



South Coast Air Quality Management District

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

February 16, 2011

Mr. Gerardo Rios
U.S. EPA, Region IX
75 Hawthorne Street
San Francisco, CA 94105

Re: Los Angeles Department of Water and Power Valley Generating Station (ID 800193) –
Title V Permit Revision

Dear Mr. Rios:

The Los Angeles Department of Water and Power (LADWP) operates the Valley Generating Station located in Sun Valley, CA. It has proposed to revise its Title V permit under Application No. 518039 by the following actions.

Application	Device #	Section #	Proposed Action
518040	C132	H	Replace SCR catalyst for Gas Turbine No.5

This proposed permit revision is considered as a “minor permit revision” to their Title V permit. Attached for your review are the permit evaluation and proposed Section H. With your receipt of the proposed Section H today, we will note that the EPA 45-day review period begins on February 16, 2011.

If you have any questions or need additional information regarding the proposed permit revision, please call Li Chen at (909) 396-2426.

Very truly yours,

Brian L. Yeh
Senior Manager
Mechanical, Chemical, and Public Services

cc: Bruce Moore, LADWP

BLY:AYL:JTY:LC
Attachments

FACILITY PERMIT TO OPERATE

**LA CITY, DWP VALLEY GENERATING STATION
11801 SHELDON ST
SUN VALLEY, CA 91352**

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 LA CITY, DWP VALLEY GENERATING STATION

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					
System 1: Power Generation					

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

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

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 3- INTERNAL COMBUSTION					
SELECTIVE CATALYTIC REDUCTION, NO. 5, HALDOR TOPSOE, MODEL: DNX629, WITH 777 CUBIC FEET OF TOTAL CATALYST VOLUME, WIDTH: 9 FT 1 IN; HEIGHT: 1 FT 1 IN; LENGTH: 48 FT 2 IN WITH A/N: AMMONIA INJECTION	C132	D130		NH3: 5 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]	A195.3, D12.4, D12.5, D12.6, D29.1, E179.1, E179.2, E193.1, E193.6
CO OXIDATION CATALYST, NO. 5, ENGELHARD, WITH 835 CUBIC FEET OF TOTAL CATALYST VOLUME A/N:	C134	D130			
STACK, TURBINE NO. 5 A/N: 477846 Permit to Construct Issued: 11/18/08	S135	D130			

- * (1) (1A) (1B) Denotes RECLAIM emission factor
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (3) Denotes RECLAIM concentration limit
- (4) Denotes BACT emission limit
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 3: INTERNAL COMBUSTION					
GAS TURBINE, UNIT NO. 6, DIESEL FUEL, NATURAL GAS, GENERAL ELECTRIC, MODEL 7241FA, COMBINED CYCLE, WITH LOW NITROGEN DIESEL FUEL, WITH LOW NOX BURNER, WATER INJECTION, 1865 MMBTU/HR WITH A/N: 491686 Permit to Construct Issued: 11/13/09	D143	C148 C149 S151	NOX: MAJOR SOURCE**	CO: 6 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: 2.5 PPMV (4) [RULE 1703 - PSD Analysis, 10-7-1988; RULE 2005, 5-6-2005]; NOX: 19.32 LBS/HR (5) [RULE 1703(a)(3) PSD Analysis, 10-7-1988]; NOX: 26 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; NOX: 42 PPMV DIESEL (4) [RULE 1703 - PSD Analysis, 10-7-1988; RULE 2005, 5-6-2005]; NOX: 109.4 PPMV NATURAL GAS (8) [40CFR 60 Subpart GG, 3-6-1981]; NOX: 114.7 PPMV DIESEL (8) [40CFR 60 Subpart GG, 3-6-1981]; PM: 0.01 GRAINS/SCF (5B) [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]; SO2: (9) [40CFR 72 - Acid Rain Provisions, 11-24-1997]; SOX: 150 PPMV (8) [40CFR 60 Subpart GG, 3-6-1981]; VOC: 2 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996];	A63.3, A99.5, A99.6, A99.7, A195.4, A195.5, A195.6, A327.1, A433.1, B75.3, D29.3, D29.4, D29.6, D29.8, D82.4, D82.5, D371.2, D372.1, E57.1, E193.3, E193.4, E193.5, I296.2, K40.2, K67.6

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 (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.

FACILITY PERMIT TO OPERATE LA CITY, DWP VALLEY GENERATING STATION

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					
GENERATOR, 178 MW (MAX GROSS OUTPUT AT 22 DEG F) GENERATOR, HEAT RECOVERY STEAM STEAM TURBINE, STEAM, COMMON WITH GAS TURBINE NO. 7, 223.5 MW				RULE 1303(a)(1)-BACT, 12-6-2002]	

