for VOC, PM10, and SOx using the equation below and the following emission factors: VOC: 2.04 lb/mmcf; PM10: 5.39 lb/mmcf; and SOx: 0.71 lb/mmcf

Monthly Emissions, lb/month = x (EF)

Where x = monthly fuel usage, mmcf/month and EF = emission factor indicated above

Compliance with the CO emission limit shall be verified through valid CEMS data

The operator shall calculate the emission limit(s) for the purpose of determining compliance with the monthly CO limit in the absence of valid CEMS data by using the above equation and the following emission factors:

(A) During the commissioning period, and prior to CO catalyst installation, 66.63 lb CO/mmcf

(B) After installation of the CO catalyst but prior to CEMS certification testing - 12.17 lb CO/mmcf. The emission rate shall be recalculated in accordance with condition D82.1 if the approved CEMS certification test resulted in emission concentrations higher than 6 ppmv.

(C) After CO CEMS certification testing - 12.17 lb CO/mmcf. After CO CEMS certification test is approved by the AQMD, the emissions monitored by the CEMS and calculated in accordance with condition D82.1 shall be used to calculate emissions

For the purpose of this condition, the limits shall be based on the emissions from a single turbine. During commissioning, the CO emissions shall not exceed 3,836 lbs in any one month. During commissioning, the VOC emissions shall not exceed 297 lbs in any one month

The operator shall provide the AQMD with written notification of the data of initial CO catalyst use within seven (7) days of this event

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

[Devices subject to this condition : D4, D5, D6, D7]

FACILITY PERMIT TO OPERATE LONG BEACH GENERATION LLC

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

A63.2 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
CO	Less than or equal to 14,322 LBS IN ANY ONE YEAR
SOX	Less than or equal to 915 LBS IN ANY ONE YEAR

The operator shall calculate the monthly emissions of SOx using the equation below and the following emission factors: SOx: 0.71 lb/mmcf

$$\text{Annual Emissions, lb/year} = x (\text{EF})$$

Where x = annual fuel usage in mmcf/year and EF = emission factor indicated above

Compliance with the CO emission limit shall be verified through valid CEMS data

The operator shall calculate the emission limits for the purpose of determining compliance with the monthly CO limit in the absence of valid CEMS data by using the above equation and the following emission factor:

(A) During the commissioning period and prior to CO catalyst installation - 66.63 lb CO/mmcf

(B) After installation of the CO catalyst but prior to CO CEMS certification testing - 12.17 lb CO/mmcf. The emission rate shall be recalculated in accordance with condition D82.1 if the approved CEMS certification test resulted in an emission concentration higher than 6 ppmv

(C) After CO CEMS certification testing - 12.17 lb CO/mmcf. After CO CEMS certification test is approved by the AQMD, the emissions monitored by the CEMS and calculated in accordance with condition D82.1 shall be used to calculate emissions

For the purpose of this condition, the limits shall be based on the emissions from a single turbine. During commissioning the CO emissions shall not exceed 14,497 lb in any one year

The operator shall provide the AQMD with written notification of the date of initial CO catalyst use within seven (7) days of this event

For the purposes of this condition, the yearly emission limit shall be defined as a period of twelve (12) consecutive months determined on a rolling basis with a new 12 month period beginning on the first day of each calendar month.

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

[Devices subject to this condition : D4, D5, D6, D7]

FACILITY PERMIT TO OPERATE LONG BEACH GENERATION LLC

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

A63.3 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
NOX	Less than or equal to 48.88 TONS IN ANY ONE YEAR

For the purposes of this condition, the limit(s) shall be based on the total combined emissions from equipment D4, D5, D6, and D7.

For the purpose of this condition, the yearly emission limit shall be defined as a period of twelve (12) consecutive months determined on a rolling basis with a new twelve month period beginning on the first day of each calendar month

[40CFR 52.21 - PSD, 6-19-1978]

[Devices subject to this condition : D4, D5, D6, D7]

A99.1 The 3.5 PPM NOX emission limit(s) shall not apply during turbine commissioning, start-up, and shutdown periods. The commissioning period shall not exceed 120 hours. Start-up time shall not exceed 30 minutes for each start-up. Shutdown periods shall not exceed 30 minutes for each shutdown. The turbine shall be limited to a maximum of 100 start-ups per year. Written records of commissioning, start-ups and shutdowns shall be maintained and made available upon request from the Executive Officer.

