

FACILITY PERMIT TO OPERATE

**THUMS LONG BEACH CO
1411 PIER D ST
LONG BEACH, CA 90802**

NOTICE

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

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

Barry R. Wallerstein, D. Env.
EXECUTIVE OFFICER

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

FACILITY PERMIT TO OPERATE THUMS LONG BEACH CO

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FACILITY PERMIT TO OPERATE THUMS LONG BEACH CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|--|--------|--------------|---|---|------------|
| Process 1: R-219 EXEMPT EQUIPMENT SUBJECT TO SOURCE SPECIFIC RULES | | | | | |
| RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS | E1 | | | ROG: (9) [RULE 1113, 11-8-1996; RULE 1113, 12-5-2003; RULE 1171, 8-2-2002; RULE 1171, 11-7-2003] | K67.1 |

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

**FACILITY PERMIT TO OPERATE
THUMS LONG BEACH CO**

SECTION D: DEVICE ID INDEX

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

**FACILITY PERMIT TO OPERATE
THUMS LONG BEACH CO
SECTION D: DEVICE ID INDEX**

| Device Index For Section D | | | |
|-----------------------------------|---------------------------|----------------|---------------|
| Device ID | Section D Page No. | Process | System |
| E1 | 1 | 1 | 0 |

FACILITY PERMIT TO OPERATE THUMS LONG BEACH CO

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, 9-11-1998]

DEVICE CONDITIONS

K. Record Keeping/Reporting

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

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.

FACILITY PERMIT TO OPERATE THUMS LONG BEACH CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

[Devices subject to this condition : E1]

FACILITY PERMIT TO OPERATE THUMS LONG BEACH CO

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: INTERNAL COMBUSTION: POWER GENERATION | | | | | |
| GAS TURBINE, NO. 1, NATURAL GAS, GENERAL ELECTRIC, MODEL LM6000, ENHANCED SPRINT, SIMPLE CYCLE, WITH ENHANCED FLOW AND SPEED (EFS) UPGRADE, WITH WATER INJECTION, 472.5 MMBTU/HR WITH A/N: 443048 Permit to Construct Issued: 10/04/05 GENERATOR, NO. 1, 49.9 MW | D2 | C4 | NOX: MAJOR SOURCE** | CO: 6 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 5 PPMV (4) [RULE 2005, 4-9-1999; RULE 2005, 4-20-2001]; NOX: 103 PPMV NATURAL GAS (8) [40CFR 60 Subpart GG, 3-6-1981]; PM: 0.01 GRAINS/SCF (5A) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; PM: 11 LBS/HR (5B) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; SOX: 150 PPMV (8) [40CFR 60 Subpart GG, 3-6-1981]; VOC: 2 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996] | A63.1, A99.1, A99.2, A99.5, A195.1, A195.2, A195.4, A327.1, D12.1, D29.2, D82.1, E57.1, E193.1, I296.1, K40.1, K67.2 |
| CO OXIDATION CATALYST, EMERA CHEM, WITH 76.5 CUBIC FEET OF TOTAL CATALYST VOLUME A/N: 427894 Permit to Construct Issued: 05/06/04 | C4 | D2 C5 | | | |

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

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

FACILITY PERMIT TO OPERATE THUMS LONG BEACH CO

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: INTERNAL COMBUSTION: POWER GENERATION | | | | | |
| SELECTIVE CATALYTIC REDUCTION, HITACHI AMERICA, OF TOTAL CATALYST VOLUME, 1349 CU.FT.; WIDTH: 12 FT ; HEIGHT: 50 FT ; LENGTH: 20 FT WITH A/N: 427894 Permit to Construct Issued: 05/06/04 AMMONIA INJECTION, GRID | C5 | C4 S7 | | NH3: 5 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996] | A195.3, D12.2, D12.3, D12.4, D29.1, D29.3, D29.4, E73.1, E179.1, E179.2, E193.1, K40.1 |
| STACK, NO. 1, HEIGHT: 65 FT ; DIAMETER: 9 FT A/N: 443048 Permit to Construct Issued: 10/04/05 | S7 | C5 S9 | | | |
| STACK, EXHAUST HEAT DUCT FOR WALLBOARD DRYING, LENGTH: 1100 FT ; DIAMETER: 9 FT A/N: 443048 Permit to Construct Issued: 10/04/05 | S9 | S7 | | | |
| Process 3: INORGANIC CHEMICAL STORAGE | | | | | |
| STORAGE TANK, FIXED ROOF, AQUEOUS AMMONIA 19%, WITH A VAPOR RETURN LINE, 10000 GALS A/N: 390480 Permit to Construct Issued: 05/10/02 | D8 | | | | C157.1, E144.1, E193.1 |