* (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
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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					
BURNER, DUCT, 183.5 MMBTUH DERATED TO 125 MMBTUH, NATURAL GAS, LOCATED IN THE HRSG OF TURBINE NO. 6 A/N: 491686 Permit to Construct Issued: 11/13/09	D147		NOX: MAJOR SOURCE**	CO: 6 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: 2.5 PPMV (4) [RULE 1703 - PSD Analysis, 10-7-1988; RULE 2005, 5-6-2005]; NOX: 19.32 LBS/HR (5) [RULE 1703 - PSD Analysis, 10-7-1988]; NOX: 109.4 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: 11 LBS/HR (5B) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; PM10: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; SO2: (9) [40CFR 72 - Acid Rain Provisions, 11-24-1997]; SOX: 150 PPMV (8) [40CFR 60 Subpart GG, 3-6-1981]; VOC: 2 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1) -BACT, 12-6-2002]	A63.3, A99.5, A99.6, A195.4, A195.5, A195.6, A327.1, A433.1, B75.3, D29.3, D29.4, D29.6, D29.8, D82.4, D82.5, D371.2, D372.1, E57.1, E193.3, E193.4, E193.5, I296.2, K40.2, K67.6

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SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY 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					
CO OXIDATION CATALYST, SERVING TURBINE NO. 6, ENGELHARD, HEIGHT 61 FT X LENGTH 26 FT X WIDTH 4 FT; WITH 6344 CU FT OF CATALYST VOLUME A/N: 491687 Permit to Construct Issued: 11/13/09	C148	D143			E193.4, E193.5
SELECTIVE CATALYTIC REDUCTION, SERVING TURBINE NO. 6, ENGELHARD, TITANIUM-VANADIUM, WITH 7930 CU FT OF CATALYST VOLUME, WIDTH: 5 FT ; HEIGHT: 61 FT ; LENGTH: 26 FT WITH A/N: 491687 Permit to Construct Issued: 11/13/09 AMMONIA INJECTION, INJECTION GRID	C149	D143		NH3: 5 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]	A195.12, D12.4, D12.5, D12.7, D29.5, E73.2, E179.3, E179.4, E193.3, E193.4, E193.5
STACK, SERVING TURBINE NO. 6, HEIGHT: 140 FT , DIAMETER: 19 FT A/N: 491686 Permit to Construct Issued: 11/13/09	S151	D143			

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GAS TURBINE, UNIT NO. 7, DIESEL FUEL, NATURAL GAS, GENERAL ELECTRIC, MODEL 7241FA, COMBINED CYCLE, WITH LOW NITROGEN DIESEL FUEL, WITH LOW NOX BURNER, WATER INJECTION, 1865 MMBTU/HR WITH A/N: 491688 Permit to Construct Issued: 11/13/09	D152	C156 C157 S159	NOX: MAJOR SOURCE**	CO: 6 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]; CO: 2000 PPMV (1) [RULE 407, 4-2-1982]; NOX: 2.5 PPMV (4) [RULE 1703 - PSD Analysis, 10-7-1988; RULE 2005, 5-6-2005]; NOX: 19.32 LBS/HR (5) [RULE 1703 - PSD Analysis, 10-7-1988]; NOX: 26 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; NOX: 42 PPMV DIESEL (4) [RULE 1703 - PSD Analysis, 10-7-1988; RULE 2005, 5-6-2005]; NOX: 109.4 PPMV NATURAL GAS (8) [40CFR 60 Subpart GG, 3-6-1981]; NOX: 114.7 PPMV DIESEL (8) [40CFR 60 Subpart GG, 3-6-1981]; PM: 0.01 GRAINS/SCF (5B) [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 (5A) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; SO2: (9) [40CFR 72 - Acid Rain Provisions, 11-24-1997]; SOX: 150 PPMV (8) [40CFR 60 Subpart GG, 3-6-1981]; VOC: 2 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996];	A63.5, A99.5, A99.6, A99.7, A195.4, A195.5, A195.6, A195.6, A327.1, A433.1, B75.3, D29.3, D29.4, D29.6, D29.8, D82.4, D82.5, D371.2, D372.1, E57.1, E193.3, E193.4, E193.5, I296.2, K40.2, K67.6

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Process 3: INTERNAL COMBUSTION					
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 3: INTERNAL COMBUSTION					
BURNER, DUCT, 183.5 MMBTUH DERATED TO 125 MMBTUH, NATURAL GAS, LOCATED IN THE HRSG OF TURBINE NO. 7 A/N: 491688 Permit to Construct Issued: 11/13/09	D160		NOX: MAJOR SOURCE**	CO: 6 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: 2.5 PPMV (4) [RULE 1703 - PSD Analysis, 10-7-1988; RULE 2005, 5-6-2005]; NOX: 19.32 LBS/HR (5) [RULE 1703 - PSD Analysis, 10-7-1988]; NOX: 109.4 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]; SO2: (9) [40CFR 72 - Acid Rain Provisions, 11-24-1997]; SOX: 150 PPMV (8) [40CFR 60 Subpart GG, 3-6-1981]; VOC: 2 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]	A63.5, A99.5, A99.6, A195.4, A195.5, A195.6, A327.1, A433.1, B75.3, D29.3, D29.4, D29.6, D29.8, D82.4, D82.5, D371.2, D372.1, E57.1, E193.3, E193.4, E193.5, I296.2, K40.2, K67.6