[RULE 2005, 5-6-2005]

[Devices subject to this condition : D4, D5, D6, D7]

A99.2 The 6.0 PPM CO emission limit(s) shall not apply during turbine commissioning, start-up, and shutdown periods. The commissioning period shall not exceed 120 hours. Start-up time shall not exceed 30 minutes for each start-up. Shutdown periods shall not exceed 30 minutes for each shutdown. The turbine shall be limited to a maximum of 100 start-ups per year. Written records of commissioning, start-ups and shutdowns shall be maintained and made available upon request from the Executive Officer.

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

[Devices subject to this condition : D4, D5, D6, D7]

FACILITY PERMIT TO OPERATE LONG BEACH GENERATION LLC

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

- A99.3 The 124.49 LBS/MMCF NOX emission limit(s) shall only apply during the interim reporting period during initial turbine commissioning to report RECLAIM emissions. The interim reporting period shall not exceed twelve (12) months from entry into RECLAIM.

[RULE 2012, 5-6-2005]

[Devices subject to this condition : D4, D5, D6, D7]

- A99.4 The 20.22 LBS/MMCF NOX emission limit(s) shall only apply during the interim reporting period after initial turbine commissioning to report RECLAIM emissions. The interim reporting period shall not exceed 12 months from entry into RECLAIM.

[RULE 2012, 5-6-2005]

[Devices subject to this condition : D4, D5, D6, D7]

- A99.5 The 2.0 PPM ROG emission limit(s) shall not apply during turbine commissioning, start-up, and shutdown periods. The commissioning period shall not exceed 120 hours. Start-up time shall not exceed 30 minutes for each start-up. Shutdown periods shall not exceed 30 minutes for each shutdown. The turbine shall be limited to a maximum of 100 start-ups per year. Written records of commissioning, start-ups and shutdowns shall be maintained and made available upon request from the Executive Officer.

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

[Devices subject to this condition : D4, D5, D6, D7]

- A99.6 The 1.6 PPM ROG emission limit(s) shall not apply during turbine commissioning, start-up, and shutdown periods. The commissioning period shall not exceed 120 hours. Start-up time shall not exceed 30 minutes for each start-up. Shutdown periods shall not exceed 30 minutes for each shutdown. The turbine shall be limited to a maximum of 100 start-ups per year. Written records of commissioning, start-ups and shutdowns shall be maintained and made available upon request from the Executive Officer.

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

[Devices subject to this condition : D4, D5, D6, D7]

FACILITY PERMIT TO OPERATE LONG BEACH GENERATION LLC

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

A99.7 The 2.9 PPM CO emission limit(s) shall not apply during turbine commissioning, start-up, and shutdown periods. The commissioning period shall not exceed 120 hours. Start-up time shall not exceed 30 minutes for each start-up. Shutdown periods shall not exceed 30 minutes for each shutdown. The turbine shall be limited to a maximum of 100 start-ups per year. Written records of commissioning, start-ups and shutdowns shall be maintained and made available upon request from the Executive Officer.

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

[Devices subject to this condition : D4, D5, D6, D7]

A195.1 The 6.0 PPMV CO emission limit(s) is averaged over 60 minutes at 15 percent O₂, dry.

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

[Devices subject to this condition : D4, D5, D6, D7]

A195.2 The 3.5 PPMV NOX emission limit(s) is averaged over 60 minutes at 15 percent O₂, dry.

[**RULE 2005, 5-6-2005**]

[Devices subject to this condition : D4, D5, D6, D7]

A195.3 The 2.0 PPMV VOC emission limit(s) is averaged over 60 minutes at 15 percent O₂, dry.