* (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
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SECTION H: DEVICE ID INDEX

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

FACILITY PERMIT TO OPERATE THUMS LONG BEACH CO

SECTION H: DEVICE ID INDEX

| Device Index For Section H | | | |
|-----------------------------------|---------------------------|----------------|---------------|
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| D2 | 1 | 2 | 0 |
| C4 | 1 | 2 | 0 |
| C5 | 2 | 2 | 0 |
| S7 | 2 | 2 | 0 |
| D8 | 2 | 3 | 0 |
| S9 | 2 | 2 | 0 |

FACILITY PERMIT TO OPERATE THUMS LONG BEACH CO

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, 9-11-1998]

DEVICE CONDITIONS

A. Emission Limits

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

| CONTAMINANT | EMISSIONS LIMIT |
|-------------|--|
| CO | Less than or equal to 4795 LBS IN ANY CALENDAR MONTH |
| PM10 | Less than or equal to 2246 LBS IN ANY CALENDAR MONTH |
| ROG | Less than or equal to 903 LBS IN ANY CALENDAR MONTH |
| SOX | Less than or equal to 463 LBS IN ANY CALENDAR MONTH |

FACILITY PERMIT TO OPERATE THUMS LONG BEACH CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

The operator shall calculate the emission limit(s) by using monthly fuel use data, and the following emission factors: ROG = 2.70 lb/MMscf, PM10 = 6.94 lb/MMscf, and SOx = 1.43 lb/MMscf

The operator shall calculate the emission limit(s) for CO, after the CO CEMS certification, based on readings from the certified CEMS. In the event the CO CEMS is not operating or the emissions exceed the valid upper range of the analyzer, the emissions shall be calculated in accordance with the approved CEMS plan.

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

[Devices subject to this condition : D2]

- A99.1 The 5 PPM NOX emission limit(s) shall not apply during the startup period. Each turbine startup event shall not exceed 1 hour. The number of startup events shall not exceed 4 events per day. Startups shall not exceed 20 events per calendar month or 220 events per calendar year. Written records of startups shall be maintained and made available upon request from AQMD. The 5 PPM NOx limit shall apply at all other operating times.

[RULE 2005, 4-9-1999; RULE 2005, 4-20-2001]

[Devices subject to this condition : D2]

- A99.2 The 6 PPM CO emission limit(s) shall not apply during the startup period. Each turbine startup event shall not exceed 1 hour. The number of startup events shall not exceed 4 events per day. Startups shall not exceed 20 events per calendar month or 220 events per calendar year. Written records of startups shall be maintained and made available upon request from AQMD. The 6 PPM CO limit shall apply at all other operating times.

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

[Devices subject to this condition : D2]

FACILITY PERMIT TO OPERATE THUMS LONG BEACH CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

A99.5 The 2 PPM ROG emission limit(s) shall not apply during the startup period. Each turbine startup event shall not exceed 1 hour. The number of startup events shall not exceed 4 events per day. Startups shall not exceed 20 events per calendar month or 220 events per calendar year. Written records of startups shall be maintained and made available upon request from AQMD. The 2 PPM ROG limit shall apply at all other operating times.

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

[Devices subject to this condition : D2]

A195.1 The 5 PPMV NOX emission limit(s) is averaged over 1 hour at 15 percent oxygen, dry.