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 3: INTERNAL COMBUSTION					
CO OXIDATION CATALYST, SERVING TURBINE NO. 7, ENGELHARD, HEIGHT 61 FT X LENGTH 26 FT X WIDTH 4 FT, WITH 6344 CU FT OF CATALYST VOLUME A/N: 374499 Permit to Construct Issued: 02/01/02	C156	D152			E193.4, E193.5
SELECTIVE CATALYTIC REDUCTION, SERVING TURBINE NO. 7, ENGELHARD, TITANIUM-VANADIUM, 7930 CU FT CATALYST VOLUME, WIDTH: 5 FT ; HEIGHT: 61 FT ; LENGTH: 26 FT WITH A/N: 374499 Permit to Construct Issued: 02/01/02 AMMONIA INJECTION, INJECTION GRID	C157	D152		NH3: 5 PPMV NATURAL GAS (4) [RULE 1303(a)(1) -BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]	A195.12, D12.4, D12.5, D12.7, D29.5, E73.2, E179.3, E179.4, E193.3, E193.4, E193.5
STACK, SERVING TURBINE NO. 7, HEIGHT: 140 FT ; DIAMETER: 19 FT A/N: 491688 Permit to Construct Issued: 11/13/09	S159	D152			
Process 11: AMMONIA STORAGE					
STORAGE TANK, NO.1, AQUEOUS AMMONIA 29% SOLUTION, WITH A VAPOR RETURN LINE, 20000 GALS A/N: 374504 Permit to Construct Issued: 05/18/01	D137	C138			C157.1, E57.2, E57.6

- * (1) (1A) (1B) Denotes RECLAIM emission factor
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Process 11: AMMONIA STORAGE					
SCRUBBER, PACKED BED, WITH POLYPROPYLENE PACKING AND MIST ELIMNATOR, SERVING TANK NO. 1, HEIGHT: 8 FT 4 IN; DIAMETER: 2 FT A/N: 374504 Permit to Construct Issued: 05/18/01	C138	D137			C157.1
STORAGE TANK, FIXED ROOF, NO. 2, AQUEOUS AMMONIA 29%, WITH A VAPOR RETURN LINE, TRANSFER PUMP, AND PRV SET AT 50 PSIG, 20000 GALS; DIAMETER: 11 FT 11 IN; LENGTH: 30 FT 9 IN A/N: 374500 Permit to Construct Issued: 02/01/02	D139	C140			C157.1, E57.5, E193.3
SCRUBBER, WATER, SERVING TANK NO. 2 A/N: 374500 Permit to Construct Issued: 02/01/02	C140	D139			
STORAGE TANK, FIXED ROOF, NO. 3, AQUEOUS AMMONIA 29% SOLUTION, WITH A VAPOR RETURN LINE, A TRANSFER PUMP, AND A PRV SET AT 50 PSIG, 20000 GALS; DIAMETER: 11 FT 11 IN; LENGTH: 30 FT 9 IN A/N: 374501 Permit to Construct Issued: 02/01/02	D141	C142			C157.1, E57.5, E193.3
SCRUBBER, WATER, SERVING TANK NO. 3 A/N: 374501 Permit to Construct Issued: 02/01/02	C142	D141			

- * (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
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**FACILITY PERMIT TO OPERATE
LA CITY, DWP VALLEY GENERATING STATION**

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
 LA CITY, DWP VALLEY GENERATING STATION**

SECTION H: DEVICE ID INDEX

Device Index For Section H			
Device ID	Section H Page No.	Process	System
D130	2	3	1
C132	3	3	1
C134	3	3	1
S135	3	3	1
D137	11	11	0
C138	12	11	0
D139	12	11	0
C140	12	11	0
D141	12	11	0
C142	12	11	0
D143	5	3	1
D147	6	3	1
C148	7	3	1
C149	7	3	1
S151	7	3	1
D152	9	3	1
C156	11	3	1
C157	11	3	1
S159	11	3	1
D160	10	3	1

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

Device ID	Boiler ID	Contaminant	Tons in any year
1	Boiler No. 1	SO2	121
5	Boiler No. 2	SO2	140
9	Boiler No. 3	SO2	388
13	Boiler No. 4	SO2	349

a). The allowance allocation(s) shall apply to calendar years 2000 through 2009.

b). The number of allowances allocated to Phase II affected units by U.S. EPA may change in a 1998 revision to 40CFR73 Tables 2,3, and 4. In addition, the number of allowances actually held by an affected source in a unit account may differ from the number allocated by U.S. EPA. Neither of the aforementioned conditions necessitate a revision to the unit SO2 allowance allocations identified in this permit (see 40 CFR 72.84)

[40CFR 73 Subpart B, 1-11-1993]

F24.1 Accidental release prevention requirements of Section 112(r)(7):

a). The operator shall comply with the accidental release prevention requirements pursuant to 40 CFR Part 68 and shall submit to the Executive Officer, as a part of an annual compliance certification, a statement that certifies compliance with all of the requirements of 40 CFR Part 68, including the registration and submission of a risk management plan (RMP).

b). The operator shall submit any additional relevant information requested by the Executive Officer or designated agency.

[40CFR 68 - Accidental Release Prevention, 5-24-1996]

PROCESS CONDITIONS

P1.1 The operator shall limit the throughput to no more than 210600 gallon(s) per day.

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

For the purpose of this condition, throughput shall be defined as the treatment of waste-oil mixtures.