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

[Devices subject to this condition : D4, D5, D6, D7]

FACILITY PERMIT TO OPERATE LONG BEACH GENERATION LLC

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

A195.4 The 5 PPMV NH₃ emission limit(s) is averaged over 60 minutes at 15 % O₂ dry basis. The operator shall calculate and continuously record the NH₃ slip concentration using the following:.

$$\text{NH}_3 \text{ (ppmv)} = [a-b*c/1\text{EE}+06]*1\text{EE}+06/b$$

Where,

a=NH₃ injection rate (lb/hr)/17 (lb/lb-mol)

b=dry exhaust gas flow rate (scf/hr)/385.3 scf/lb-mol

c=change in measured NO_x across the SCR (ppmvd at 15% O₂)

The operator shall install and maintain a NO_x analyzer to measure teh SCR inlet NO_x ppmv accurate to plus or minus 5 percent calibrtrated at least once every thwelve months.

The NO_x analyzer shall be installed and operated within 90 days of initial start-up.

The operator shall use the above described method or another alternative method approved by the Executive Officer.

The ammonia slip calculation procedures described above shall not be used for compliance determination or emission information without corroborative data using and approved reference method for the determination of ammonia.

[**RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 2012, 5-6-2005**]

[Devices subject to this condition : C124, C126, C127, C128]

A195.5 The 1.6 PPMV VOC emission limit(s) is averaged over 60 minutes.

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

[Devices subject to this condition : D4, D5, D6, D7]

A195.6 The 2.9 PPMV CO emission limit(s) is averaged over 60 minutes.

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

[Devices subject to this condition : D4, D5, D6, D7]

FACILITY PERMIT TO OPERATE LONG BEACH GENERATION LLC

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

A327.1 For the purpose of determining compliance with District Rule 475, combustion contaminant emissions may exceed the concentration limit or the mass emission limit listed, but not both limits at the same time.

[RULE 475, 10-8-1976; RULE 475, 8-7-1978]

[Devices subject to this condition : D4, D5, D6, D7]

C. Throughput or Operating Parameter Limits

C1.1 The operator shall limit the fuel usage to no more than 128 MM cubic feet in any one calendar month.

For the purpose of this condition, fuel usage shall be defined as the total natural gas usage of a single turbine.

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

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

[Devices subject to this condition : D4, D5, D6, D7]

C157.1 The operator shall install and maintain a pressure relief valve with a minimum pressure set at 25 psig.

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

[Devices subject to this condition : D134]

D. Monitoring/Testing Requirements

FACILITY PERMIT TO OPERATE LONG BEACH GENERATION LLC

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

- D12.1 The operator shall install and maintain a(n) flow meter to accurately indicate the fuel usage being supplied to the turbine.

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; RULE 2012, 5-6-2005]

[Devices subject to this condition : D4, D5, D6, D7]

- D12.2 The operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the total hourly throughput of injected ammonia.

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

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

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 2005, 5-6-2005]

[Devices subject to this condition : C124, C126, C127, C128]

- D12.3 The operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature of the exhaust at the inlet to the SCR reactor.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 2005, 5-6-2005]

[Devices subject to this condition : C124, C126, C127, C128]

- D12.4 The operator shall install and maintain a(n) pressure gauge to accurately indicate the differential pressure across the SCR catalyst bed in inches of water column.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 2005, 5-6-2005]

[Devices subject to this condition : C124, C126, C127, C128]

FACILITY PERMIT TO OPERATE LONG BEACH GENERATION LLC

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

D29.1 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
NOX emissions	District method 100.1	1 hour	Outlet of the SCR serving this equipment
CO emissions	District method 100.1	1 hour	Outlet of the SCR serving this equipment
VOC emissions	Approved District method	District-approved averaging time	Outlet of the SCR serving this equipment
SOX emissions	Approved District method	District-approved averaging time	Fuel sample
PM10 emissions	Approved District method	District-approved averaging time	Outlet of the SCR serving this equipment
NH3 emissions	District method 207.1 and 5.3 or EPA method 17	1 hour	Outlet of the SCR serving this equipment

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

The test shall be conducted to determine the oxygen levels in the exhaust. In addition, the tests shall measure the fuel flow rate (CFH), the flue gas flow rate, and the turbine generating output in MW.

