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| **Project Title:** | Magnolia Power Project-Compliance |
| **TN #:** | 265175 |
| **Document Title:** | Magnolia Power Permit Document |
| **Description:** | Facility Permit to Operate |
| **Filer:** | susan fleming |
| **Organization:** | California Energy Commission |
| **Submitter Role:** | Commission Staff |
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# FACILITY PERMIT TO OPERATE

## BURBANK CITY,BURBANK WATER & POWER,SCPPA
## 164 W MAGNOLIA BLVD
## BURBANK, CA 91502

## 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.

Wayne Nastri
Executive Officer

By_____
Jason Aspell
Deputy Executive Officer
Engineering and Permitting

# FACILITY PERMIT TO OPERATE
# BURBANK CITY,BURBANK WATER & POWER,SCPPA

## 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 3: INTERNAL COMBUSTION: POWER GENERATION** | | | | | |

* (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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| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions* And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 3: INTERNAL COMBUSTION: POWER GENERATION** | | | | | |
| GAS TURBINE, NO. 1, COMBINED CYCLE, NATURAL GAS, GENERAL ELECTRIC, MODEL PG7241FA, WITH DRY LOW NOX COMBUSTORS, DLN 2.6+, 2103 MMBTU/HR WITH A/N:<br><br>GENERATOR, 211.72 MW | D4 | C9 C10 | NOX: MAJOR SOURCE** | **CO**: 2 PPMV (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**: 2 PPMV (4) [**RULE 2005, 12-4-2015;** *RULE 2005, 11-5-2021*]; **NOX**: 15 PPMV (8) [**40CFR 63 Subpart KKKK, 4-20-2006**]; **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 (5C) [**RULE 475, 10-8-1976;** *RULE 475, 8-7-1978*]; **PM10**: 0.005 LBS/MMBTU (5) [**RULE 1303(b)(2)-Offset, 5-10-1996;** *RULE 1303(b)(2) -Offset, 12-6-2002*]; **PM10**: 0.006 LBS/MMBTU (5A) [**RULE 1303(b)(2)-Offset, 5-10-1996;** *RULE 1303(b)(2) -Offset, 12-6-2002*]; **SO2**: (9) [**40CFR 72 - Acid Rain Provisions, 11-24-1997**]; **SO2**: 0.06 LBS/MMBTU (8) [**40CFR 63 Subpart KKKK, 4-20-2006**]; **VOC**: 2 PPMV (4) [**RULE 1303(a)-BACT, 5-10-1996;** *RULE 1303(a) -BACT, 12-6-2002*] | A63.2, A99.1, A195.5, A195.6, A195.7, C1.5, C1.6, D29.3, D29.4, D82.1, D82.2, E57.1, E193.1, H23.1, I298.3, K67.2 |

* (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
# BURBANK CITY,BURBANK WATER & POWER,SCPPA

## 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 3: INTERNAL COMBUSTION: POWER GENERATION** | | | | | |
| GENERATOR, HEAT RECOVERY STEAM<br><br>STEAM TURBINE, STEAM, 142 MW | | | | | |

* (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
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# FACILITY PERMIT TO OPERATE
# BURBANK CITY,BURBANK WATER & POWER,SCPPA

## 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 3: INTERNAL COMBUSTION: POWER GENERATION** | | | | | |
| BURNER, DUCT, NATURAL GAS, 583 MMBTU/HR<br>A/N: | D6 | C9 C10 | NOX: MAJOR SOURCE** | **CO**: 2 PPMV (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**: 2 PPMV (4) [**RULE 2005, 5-6-2005**]; **NOX**: 15 PPMV (8A) [**40CFR 60 Subpart KKKK, 10-7-2020**]; **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*]; **PM10**: 0.005 LBS/MMBTU (5A) [**RULE 1303(b)(2)-Offset, 5-10-1996;** *RULE 1303(b)(2) -Offset, 12-6-2002*]; **PM10**: 0.006 LBS/MMBTU (5) [**RULE 1303(b)(2)-Offset, 5-10-1996;** *RULE 1303(b)(2) -Offset, 12-6-2002*]; **SO2**: 0.06 LBS/MMBTU (8) [**40CFR 60 Subpart KKKK, 10-7-2020**]; **VOC**: 2 PPMV (4) [**RULE 1303(a)(1)-BACT, 5-10-1996;** *RULE 1303(a)(1)-BACT, 12-6-2002*] | A63.2, A99.1, A195.5, A195.6, A195.7, A327.1, C1.1, C1.2, C1.3, D29.3, D29.4, D82.1, D82.2, E57.1, E193.1, I298.4, K67.2 |