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

[Processes subject to this condition : 8]

DEVICE CONDITIONS

A. Emission Limits

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

CONTAMINANT	EMISSIONS LIMIT
CO	Less than or equal to 2100 LBS IN ANY ONE MONTH
VOC	Less than or equal to 570 LBS IN ANY ONE MONTH
PM10	Less than or equal to 1320 LBS IN ANY ONE MONTH
SOX	Less than or equal to 180 LBS IN ANY ONE MONTH

The operator shall calculate the emission limit(s) by using monthly fuel use data, and the following emission factors: Natural Gas: VOC - 2.88 lbs/mmscf, PM10 - 6.93 lbs/mmscf, and SOx - 0.83 lbs/mmscf. Diesel: VOC - 1.11 lbs/1000 gals, PM10 - 1.67 lbs/1000 gals, and SOx - 7.02 lbs/1000 gals.

The operator shall calculate CO emissions after the CO CEMS certification based upon 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. The CO CEMS is not required to be certified for diesel readiness test. During diesel readiness testing, CO emissions shall be calculated using the fuel use data and a 13.19 lbs/Mgal emission factor.

[**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 : D130]

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

CONTAMINANT	EMISSIONS LIMIT
CO	Less than 25000.3 LBS IN ANY ONE MONTH
PM10	Less than 9901.5 LBS IN ANY ONE MONTH
VOC	Less than 4127.1 LBS IN ANY ONE MONTH
SOX	Less than 363.3 LBS IN ANY ONE MONTH

The operator shall calculate the emission limit(s) by using calendar monthly fuel use data and the following emission factors: Natural Gas: PM10 8.04 lbs/MMscf , VOC 3.04 lbs/MMscf, and SOx 0.29 lbs/mmscf. Diesel Fuel: PM10 1.67 lbs/Mgal , VOC 0.43 lbs/Mgal, and SOx 0.21 lbs/Mgal

The operator shall calculate the emission limit(s) for CO after the CO CEMS certification based upon 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. During diesel readiness testing, the CO shall be calculated using the fuel use data and a 24.2 lbs/Mgal emission factor

For the purposes of this condition, the limit(s) shall be based on the total combined emissions from gas turbine No. 6 and its associated duct burner during any calendar month after the initial commissioning period.

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

[Devices subject to this condition : D143, D147]

A63.5 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
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FACILITY PERMIT TO OPERATE LA CITY, DWP VALLEY GENERATING STATION

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

CO	Less than 25000.3 LBS IN ANY ONE MONTH
PM10	Less than 9901.5 LBS IN ANY ONE MONTH
VOC	Less than 4127.1 LBS IN ANY ONE MONTH
SOX	Less than 363.3 LBS IN ANY ONE MONTH

The operator shall calculate the emission limit(s) by using calendar monthly fuel use data and the following emission factors: Natural Gas: PM10 8.04 lbs/MMscf , VOC 3.04 lbs/MMscf, and SOx 0.29 lbs/mmscf. Diesel Fuel: PM10 1.67 lbs/Mgal , VOC 0.43 lbs/Mgal, and SOx 0.21 lbs/Mgal

The operator shall calculate the emission limit(s) for CO after the CO CEMS certification based upon 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. During diesel readiness testing, the CO shall be calculated using the fuel use data and a 24.2 lbs/Mgal emission factor

For the purposes of this condition, the limit(s) shall be based on the total combined emissions from gas turbine No. 7 and its associated duct burner during any calendar month after the initial commissioning period.

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

[Devices subject to this condition : D152, D160]

- A99.1 The 5 PPM NOX emission limit(s) shall not apply during startup, shutdown, and diesel readiness tests. Startup time shall not exceed 1 hour per occurrence and shutdown time shall not exceed 12 minutes per occurrence. The 5.0 ppmv NOx emission limit shall apply at all other operating times.

[RULE 2005, 5-6-2005]

[Devices subject to this condition : D130]

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

A99.2 The 6 PPM CO emission limit(s) shall not apply during startup, shutdown, and diesel readiness tests. Startup time shall not exceed 1 hour per occurrence and shutdown time shall not exceed 12 minutes per occurrence. The 6.0 ppmv CO emission limit shall apply at all other operating times.

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

[Devices subject to this condition : D130]

A99.4 The 34 Lbs/hr NOX emission limit(s) shall only apply during turbine start-ups.

[RULE 2005, 5-6-2005]

[Devices subject to this condition : D130]

A99.5 The 2.5 PPM NOX emission limit(s) shall not apply during turbine commissioning, startup, diesel readiness testing, and shutdown. Shutdown shall not exceed 30 minutes.

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

For the purposes of this condition, cold start up shall be defined as when the gas turbine is in the combined cycle mode and the steam stop valve is open, a start up which occurs after the steam turbine has been shutdown for 72 hours or more. All other startups are considered non-cold startups. The beginning of start up occurs at initial fire in the combustor and the end of start up occurs when the BACT levels are achieved, or the combustion turbine is shut down. No more than one turbine shall be in start-up mode at any one time.

For the purposes of this condition, steam turbine shutdown period shall be defined as the number of hours between the closing of the steam stop valve following shutdown of the steam turbine and the reopening of the steam stop valve after combustion has been established in either combustion turbine. The operator shall keep records of the date and time of the steam stop valve opening and closing, and make these records available to AQMD personnel upon request.