The test shall be conducted in accordance with AQMD approved test protocol. The protocol shall be submitted to the AQMD engineer no later than 45 days before the proposed test date and shall be approved by the AQMD before the test commences. The test protocol shall include the proposed operating conditions of the turbine during the tests, the identity of the testing lab, a statement from the testing lab certifying that it meets the criteria of Rule 304, and a description of all sampling and analytical procedures.

The test shall be conducted when this equipment is operating at maximum, average, and minimum loads.

The test shall be conducted for compliance verification of the BACT VOC 2.0 ppmv limit.

For natural gas fired turbines only, VOC compliance shall be demonstrated as follows: a) Stack gas samples are extracted into Summa canisters maintaining a final canister pressure between 400-500 mm Hg absolute. b) Pressurization of canisters are done with zero gas analyzed/certified to contain less than 0.05 ppmv total hydrocarbon as carbon, and c) Analysis of canisters are per EPA Method TO-12 (with pre concentration) and temperature of canisters when extracting samples for analysis is not below 70 deg F

FACILITY PERMIT TO OPERATE LONG BEACH GENERATION LLC

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

The use of this alternative method for VOC compliance determination does not mean that it is more accurate than AQMD Method 25.3, nor does it mean that it may be used in lieu of AQMD Method 25.3 without prior approval except for the determination of compliance with the VOC BACT level of 2.0 ppmv calculated as carbon for natural gas fired turbines

Because the VOC BACT level was set using data derived from various source test results, this alternate VOC compliance method provides a fair comparison and represents the best sampling and analysis technique for this purpose at this time. The test results shall be reported with two significant digits

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

[Devices subject to this condition : D4, D5, D6, D7]

D29.2 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
NH3 emissions	District method 207.1 and 5.3 or EPA method 17	1 hour	Outlet of the SCR serving this equipment

The test shall be conducted and the results submitted to the District within 45 days after the test date. The AQMD shall be notified of the date and time of the test at least 7 days prior to the test.

The test(s) shall be conducted at least quarterly during the first twelve months of operation and at least annually thereafter. The NOx concentration as determined by the CEMS shall be simultaneously recorded during the ammonia slip test. If the CEMS is inoperable, a test shall be conducted to determine the NOx emissions using District Method 100.1 measured over a 60 minute averaging time period.

The test shall be conducted to determine compliance with the Rule 1303 concentration limit.

If the equipment is not operated in any given quarter, the operator may defer the required testing to a quarter in which the equipment is operated

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

[Devices subject to this condition : D4, D5, D6, D7]

FACILITY PERMIT TO OPERATE LONG BEACH GENERATION LLC

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

D29.3 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
SOX emissions	Approved District method	District-approved averaging time	Fuel sample
VOC emissions	Approved District method	1 hour	Outlet of the SCR serving this equipment
PM10 emissions	Approved District method	District-approved averaging time	Outlet of the SCR serving this equipment

The test(s) shall be conducted at least once every three years.

The test shall be conducted to determine the oxygen levels in the exhaust. In addition, the tests shall measure the fuel flow rate (CFH), the flue gas flow rate, and the turbine generating output in MW.

The test shall be conducted in accordance with AQMD approved test protocol. The protocol shall be submitted to the AQMD engineer no later than 45 days before the proposed test date and shall be approved by the AQMD before the test commences. The test protocol shall include the proposed operating conditions of the turbine during the tests, the identity of the testing lab, a statement from the testing lab certifying that it meets the criteria of Rule 304, and a description of all sampling and analytical procedures.

The test shall be conducted when this equipment is operating at 100 percent load.

The test shall be conducted for compliance verification of the BACT VOC 2.0 ppmv limit.