* (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.)
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# 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
# BURBANK CITY,BURBANK WATER & POWER,SCPPA

## SECTION H: DEVICE ID INDEX

| Device Index For Section H | | | |
|---|---|---|---|
| **Device ID** | **Section H Page No.** | **Process** | **System** |
| D4 | 3 | 3 | 0 |
| D6 | 4 | 3 | 0 |

# FACILITY PERMIT TO OPERATE
# BURBANK CITY,BURBANK WATER & POWER,SCPPA

## 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]

F67.1 The facility operator shall comply with all terms and conditions specified below.

Continuous operation of monitoring systems not subject to a specific regulation or rule with provisions for monitor outages are not required when necessary calibration, maintenance or repair activities are performed in accordance with manufacturer's recommendation. The operator shall take all reasonable actions to minimize the time required to perform such activities. In no event shall any such activities exceed 96 consecutive hours for any one calibration, maintenance, or repair episode.

The operator shall notify the Executive Officer within 24 hours of the start of a calibration, maintenance, or repair activity, if the activity is expected to last more than 24 consecutive hours.

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

### DEVICE CONDITIONS

#### A. Emission Limits

# FACILITY PERMIT TO OPERATE
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## SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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

| CONTAMINANT | EMISSIONS LIMIT |
|---|---|
| CO | Less than or equal to 10765 LBS IN ANY ONE MONTH |
| PM10 | Less than or equal to 8293 LBS IN ANY ONE MONTH |
| VOC | Less than or equal to 4343 LBS IN ANY ONE MONTH |
| SOX | Less than or equal to 945 LBS IN ANY ONE MONTH |

The above limit applies once the equipment commences commercial operation after the recommissioning is complete.

The operator shall calculate the emission limit(s) by using the monthly fuel use data and the following emissions factors: PM10 with duct firing = 5.37 lb/MMscf, PM10 without duct firing = 5.20 lb/MMscf, VOC with duct firing = 2.69 lb/MMscf, VOC without duct firing = 2.69 lb/MMscf, VOC startups = 35 lb/event, VOC shutdown = 20 lb/event, SOx = 0.60 lb/MMscf.

The operator shall calculate the emission limit(s) for CO, after the CO CEMS certification based upon the readings from the AQMD 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.

For the purposes of this condition, the limit(s) shall be based on the total combined emissions from equipment D4 (Gas Turbine 1) and D6 (Duct Burner).

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

[Devices subject to this condition : D4, D6]

A99.1 The 0.005 lbs/MM Btu PM10 emission limit(s) shall only apply to gas turbine operation without the duct burner firing. The 0.006 lb/MMBtu emission limit shall only apply to gas turbine operation with the duct burner firing.

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

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

[Devices subject to this condition : D4, D6]

A195.5 The 2 PPMV NOX emission limit(s) is averaged over 1 hour at 15 percent oxygen, dry.

The 2.0 PPM NOX emission limit shall not apply during startup, recommissioning, and shutdown periods. Startup time shall not exceed 6 hours per startup per day. NOx emissions during the 6 hours after commencement of a start up shall not exceed 518 lbs. Shutdown time shall not exceed 30 minutes per shutdown per day. NOx emissions during the 30 minutes prior to the conclusion of a shutdown shall not exceed 29 lbs. The operator shall limit the number of start ups to 5 per month.