For the purposes of this condition, a shutdown event shall be defined as the period beginning with the inability to comply with the 2.5 ppmv limit after initiation of the combustion turbine shutdown sequence and ending either with 1) the cessation of firing of the combustion turbine engine, or 2) when the unit ramps back up after an aborted shutdown, the attainment of minimum load. During the shutdown NOx emissions shall not exceed 70 lbs total per shutdown. The number of gas turbine shutdown events shall not exceed 30 shutdowns per month, and 294 startups per year per turbine.

[RULE 1703 - PSD Analysis, 10-7-1988; RULE 2005, 5-6-2005]

[Devices subject to this condition : D143, D147, D152, D160]

A99.6 The 6.0 PPM CO emission limit(s) shall not apply during turbine commissioning, startup, diesel readiness testing, and shutdown. Shutdown shall not exceed 30 minutes.

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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:

For the purposes of this condition, cold start up shall be defined as , when the gas turbine is in the combined cycle mode and the steam stop valve is open, a start up which occurs after the steam turbine has been shutdown for 72 hours or more. All other startups are considered non-cold startups. The beginning of start up occurs at initial fire in the combustor and the end of start up occurs when the BACT levels are achieved, or the combustion turbine is shut down. No more than one turbine shall be in start-up mode at any one time.

For the purposes of this condition, steam turbine shutdown period shall be defined as the number of hours between the closing of the steam stop valve following shutdown of the steam turbine and the reopening of the steam stop valve after combustion has been established in either combustion turbine. The operator shall keep records of the date and time of the steam stop valve opening and closing, and make these records available to AQMD personnel upon request.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1703 - PSD Analysis, 10-7-1988]

[Devices subject to this condition : D143, D147, D152, D160]

A99.7 The 42.0 PPM NOX emission limit(s) shall only apply during the diesel readiness tests.

[RULE 1703 - PSD Analysis, 10-7-1988; RULE 2005, 5-6-2005]

[Devices subject to this condition : D143, D152]

A195.1 The 5 PPM NOX emission limit(s) is averaged over 3 hours at 15 percent oxygen, dry.

[RULE 2005, 5-6-2005]

[Devices subject to this condition : D130]

A195.2 The 6 PPM CO emission limit(s) is averaged over 3 hours at 15 percent oxygen, dry.

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

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

[Devices subject to this condition : D130]

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

The operator shall use the method above 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 determination without corroborative data using an approved reference method for the determination of ammonia.

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

[Devices subject to this condition : C132]

A195.4 The 2.5 PPMV NO_x emission limit(s) is averaged over 60 minutes at 15 percent oxygen, dry.

[**RULE 1703 - PSD Analysis, 10-7-1988; RULE 2005, 5-6-2005**]

[Devices subject to this condition : D143, D147, D152, D160]

A195.5 The 6.0 PPMV CO emission limit(s) is averaged over 3 hours at 15 percent oxygen, dry.

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

[Devices subject to this condition : D143, D147, D152, D160]

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

A195.6 The 2.0 PPMV VOC emission limit(s) is averaged over 60 minutes at 15 percent oxygen, dry. The limit does not apply during the diesel readiness tests.

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

[Devices subject to this condition : D130, D143, D147, D152, D160]

A195.12 The 5 PPM NH₃ emission limit(s) is averaged over 60 mins at 15 percent O₂ dry. The operator shall calculate and continuously record the NH₃ slip concentration using: $NH_3(ppmv)=[a-b*c/1E6]*1E6/b$, a=NH₃ injection rate (lb/hr)/17(lb/lbmole), b=dry exhaust gas flow rate(lb/hr)/29(lb/lbmole), and c=change in measured NO_x across the SCR (ppmvd at 15 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 every 12 months.

The operator shall use the method above 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 determination without corroborative data using an approved reference method for the determination of ammonia.

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

[Devices subject to this condition : C149, C157]

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 : D130, D143, D147, D152, D160]

A433.1 The operator shall comply at all times with the 2.5 ppm 1 hour BACT limit for NO_x, except as specified in Condition A99.5, and for the following operating scenarios:

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

Operating Scenario	Hourly Maximum Emission Limit	Operational Limit
Cold Start	225 lbs/hr	NOx emissions not to exceed 600 lbs total per cold start. Cold start not to exceed 360 minutes total, 4 starts per month, and 48 starts per year combined total for both turbines
Non-cold Start	170 lbs/hr	NOx emissions not to exceed 300 lbs total per non cold start. Non cold start not to exceed 180 minutes total, 28 starts per month, and 280 starts per year per turbine

[RULE 1703 - PSD Analysis, 10-7-1988; RULE 2005, 5-6-2005]

[Devices subject to this condition : D143, D147, D152, D160]

B. Material/Fuel Type Limits

B75.2 The operator shall not use fuel oil in this equipment except under the following circumstance(s):

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

1). Interruption in natural gas service due to unforeseeable failure, malfunction, or natural disaster, not resulting from an intentional or negligent act or omission on the part of the owner or operator

2) for diesel fuel readiness testing not to exceed 1 hour per month

Fuel oil shall be low nitrogen low sulfur diesel. Sulfur content shall not exceed 15 ppm. Nitrogen content shall not exceed 30 ppm. The operator shall keep records of the date diesel was used, the amount of diesel used, and the reason for use

Vendor specifications for the initial and each subsequent shipment of diesel shall be maintained to verify sulfur and nitrogen content. If the vendor information is not available, the operator shall have a sample of each shipment of fuel analyzed by an independent lab for sulfur and nitrogen concentration. These records shall be kept for a minimum of 5 years and be made available for AQMD inspection upon request.