For natural gas fired turbines only, VOC compliance shall be demonstrated as follows: a) Stack gas samples are extracted into Summa canisters maintaining a final canister pressure between 400-500 mm Hg absolute. b) Pressurization of canisters are done with zero gas analyzed/certified to contain less than 0.05 ppmv total hydrocarbon as carbon, and c) Analysis of canisters are per EPA Method TO-12 (with pre concentration) and temperature of canisters when extracting samples for analysis is not below 70 deg F

The use of this alternative method for VOC compliance determination does not mean that it is more accurate than AQMD Method 25.3, nor does it mean that it may be used in lieu of AQMD Method 25.3 without prior approval except for the determination of compliance with the VOC BACT level of 2.0 ppmv calculated as carbon for natural gas fired turbines

Because the VOC BACT level was set using data derived from various source test results, this alternate VOC compliance method provides a fair comparison and represents the best sampling and analysis technique for this purpose at this time. The test results shall be reported with two significant digits

FACILITY PERMIT TO OPERATE LONG BEACH GENERATION LLC

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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

[Devices subject to this condition : D4, D5, D6, D7]

D82.1 The operator shall install and maintain a CEMS to measure the following parameters:

CO concentration in ppmv

Concentrations shall be corrected to 15 percent oxygen on a dry basis.

The CEMS shall be installed and operated no later than 90 days after initial start-up of the turbine, and in accordance with an approved AQMD Rule 218 CEMS plan application. The operator shall not install the CEMS prior to receiving initial approval from AQMD. Within two weeks of the turbine start-up, the operator shall provide written notification to the District of the exact date of start-up

The CEMS shall be installed and operated to measure CO concentrations over a 15 minute averaging time period

The CEMS would convert the actual CO concentrations to mass emission rates (lb/hr) using the equation below and record the hourly emission rates on a continuous basis

CO Emission Rate, lb/hr = $K C_{co} F_d [(20.9/20.9\% - \%O_2 d)] [Q_g * HHV]/106$, where

$K = 7.267EE-8$ (lb/scf)/ppm

C_{co} = Average of four consecutive 15 minute average CO concentration, ppm

$F_d = 8,710$ dscf/MMBTU natural gas

$\%O_2 d$ = Hourly average % by vol O₂ dry, corresponding to C_{co}

Q_g = Fuel gas usage during the hour, scf/hr

HHV = Gross high heating value of fuel gas, BTU/scf

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 218, 8-7-1981; RULE 218, 5-14-1999]

[Devices subject to this condition : D4, D5, D6, D7]

FACILITY PERMIT TO OPERATE LONG BEACH GENERATION LLC

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

D82.2 The operator shall install and maintain a CEMS to measure the following parameters:

NOX concentration in ppmv

Concentrations shall be corrected to 15 percent oxygen on a dry basis.

The CEMS shall be installed and operated no later than 90 days after initial start-up of the turbine, and shall comply with the requirements of Rule 2012. During the interim period between the initial start-up and the provisional certification date of the CEMS, the operator shall comply with the monitoring requirements of Rule 2012(h)(2) and 2012(h)(3). Within two weeks of the turbine start-up date, the operator shall provide written notification to the District of the exact date of start-up

The CEMS shall be installed and operating (for BACT purposes only) no later than 90 days after initial start-up of the turbine

[RULE 2005, 5-6-2005; RULE 2012, 5-6-2005]

[Devices subject to this condition : D4, D5, D6, D7]

E. Equipment Operation/Construction Requirements

E144.1 The operator shall vent this equipment, during filling, only to the vessel from which it is being filled.

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

[Devices subject to this condition : D134]

E179.1 For the purpose of the following condition number(s), continuously record shall be defined as recording at least once every hour and shall be calculated based upon the average of the continuous monitoring for that hour.

Condition Number D 12- 2

Condition Number D 12- 3

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 2012, 5-6-2005]

[Devices subject to this condition : C124, C126, C127, C128]

FACILITY PERMIT TO OPERATE LONG BEACH GENERATION LLC

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

E179.2 For the purpose of the following condition number(s), continuously record shall be defined as measuring at least once every month and shall be calculated based upon the average of the continuous monitoring for that month.

Condition Number D 12- 4

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 2005, 5-6-2005]

[Devices subject to this condition : C124, C126, C127, C128]

I. Administrative

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

To comply with this condition, the operator shall prior to the 1st compliance year hold a minimum NOx RTCs of 24,442 lb/yr. This condition shall apply during the 1st 12 months of operation, commencing with the initial operation of the gas turbine

To comply with this condition, the operator shall, prior to the beginning of all years subsequent to the 1st compliance year, hold a minimum of 21,600 lb/yr of NOx RTCs for operation of the gas turbine. In accordance with Rule 2005(f), unused RTCs may be sold only during the reconciliation period for the fourth quarter of the applicable compliance year inclusive of the 1st compliance year.