The operator shall keep records of the date, time and duration as well as minute by minute data (NOx, CO and O2 concentration and fuel flow rate at a minimum) of each startup and shutdown

Recommissioning is a one time event that shall not exceed 201 turbine operating hours and 271 mmscf of fuel use. Once started, the recommissioning shall be completed within 60 days, unless an extension is granted. by the Executive Officer.

The NOx emissions during recommissioning shall not exceed 3146 total lbs as determined through the use of the certified CEMS. The operator shall keep records of the date and time the turbine is operated during recommissioning, the duration of the operation, the fuel use and the NOx and CO emissions.

The operator shall notify AQMD prior to the start of the recommissioning operation and at the conclusion of the recommissioning operation

[**RULE 2005, 12-4-2015;** RULE 2005, 11-5-2021]

[Devices subject to this condition : D4, D6]

# FACILITY PERMIT TO OPERATE
# BURBANK CITY,BURBANK WATER & POWER,SCPPA

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

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

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

The 2.0 PPM CO emission limit shall not apply during startup, recommissioning, and shutdown periods. Startup time shall not exceed 6 hours per startup per day. CO emissions during the 6 hours after commencement of a start up shall not exceed 588 lbs. Shutdown time shall not exceed 30 minutes per shutdown per day. CO emissions during the 30 minutes prior to the conclusion of a shutdown shall not exceed 141 lbs. The operator shall limit the number of start ups to 5 per month.

The operator shall keep records of the date, time and duration as well as minute by minute data (NOx, CO and O2 concentration and fuel flow rate at a minimum) of each startup and shutdown

Recommissioning is a one time event that shall not exceed 201 turbine operating hours and 271 mmscf of fuel use. Once started, the recommissioning shall be completed within 60 days, unless an extension is granted by the Executive Officer.

The CO emissions during recommissioning shall not exceed 8863 lbs total as determined by the certified CEMS. The operator shall keep records of the date and time the turbine is operated during recommissioning, the duration of the operation, the fuel use, and the NOx and CO emissions.

The operator shall notify AQMD prior to the start of the recommissioning operation and at the conclusion of the recommissioning operation.

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

[Devices subject to this condition : D4, D6]

A195.7 The 2 PPMV VOC emission limit(s) is averaged over 1 hour at 15 percent, dry.

This emission limit shall not apply during startup, recommissioning, and shutdown periods.

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

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

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

[Devices subject to this condition : D4, D6]

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 : D6]

### C. Throughput or Operating Parameter Limits

C1.1 The operator shall limit the fuel usage to no more than 555 MM cubic feet per year.

[**RULE 1303(b)(1)-Modeling, 5-10-1996;** RULE 1303(b)(1)-Modeling, 12-6-2002; **RULE 2005, 12-4-2015;** RULE 2005, 11-5-2021]

[Devices subject to this condition : D6]

C1.2 The operator shall limit the fuel usage to no more than 6.66 MM cubic feet per day.

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

[Devices subject to this condition : D6]

C1.3 The operator shall limit the fuel usage to no more than 133 MM cubic feet per month.

[**RULE 1303(a)(1)-BACT, 5-10-1996;** RULE 1303(a)(1)-BACT, 12-6-2002; **RULE 2005, 12-4-2015;** RULE 2005, 11-5-2021]

[Devices subject to this condition : D6]

# FACILITY PERMIT TO OPERATE
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## SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

C1.5 The operator shall limit the fuel usage to no more than 14939 MM cubic feet per year.

For the purpose of this condition, the limit shall be based on the total combined fuel usage from equipment D4 (Gas Turbine 1) and D6 (Duct Burner).

[**RULE 1303(b)(1)-Modeling, 5-10-1996;** RULE 1303(b)(1)-Modeling, 12-6-2002; **RULE 2005, 12-4-2015;** RULE 2005, 11-5-2021]

[Devices subject to this condition : D4]

C1.6 The operator shall limit the operating time to no more than 8508 hour(s) in any one year.