[RULE 2005, 4-9-1999; RULE 2005, 4-20-2001]

[Devices subject to this condition : D2]

A195.2 The 6 PPMV CO emission limit(s) is averaged over 1 hour at 15 percent oxygen, dry.

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

[Devices subject to this condition : D2]

A195.3 The 5 PPMV NH₃ emission limit(s) is averaged over 60 minutes at 15 percent O₂ dry. The operator shall calculate and continuously record the NH₃ slip concentration using the following: $NH_3(ppmv)=[a-b*c/1E6]*1E6/b$, where a=NH₃ injection rate (lb/hr)/17 (lb/lb mole), b=dry exhaust gas flow rate (lb/hr)/29(lb/lb mole), and c=change in measured NO_x across the SCR (ppmvd at 3 percent O₂). The operator shall install and maintain a NO_x analyzer to measure the SCR inlet NO_x ppm accurate to within +/- 5 percent calibrated at least once every 12 months.

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

[Devices subject to this condition : C5]

A195.4 The 2 PPMV ROG emission limit(s) is averaged over 1 hour at 15 percent oxygen, dry.

FACILITY PERMIT TO OPERATE THUMS LONG BEACH CO

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]

[Devices subject to this condition : D2]

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 : D2]

C. Throughput or Operating Parameter Limits

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

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

[Devices subject to this condition : D8]

D. Monitoring/Testing Requirements

D12.1 The operator shall install and maintain a(n) measuring device to accurately indicate the water-to-fuel ratio of the turbine.

[RULE 2012, 5-11-2001; RULE 2012, 12-5-2003; 40CFR 60 Subpart GG, 3-6-1981]

[Devices subject to this condition : D2]

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 continuously record the flow rate with a measuring device or gauge accurate to +/- 5 percent, calibrated once every 12 months.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]

FACILITY PERMIT TO OPERATE THUMS LONG BEACH CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

[Devices subject to this condition : C5]

- 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. The operator shall continuously record the temperature with a measuring device or gauge accurate to +/- 5 percent, calibrated once every 12 months.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]

[Devices subject to this condition : C5]

- 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. The operator shall continuously record the pressure with a measuring device or gauge accurate to +/- 5 percent, calibrated once every 12 months.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]

[Devices subject to this condition : C5]

- 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 |
|---------------------------|---|----------------|-------------------|
| NH3 emissions | District method 207.1 and 5.3 or EPA method | 1 hour | Outlet of the SCR |

FACILITY PERMIT TO OPERATE THUMS LONG BEACH CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

The test(s) shall be conducted at least quarterly during the first twelve months of operation and at least annually thereafter, when the equipment is operating at 80 percent load or greater. 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 and the results submitted to the AQMD 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 shall be conducted to demonstrate compliance with Rule 1303 concentration limit.

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

[Devices subject to this condition : C5]

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 |
|---------------------------|---|----------------------------------|-------------------|
| CO emissions | District method 100.1 | 1 hour | Outlet of the SCR |
| NOX emissions | District method 100.1 | 1 hour | Outlet of the SCR |
| PM emissions | Approved District method | District-approved averaging time | Outlet of the SCR |
| ROG emissions | Approved District method | 1 hour | Outlet of the SCR |
| SOX emissions | Approved District method | District-approved averaging time | Fuel Sample |
| NH3 emissions | District method 207.1 and 5.3 or EPA method | 1 hour | Outlet of the SCR |

FACILITY PERMIT TO OPERATE THUMS LONG BEACH CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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

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

The test shall be conducted in accordance with a AQMD approved source test protocol. 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 test commences. Test protocol shall include the proposed operating conditions of the turbine during the test, the identity of the testing lab, a statement from the testing lab certifying that it meets the criteria of R-304, and a description of all sampling and analytical procedures.