This condition shall apply to each turbine individually

[RULE 2005, 5-6-2005]

[Devices subject to this condition : D4, D5, D6, D7]

K. Record Keeping/Reporting

FACILITY PERMIT TO OPERATE LONG BEACH GENERATION LLC

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

K40.1 The operator shall provide to the District a source test report in accordance with the following specifications:

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

Emission data shall be expressed in terms of concentration (ppmv) corrected to 15 percent oxygen (dry basis), mass rate (lbs/hr), and lbs/MM Cubic Feet. In addition, solid PM emissions, if required to be tested, shall also be reported in terms of grains per DSCF.

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

All moisture concentration shall be expressed in terms of percent corrected to 15 percent oxygen.

Source test results shall also include the oxygen levels in the exhaust, fuel flow rate (CFH), the flue gas temperature, and the generator power output (MW) under which the test was conducted.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 2009, 5-11-2001]

[Devices subject to this condition : D4, D5, D6, D7]

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

Natural gas fuel use after CEMS certification

Natural gas fuel use during the commissioning period

Natural gas fuel use after the commissioning period and prior to CEMS certification

[RULE 2012, 5-6-2005]

[Devices subject to this condition : D4, D5, D6, D7]

FACILITY PERMIT TO OPERATE LONG BEACH GENERATION LLC

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.

FACILITY PERMIT TO OPERATE LONG BEACH GENERATION LLC

SECTION K: TITLE V Administration

GENERAL PROVISIONS

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

Permit Renewal and Expiration

3. (A) Except for solid waste incineration facilities subject to standards under Section 129(e) of the Clean Air Act, this permit shall expire five years from the date that the initial 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 LONG BEACH GENERATION LLC

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 LONG BEACH GENERATION LLC

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 LONG BEACH GENERATION LLC

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 LONG BEACH GENERATION LLC

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.

FACILITY PERMIT TO OPERATE LONG BEACH GENERATION LLC

SECTION K: TITLE V Administration

RECORDKEEPING PROVISIONS

19. In addition to any other recordkeeping requirements specified elsewhere in this permit, the operator shall keep records of required monitoring information, where applicable, that include:
- (A) The date, place as defined in the Title V permit, and time of sampling or measurements;
 - (B) The date(s) analyses were performed;
 - (C) The company or entity that performed the analyses;
 - (D) The analytical techniques or methods used;
 - (E) The results of such analyses; and
 - (F) The operating conditions as existing at the time of sampling or measurement. [3004(a)(4)(B)]
20. The operator shall maintain records pursuant to Rule 109 and any applicable material safety data sheet (MSDS) for any equipment claimed to be exempt from a written permit by Rule 219 based on the information in those records. [219(o)]
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 LONG BEACH GENERATION LLC

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 LONG BEACH GENERATION LLC

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)]

FACILITY PERMIT TO OPERATE LONG BEACH GENERATION LLC

SECTION K: TITLE V Administration

FACILITY RULES

This facility is subject to the following rules and regulations:

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

RULE SOURCE	Adopted/Amended Date	FEDERAL Enforceability
RULE 1113	11-8-1996	Federally enforceable
RULE 1113	7-9-2004	Non federally enforceable
RULE 1140	2-1-1980	Federally enforceable
RULE 1140	8-2-1985	Non federally enforceable
RULE 1171	11-7-2003	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(b)(1)-Modeling	12-6-2002	Non federally enforceable
RULE 1303(b)(1)-Modeling	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 2005	5-6-2005	Federally enforceable
RULE 2009	5-11-2001	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 218	5-14-1999	Non federally enforceable
RULE 218	8-7-1981	Federally enforceable
RULE 219	9-4-1981	Federally enforceable
RULE 3002	11-14-1997	Federally enforceable
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 401	11-9-2001	Non federally enforceable
RULE 401	3-2-1984	Federally enforceable
RULE 402	5-7-1976	Non federally enforceable