[**RULE 1303(b)(1)-Modeling, 5-10-1996;** RULE 1303(b)(1)-Modeling, 12-6-2002; **RULE 2005, 12-4-2015;** RULE 2005, 11-5-2021]

[Devices subject to this condition : D4]

### D. Monitoring/Testing Requirements

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 | AQMD Laboratory Method 307-91 | District-approved averaging time | Fuel Sample |
| ROG emissions | Approved District method | 1 hour | Outlet of the SCR |
| PM emissions | EPA Method 201A/District Method 5.1 | District-approved averaging time | Outlet of the SCR |

# FACILITY PERMIT TO OPERATE
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## SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

The test shall be conducted to demonstrate compliance with the Rule 1303 concentration and/or monthly emissions limit.

The test shall be conducted at least once every 3 yrs. SCAQMD shall be notified of the date & time of the test at least 10 days prior to the test. The test shall be conducted 1) when the turbine and duct burner are operating simultaneously at 100% of max heat input, or as close as practicable, but not less than 90% of max heat input and 2) when the turbine is operating alone at 100% of max heat input, or as close as practicable, but not less than 90% of max heat input.

For natural gas fired turbines only, an alternative to SCAQMD Method 25.3 for the purpose of demonstrating compliance with BACT may be the following:

a) Triplicate stack gas samples extracted directly into Summa canisters, maintaining a final canister pressure between 400-500 mm Hg absolute,

b) Pressurization of the Summa canisters with zero gas analyzed/certified to less than 0.05 ppmv total hydrocarbons as carbon, and

c) Analysis of Summa canisters per unmodified EPA Method TO-12 (with pre-concentration) or the canister analysis portion of SCAQMD Method 25.3 with a minimum detection limit of 0.3 ppmv or less and reported to two significant figures. The temperature of the Summa canisters when extracting the samples for analysis shall not be below 70 F

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

Source test results shall be submitted to the SCAQMD 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

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

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) and duct burner input (mmbtu/hr) under which the test was conducted.

[**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, D6]

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 |
|---|---|---|---|
| VOC emissions | Approved District method | 1 hour | Outlet of the SCR |
| PM10 emissions | Approved District method | District-approved averaging time | Outlet of the SCR |
| NH3 emissions | District method 207.1 | 1 hour | Outlet of the SCR |

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

The test shall be conducted within 180 days after the recommissioning, unless an extension is approved by the Executive Officer..

The source test is to demonstrate compliance with the 2 ppmv VOC and 5 ppmv NH3 limits, and applicable PM10 emission limits.

The source test shall be conducted at maximum achievable equipment load, with and without duct burner firing

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. The combined gas turbine and steam turbine generating output in MW shall also be recorded if applicable

The test shall be conducted in accordance with a District approved source test protocol

For gas turbines only the VOC test shall use the following method: a) Stack gas samples are extracted into Summa canisters, maintaining a final canister pressure between 400-500 mm Hg absolute, b) Pressurization of Summa canisters is done with zero gas analyzed/certified to having less than 0.05 ppmv total hydrocarbons as carbon, and c) Analysis of Summa canisters is per EPA Method TO-12 (with pre-concentration) and the canisters temperature when extracting samples for analysis is not below 70 degrees F.

The use of this alternative VOC test method is solely for the determination of compliance with the VOC BACT level of 2.0 ppmv calculated as carbon for natural gas fired turbines. The test results must be reported with two significant digits

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

[**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]

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

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

[Devices subject to this condition : D4, D6]

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

CO concentration in ppmv

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

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) using the equation below, and record the hourly emission rates on a continuous basis.