[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 : D130]

B75.3 The operator shall not use fuel oil in this equipment except under the following circumstance(s):

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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:

1). Interruption in natural gas service due to unforeseeable failure, malfunction, or natural disaster, not resulting from an intentional or negligent act or omission on the part of the owner or operator

2). For distillate fuel readiness testing not to exceed 60 minutes per month. For the purposes of this condition, distillate fuel readiness testing shall be defined as the period in which fuel oil is fired in the gas turbines for the sole purpose of ensuring the turbines remain available for fuel oil service

Fuel oil shall be low nitrogen, low sulfur diesel. Sulfur content shall not exceed 15 ppm or other more stringent limit specified in Rule 431.2. The operator shall keep records of the date diesel was used, the amount of diesel used, and the reason for use. These records shall be kept for a minimum of 5 years and be made available for AQMD inspection upon request

Vendor specification for the initial and each subsequent shipment of diesel shall be maintained to verify sulfur and nitrogen content. If the vendor information is not available, the operator shall have a sample of each shipment of fuel analyzed by an independent lab for sulfur and nitrogen concentration. These records shall be kept for a minimum of 5 years and be made available for AQMD inspection upon request

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1703 - PSD Analysis, 10-7-1988; RULE 2005, 5-6-2005]

[Devices subject to this condition : D143, D147, D152, D160]

C. Throughput or Operating Parameter Limits

C1.5 The operator shall limit the fuel usage to no more than 192.1 MM cubic feet per month.

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

To comply with this condition, the operator shall install and maintain a(n) non-resettable totalizing fuel flow meter to accurately indicate the fuel usage of the turbine.

The purpose(s) of this condition is to ensure compliance with Rule 1303 Offsets. The fuel use records shall be maintained for a minimum of 5 years. The operator shall submit to the AQMD monthly fuel use data at the end of each month during the first 12 months of operation.

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

[Devices subject to this condition : D130]

- C6.2 The operator shall use this equipment in such a manner that the power output being monitored, as indicated below, does not exceed 47.4 MW.

To comply with this condition, the operator shall install and maintain a(n) measuring device to accurately indicate the power output of the turbine.

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. The averaging time to determine compliance with the limit shall be 1 hour.

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

[Devices subject to this condition : D130]

- C157.1 The operator shall install and maintain a pressure relief valve set at 50 psig.

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

[Devices subject to this condition : D137, C138, D139, D141]

D. Monitoring/Testing Requirements

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

D12.3 The operator shall install and maintain a(n) measuring device to accurately indicate the water-to-fuel ratio of the turbine.

[RULE 2012, 5-6-2005; 40CFR 60 Subpart GG, 3-6-1981]

[Devices subject to this condition : D130]

D12.4 The operator shall install and maintain a(n) continuous monitoring system to accurately indicate the ammonia injection rate of the ammonia injection system.

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 twelve months. The ammonia injection rate shall not exceed 75 lbs per hour.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1703 - PSD Analysis, 10-7-1988]

[Devices subject to this condition : C132, C149, C157]

D12.5 The operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature in the exhaust at the inlet to the SCR reactor.

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 twelve months. The temperature shall be between 350 øF and 825 øF.

[RULE 1703 - PSD Analysis, 10-7-1988; RULE 2012, 5-6-2005]

[Devices subject to this condition : C132, C149, C157]

D12.6 The operator shall install and maintain a(n) pressure gauge to accurately indicate the pressure across the SCR catalyst bed in inches water column.

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

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 twelve months. The pressure differential shall not exceed 3.9 inches water column.

[RULE 2012, 5-6-2005]

[Devices subject to this condition : C132]

D12.7 The operator shall install and maintain a(n) pressure gauge to accurately indicate the differential pressure across the SCR catalyst bed in inches water column.

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 2012, 5-6-2005]

[Devices subject to this condition : C149, C157]

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	Approved District method	1 hour	Outlet

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

The test shall be conducted at least quarterly during the first 12 months of operation of the SCR, 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.

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

The test shall be conducted when the equipment is operating at 80 percent load or greater.

The test shall be conducted test shall be conducted and the results submitted to the District within 45 days after the test date.

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

[Devices subject to this condition : C132]

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
NOX emissions	District method 100.1	1 hour	Outlet
CO emissions	District method 100.1	1 hour	Outlet
SOX emissions	District method 6.1	1 hour	Outlet
VOC	Approved District method	1 hour	Outlet
PM emissions	Approved District method	1 hour	Outlet
NH3 emissions	Approved District method	1 hour	Outlet

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

The test shall be conducted in accordance with a District approved source test protocol. The protocol shall be submitted to the District engineer no later than 45 days before the proposed test date and shall be approved by the District before the test commences. The 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 R304, and a description of all sampling and analytical procedures.

The test(s) shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up.