FACILITY PERMIT TO OPERATE LONG BEACH GENERATION LLC

SECTION K: TITLE V Administration

RULE SOURCE	Adopted/Amended Date	FEDERAL Enforceability
RULE 404	2-7-1986	Federally enforceable
RULE 405	2-7-1986	Federally enforceable
RULE 407	4-2-1982	Federally enforceable
RULE 408	5-7-1976	Federally enforceable
RULE 409	8-7-1981	Federally enforceable
RULE 430	7-12-1996	Non federally enforceable
RULE 431.2	5-4-1990	Federally enforceable
RULE 431.2	9-15-2000	Non federally enforceable
RULE 464	12-7-1990	Federally enforceable
RULE 475	10-8-1976	Federally enforceable
RULE 475	8-7-1978	Non federally enforceable
40CFR 52.21 - PSD	6-19-1978	Federally enforceable
40CFR 60 Subpart KKKK	7-6-2006	Federally enforceable
RULE 701	6-13-1997	Federally enforceable
40CFR 72 - Acid Rain Provisions	11-24-1997	Federally enforceable

**FACILITY PERMIT TO OPERATE
LONG BEACH GENERATION LLC**

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

1. HOT WATER PRESSURE WASHER, PROPANE, < 2 MMBTU/HR
2. ICE, SCREEN WASH PUMP, GASOLINE

Your Order is sent.

Customer Information

Customer Name : SCAQMD/ENGINEERING & COMPLIANCE
Address : 21865 COPLEY DR 5TH FLR
City : DIAMOND BAR
State - Zip : CA - 917654178
Master Id : 59938
Phone : 9093962825
Fax : 9093963341

Product Information

Legal GOVERNMENT - GOVT PUBLIC NOTICE

Order Information

Attention Name : Scott Robins/Ken Coats
Ad Description : Long Beach Generation LLC - Facility ID #115314 - Reclaim/Title V
Special Instructions : Publish for general circulation, in the Long Beach City Press Telegram on March 2, 2007. Requesting an "ADVANCE COST" before the publication please.
Billing Reference No. : 50774-67500
Sale/Hrg/Bid Date : -

Orders Created

Order No.	Newspaper Name	Publishing Dates
1095575	PRESS TELEGRAM, CA	03/02/2007

Ad

The Ad exists as an uploaded file.



South Coast Air Quality Management District

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

NOTICE OF INTENT TO ISSUE PERMIT PURSUANT TO AQMD RULES 212 AND 3006

This notice is to inform you that the South Coast Air Quality Management District (AQMD) has received and reviewed permit applications for Long Beach Generation LLC and intends to issue a facility permit, 1) at the end of the 30-day public comment and review period after all pertinent comments have been considered and 2) upon U.S. Environmental Protection Agency approval of the Title V permit and 3) upon certification of a Negative Declaration for this project from the Port of Long Beach.

The AQMD is the air pollution control agency for the four county-region including Orange County and parts of Los Angeles, Riverside and San Bernardino counties. Anyone wishing to install or modify equipment that could control or be a source of air pollution within this region must first obtain a permit from the AQMD. Under certain circumstances, before a permit is granted, a public notice, such as this, is prepared by the AQMD and distributed.

The AQMD has evaluated the permit applications listed below for the following facility and determined that the project meets or will meet all applicable AQMD rules and regulations based upon the evaluation described below:

FACILITY: Long Beach Generation LLC
2665 W. Seaside Blvd
Long Beach, CA 90802
Facility ID No: 115314

CONTACT: Mr. Tim Hemig
Director, Environmental Business
NRG West
1819 Aston Avenue Suite 105
Carlsbad, CA 92008

AQMD APPLICATION NUMBERS

Application Number	Equipment Description
463222	Gas Turbine No. 1
463223	Gas Turbine No. 2
463224	Gas Turbine No. 3
463225	Gas Turbine No. 4
463226	SCR/CO Catalyst for Turbine No. 1
463227	SCR/CO Catalyst for Turbine No. 2
463228	SCR/CO Catalyst for Turbine No. 3
463229	SCR/CO Catalyst for Turbine No. 4
463221	Aqueous Ammonia Storage Tank
463218	Title V Modification

FACILITY PURPOSE

Long Beach Generation LLC will provide additional electricity to the grid on an intermittent basis to provide needed power during periods of peak demand. Long Beach Generation LLC is a wholly owned subsidiary of NRG Energy and is responsible for development and operation of the proposed power plant.