The test shall be conducted when this equipment is operating at loads of 100 percent, 75 percent, and 50 percent of maximum load.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 2005, 4-9-1999; RULE 2005, 4-20-2001]

[Devices subject to this condition : D2]

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 |
|---------------------------|---|----------------|-------------------|
| NOX emissions | District method 100.1 | 1 hour | Outlet of the SCR |
| NH3 emissions | District method 207.1 and 5.3 or EPA method | 1 hour | Outlet of the SCR |

FACILITY PERMIT TO OPERATE THUMS LONG BEACH CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

The test shall be conducted in accordance with a AQMD approved source test protocol. 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 test commences. Test protocol shall include the proposed operating conditions of the turbine during the test, the identity of the testing lab, a statement from the testing lab certifying that it meets the criteria of R-304, and a description of all sampling and analytical procedures.

The test shall be conducted after AQMD approval of the source test protocol, but no later than 180 days after initial commissioning of the SCR replacement catalyst. The AQMD shall be notified of the date and time of the test a least 10 days prior to the test.

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

The test shall be conducted to demonstrate compliance with the Rule 1303 and 2005 concentration limit.

The test shall be conducted when this equipment is operating at loads of 100 percent, 75 percent, and 50 percent of maximum load.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 2005, 4-9-1999; RULE 2005, 4-20-2001]

[Devices subject to this condition : C5]

D29.4 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 | 1 hour | Outlet of the SCR |

FACILITY PERMIT TO OPERATE THUMS LONG BEACH CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

The test(s) shall be conducted at least quarterly during the first twelve months after initial commissioning of the replacement SCR catalyst and at least annually thereafter, when the equipment is operating at 80 percent load or greater. 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 and the results submitted to the AQMD 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 shall be conducted to demonstrate compliance with Rule 1303 concentration limit.

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

[Devices subject to this condition : C5]

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 will convert the actual CO concentrations to mass emission rates (lbs/hr) and record the hourly emission rates on a continuous basis.

The CEMS shall be installed and operated, in accordance with an approved AQMD Rule 218 CEMS plan application.

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

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 218, 8-7-1981; RULE 218, 5-14-1999]

FACILITY PERMIT TO OPERATE THUMS LONG BEACH CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

[Devices subject to this condition : D2]

E. Equipment Operation/Construction Requirements

E57.1 The operator shall vent this equipment to the SCR and CO control catalysts whenever the turbine is in operation.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 2005, 4-9-1999; RULE 2005, 4-20-2001]

[Devices subject to this condition : D2]

E73.1 Notwithstanding the requirements of Section E conditions, the operator may, at his discretion, choose not to use ammonia injection if all of the following requirement(s) are met:

The SCR inlet exhaust temperature is 800 degrees F or less, not to exceed 1 hour during startups

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 2005, 4-9-1999; RULE 2005, 4-20-2001]

[Devices subject to this condition : C5]

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]

[Devices subject to this condition : D8]

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

Condition Number 12-3

Condition Number 12-2

Condition Number 195-3

FACILITY PERMIT TO OPERATE THUMS LONG BEACH CO

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

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]

[Devices subject to this condition : C5]

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

Condition Number 12-4

[RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]

[Devices subject to this condition : C5]

- E193.1 The operator shall construct, operate, and maintain this equipment according to the following specifications:

Comply with all mitigation measures stipulated in the final city of Long Beach Mitigated Negative Declaration and Application Summary Report, Application No. 00-088 that was prepared for this equipment.

[CA PRC CEQA, 11-23-1970]

[Devices subject to this condition : D2, C5, D8]

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 annual emissions increase for the first 12 months 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 start of operation, the facility holds sufficient RTCs in an amount equal to the annual emissions increase.

[RULE 2005, 4-9-1999; RULE 2005, 4-20-2001]

FACILITY PERMIT TO OPERATE THUMS LONG BEACH CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

[Devices subject to this condition : D2]

K. Record Keeping/Reporting

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 turbine and generator power output (MW) under which the test was conducted.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 2005, 4-9-1999; RULE 2005, 4-20-2001]

[Devices subject to this condition : D2, C5]

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

Natural Gas usage after the CEMS certification

[RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]

FACILITY PERMIT TO OPERATE THUMS LONG BEACH CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

[Devices subject to this condition : D2]