CO Emission Rate, lbs/hr = K*Cco*Fd[20.9/(20.9%-%O2 d)][(Qg*HHV)/10E6], where

1. K = 7.267*10-8 (lbs/scf)/ppm
2. Cco = Average of 4 consecutive 15 min. average CO concentrations, ppm
3. Fd = 8710 dscf/MMBTU natural gas
4. %O2, d = Hourly average % by volume O2 dry, corresponding to Cco
5. Qg = Fuel gas usage during the hour, scf/hr
6. HHV = Gross high heating value of the fuel gas, BTU/scf

The CEMS will convert the actual NOx 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 AQMD approved Rule 218 CEMS plan application.

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[**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, D6]

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.

[**RULE 2012, 2-5-2016;** RULE 2012, 11-3-2023; **40CFR 72 - Acid Rain Provisions, 11-24-1997**]

[Devices subject to this condition : D4, D6]

### E. Equipment Operation/Construction Requirements

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

Ammonia injection shall commence once the exhaust temperature into the SCR catalyst has reached 450 degrees F.

The operator may choose not to use ammonia injection during a start up or shutdown if the SCR inlet temperature is less than 450 deg F, not to exceed 6 hours during a start up and not to exceed 30 minutes during a shutown

[**RULE 1303(a)(1)-BACT, 5-10-1996;** RULE 1303(a)(1)-BACT, 12-6-2002; **RULE 2005, 12-4-2015;** RULE 2005, 11-5-2021; RULE 429.2, 1-7-2022]

[Devices subject to this condition : D4, D6]

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

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

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

In accordance with all mitigation measures stipulated in the Final California Energy Commission Certificate for 01-AFC-6 prepared for this project.

[CA PRC CEQA, 11-23-1970]

[Devices subject to this condition : D4, D6]

### H. Applicable Rules

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

| Contaminant | Rule | Rule/Subpart |
|---|---|---|
| Sulfur compounds | District Rule | 431.1 |

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

[Devices subject to this condition : D4]

### I. Administrative

I298.3 This equipment shall not be operated unless the facility holds 134567 pounds of NOx RTCs in its allocation account to offset the annual emissions increase for the first year of operation. The RTCs held to satisfy the first year of operation portion of this condition may be transferred only after one year from the initial start 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 134738 pounds of NOx RTCs valid during that compliance year. RTCs held to satisfy the compliance year portion of this condition may be transferred only after the compliance year for which the RTCs are held. If the initial or annual hold amount is partially satisfied by holding RTCs that expire midway through the hold period, those RTCs may be transferred upon their respective expiration dates. This hold amount is in addition to any other amount of RTCs required to be held under other condition(s) stated in this permit.

# FACILITY PERMIT TO OPERATE
# BURBANK CITY,BURBANK WATER & POWER,SCPPA

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

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

[**RULE 2005, 6-3-2011**]

[Devices subject to this condition : D4]

I298.4 This equipment shall not be operated unless the facility holds 3651 pounds of NOx RTCs in its allocation account to offset the annual emissions increase for the first year of operation. The RTCs held to satisfy the first year of operation portion of this condition may be transferred only after one year from the initial start 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 3651 pounds of NOx RTCs valid during that compliance year. RTCs held to satisfy the compliance year portion of this condition may be transferred only after the compliance year for which the RTCs are held. If the initial or annual hold amount is partially satisfied by holding RTCs that expire midway through the hold period, those RTCs may be transferred upon their respective expiration dates. This hold amount is in addition to any other amount of RTCs required to be held under other condition(s) stated in this permit.

[**RULE 2005, 12-4-2015;** RULE 2005, 11-5-2021]

[Devices subject to this condition : D6]

### K. Record Keeping/Reporting

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

Natural gas fuel use, hours of operation, date and time of each start up and shutdown, and CEMS minute data during the 6 hours that includes a start up and during the 30 minutes that includes a shutdown

[**RULE 1303(b)(2)-Offset, 5-10-1996;** RULE 1303(b)(2)-Offset, 12-6-2002; **RULE 2012, 2-5-2016;** RULE 2012, 11-3-2023]

[Devices subject to this condition : D4, D6]