PROJECT DESCRIPTION

The project consists of installing a power plant with the capability of generating a total of 260 megawatts (MW) of electrical power consisting of four (4) re-furbished simple cycle Alstom 11D5 gas turbines with associated air pollution control systems, and an aqueous ammonia storage tank. Since the above equipment has the potential to emit pollutants in excess of the levels specified in AQMD Rule 212(g), a public notice is required.

PROJECTED EMISSIONS

After the initial commissioning period, the total average daily emissions in any calendar month from the operation of the proposed equipment in conjunction with the air pollution control system is not expected to exceed the following:

Pollutant	Maximum Monthly Emissions, lbs/month
NOx	14,177
CO	9,219
VOC	1,120
PM ₁₀	2,760
SOx	366
NH ₃	11,860

Emissions from the proposed project contain pollutants that are considered toxic under AQMD Rule 1401-New Source Review of Toxic Air Contaminants. Therefore, a health risk assessment was performed for this project. The health risk assessment uses health protective assumptions in estimating actual risk to an individual person. Even assuming this health protective condition, the evaluation shows that the maximum individual cancer risk increase from the project is less than one-in-one-million. Also, acute and chronic indices, which measure the toxicants' impact on target organs, are less than one. These levels of estimated risk are below the threshold limits of Rule 1401 (d) established for new or modified sources. The following table summarizes the results of the health risk assessment:

Receptor	Cancer Risk (per million)	Chronic Hazard Index	Acute Hazard Index
Residential	0.0016	0.0001	0.0023
Commercial	0.00028	0.00009	0.0023

This facility is a new Federal Title V and Title IV (Acid Rain) facility. Pursuant to AQMD Title V Permits Rule 3006 – Public Participation, any person may request a proposed permit hearing on an application for a Title V significant permit revision by filing with the Executive Officer a complete Hearing Request Form (Form 500G) for a proposed hearing within 15 days of the date of publication of notice. On or before the date the request is filed, the person requesting a proposed permit hearing must also send by first class a copy of the request to the facility address and contact person listed above.

THE FOLLOWING REQUIREMENT MUST BE COMPLIED WITH PRIOR TO THE ISSUANCE OF FINAL PERMIT

To fully comply with the all applicable rules and regulations, the applicant must complete the following:

Long Beach Generation LLC must provide emission offsets for NO_x, VOC, and PM₁₀ emissions. Emission offsets for PM₁₀ and VOC will be provided in the form of either Emission Reduction Credits (ERCs) and a SO_x-to-PM₁₀ interpollutant trade. Emission offsets for NO_x will be in the form of Reclaim Trading Credits (RTCs).

The air quality analysis and draft Permit to Construct for this project are available for public review at the AQMD's headquarters in Diamond Bar and at the Long Beach Public Library, 101 Pacific Avenue, Long Beach, CA 90822. A copy of the draft Permit to Construct can also be viewed at <http://www.aqmd.gov/webappl/PublicNotices/Search.aspx> by entering the company's name. Additional information including the facility owner's compliance history submitted to the AQMD pursuant to Section 42336, or otherwise known to the AQMD, based on credible information, is available at the AQMD for public review by contacting Mr. Kenneth L. Coats (kcoats@aqmd.gov), Engineering and Compliance, South Coast Air Quality Management District, 21865 Copley Drive, Diamond Bar, CA 91765-4182, (909) 396-2527. Anyone wishing to comment on the air quality elements of this permit should submit comments in writing to the AQMD, attention Mr. Michael D. Mills. Comments must be received within 30 days of the distribution/publication of this notice. If you are concerned primarily about zoning decisions and the process by which the facility has been sited in this location, contact your local city or county planning department. For your general information, anyone experiencing air quality problems such as dust or odor can telephone in a complaint to the AQMD by calling 1-800-CUT-SMOG (1-800-288-7664).