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 for compliance verification of the BACT VOC 2.0 ppmv limit. The test results must be reported with two significant digits.

For natural gas fired turbines only, this shall be demonstrated by: a) Stack gas samples are extracted into Summa canisters, keeping a final canister pressure between 400-500 mm Hg absolute, b) Pressurization of Summa canisters is done with zero gas analyzed/certified of 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 temperature of the Summa canisters when extracting samples for analysis is not below 70 degree F.

The use of this alternative method 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 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 BACT level was set using data derived from various source test methods, this alternate method provides a fair comparison and represents the best sampling and analysis technique.

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

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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 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 2005, 5-6-2005]

[Devices subject to this condition : D130]

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
CO emissions	District method 100.1	1 hour	Outlet of the SCR
SOX emissions	Approved District method	District-approved averaging time	District Approved test location
VOC	Approved District method	1 hour	Outlet of the SCR
PM emissions	District method 5.2	District-approved averaging time	Outlet of the SCR
NH3 emissions	District method 207.1 and 5.3 or EPA method 17	1 hour	Outlet of the SCR
NOX emissions	District method 100.1	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 after approval of the source test protocol, but no later than 180 days after initial start-up.

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 and steam turbine generating output (MW).

The test shall be conducted in accordance with a District approved source test protocol. The protocol shall be submitted to the District engineer no later than 45 days before the proposed test date and shall be approved by the District before the test commences. The protocol shall include the proposed operating conditions of the turbine during the tests, the identity of the testing lab, a statement from the lab certifying that it meets the criteria of R304, and a description of all sampling and analytical procedures.

The test shall be conducted for all pollutants 1) when the gas turbine and duct burner are operating simultaneously at 100 percent of maximum heat input and 2) when the gas turbine is operating alone at 100 percent of maximum heat input. In addition, tests shall be conducted when the gas turbine is operating alone at loads of 75 and 50 percent of maximum heat input for the NO_x, CO, VOC, and NH₃ tests.

[RULE 1303(a)-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; RULE 2005, 5-6-2005]

[Devices subject to this condition : D143, D147, D152, D160]

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
SOX emissions	Approved District method	District-approved averaging time	District Approved test location
VOC	Approved District method	1 hour	Outlet of the SCR

FACILITY PERMIT TO OPERATE LA CITY, DWP VALLEY GENERATING STATION

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 emissions limit.

The test shall be conducted at least once every three years, on natural gas fuel at 80% load or greater.

The test shall be conducted and the results submitted to the District within 60 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.

[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 : D143, D147, D152, D160]

D29.5 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 LA CITY, DWP VALLEY GENERATING STATION

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

The test shall be conducted at least quarterly during the first 12 months of operation and at least annually thereafter. The NO_x 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 NO_x emissions using District Method 100.1 measured over a 60 minute averaging time period.

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

The test shall be conducted when the equipment is operating at 80 percent load or greater.

The test shall be conducted and the results submitted to the District within 45 days after the test date.

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

[Devices subject to this condition : C149, C157]

D29.6 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
NO _x emissions	District method 100.1	30 minutes	Outlet of the SCR serving this equipment

FACILITY PERMIT TO OPERATE LA CITY, DWP VALLEY GENERATING STATION

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 when the unit is firing diesel fuel in order to determine the emissions profile of the unit. A minimum of 6 tests shall be performed and the operator shall record the turbine output, ammonia injection rate, and temperature of the exhaust during each test, based on a 30 minutes averaging time. Test results shall also include the fuel flow rate (CFH), the flue gas flow rate, and the duct burner fuel use during the test.

The test shall be conducted in order to generate a load curve for NO_x (lbs/MW) vs. MW output over the span of tested loads. The operator may, after receiving approval from the AQMD, use this curve to report NO_x emissions during the monthly 60 minute (total) diesel readiness testing periods.

[RULE 1703 - PSD Analysis, 10-7-1988; RULE 2012, 5-6-2005]

[Devices subject to this condition : D143, D147, D152, D160]

D29.7 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	15 minutes	Outlet

The test shall be conducted when the unit is firing diesel fuel in order to determine the emissions profile of the unit. The SCR is not required to be operational during the tests. A minimum of 6 tests shall be performed and the operator shall record the turbine output, ammonia injection rate, and temperature of the exhaust during each test, based on an average time of 15 minutes. Test results shall also include the fuel flow rate (CFH) and the flue gas flow rate during the test.

The test shall be conducted in order to generate a load curve for NO_x (lbs/MW) vs. MW output over the span of tested loads. The operator may, after receiving approval from the AQMD, use this curve to report NO_x emissions during the monthly 60 minutes (total) diesel readiness testing periods.

[RULE 2012, 5-6-2005]

FACILITY PERMIT TO OPERATE LA CITY, DWP VALLEY GENERATING STATION

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 : D130]

D29.8 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

The test shall be conducted to demonstrate compliance with the PSD concentration and emissions limit.

The test shall be conducted once a year. Upon written request from the facility and adequate justification AQMD may waive a specific annual test and/or allow testing to be done at less than the maximum operating capacity.

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 and steam turbine generating output (MW).

The test shall be conducted in accordance with a District approved source test protocol. The protocol shall be submitted to the District engineer no later than 45 days before the proposed test date and shall be approved by the District before the test commences. The protocol shall include the proposed operating conditions of the turbine during the tests, the identity of the testing lab, a statement from the lab certifying that it meets the criteria of R304, and a description of all sampling and analytical procedures.

For performance test purposes, sampling ports, platforms, and access must be provided by the Permittee on the emission unit exhaust system in accordance with 40 CFR 60.8(e)

[RULE 1703 - PSD Analysis, 10-7-1988]

[Devices subject to this condition : D143, D147, D152, D160]

FACILITY PERMIT TO OPERATE LA CITY, DWP VALLEY GENERATING STATION

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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 operator shall not install the CEMS prior to receiving initial approval from AQMD.

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

The CEMS shall 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 = $K * C_{co} * F_d * [20.9 / (20.9 - \%O_{2d})] * [Q_g * HHV]$, where:

$K = 7.267 * 0.01$

C_{co} = Average of four consecutive 15-min. average CO concentration in ppm

$F_d = 8710$ dscf/mmbtu natural gas

$\%O_{2d}$ = Hourly average percentage by volume O2 dry, corresponding to C_{co}

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

HHV = Higher Heating Value of fuel gas, Btu/scf.

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

[Devices subject to this condition : D130]

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 operating no later than 12 months after the initial start-up of the turbine and shall comply with all 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 2 weeks of the turbine start-up date, the operator shall provide written notification to the District of the exact date of start-up

[RULE 2012, 5-6-2005]

[Devices subject to this condition : D130]

D82.4 The operator shall install and maintain a CEMS to measure the following parameters:

FACILITY PERMIT TO OPERATE LA CITY, DWP VALLEY GENERATING STATION

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

CO concentration in ppmv

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 to measure CO concentration over a 15 minute averaging time period. The CEMS is not required to be certified for diesel firing

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

The CEMS shall be installed no later than 90 days after start up, 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 startup date, the operator shall provide written notification to the District of the exact date of start-up

[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 : D143, D147, D152, D160]

D82.5 The operator shall install and maintain a CEMS to measure the following parameters:

FACILITY PERMIT TO OPERATE LA CITY, DWP VALLEY GENERATING STATION

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

NOX concentration in ppmv

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

The CEMS shall be installed no later than 12 months 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 startup date, the operator shall provide written notification to the District of the exact date of start-up

Not less than 90 days prior to the date of initial startup of the facility, the facility shall submit to AQMD a quality assurance project plan for the certification and operation of the continuous emission monitors. The plan shall be updated and resubmitted upon request by EPA.

The CEMS shall meet EPA monitoring performance and quality assurance specifications of 40 CFR Part 60, Appendix B and Appendix F, and 40 CFR Part 75.

The CEMS shall be operated during startups, shutdowns, and distillate fuel readiness tests. With AQMD's approval the facility may elect to use an approved alternative method to report NOx emissions during distillate fuel readiness tests.

[RULE 1703 - PSD Analysis, 10-7-1988; RULE 2012, 5-6-2005]

[Devices subject to this condition : D143, D147, D152, D160]

FACILITY PERMIT TO OPERATE LA CITY, DWP VALLEY GENERATING STATION

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

D371.2 The operator shall conduct an inspection for visible emissions from all stacks and other emission points of this equipment on an annual basis whenever this equipment is fired on fuel oil for training/testing purposes; and after every 400 cumulative hours of operation on diesel fuel or after every two million gallons of diesel fuel combusted, to be counted cumulatively over a five year period. The inspection shall be conducted while the equipment is in operation and during daylight hours. If any visible emissions (not including condensed water vapor) are detected, the operator shall:

Have a CARB-certified smoke reader determine compliance with the opacity standard, using EPA Method 9 or the procedures in the CARB manual "Visible Emission Evaluation", within three working days (or during the next fuel oil firing period if the unit ceases firing on fuel oil within the three working day time frame) and report any deviations to AQMD.

In addition, the operator shall keep the records in accordance with the recordkeeping requirements in Section K of this permit and the following records:

- a). Stack or emission point identification;
- b). Description of any corrective actions taken to abate visible emissions;
- c). Date and time visible emission was abated; and
- d). Visible emission observation record by a certified smoke reader.

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

[Devices subject to this condition : D130, D143, D147, D152, D160]

FACILITY PERMIT TO OPERATE LA CITY, DWP VALLEY GENERATING STATION

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

D372.1 The operator shall determine compliance with the particulate matter (PM) emission limit by conducting a source test at the outlet of the exhaust stack annually using AQMD Method 5.1. Each test shall include:

(a) One test using natural gas operating at minimum load under normal operating conditions, if natural gas is burned more than 120 consecutive hours or 200 hours accumulated over any 12 consecutive months. The test shall be conducted no later than six months after the time limit has been exceeded;

(b) One test using natural gas operating at maximum load under normal operating conditions, if natural gas is burned more than 120 consecutive hours or 200 hours accumulated over any 12 consecutive months. The test shall be conducted no later than six months after the time limit has been exceeded;

(c) One test using fuel oil operating at maximum load under normal operating conditions, if fuel oil is burned more than 120 consecutive hours or 200 hours accumulated over any twelve consecutive months. The test shall be conducted no later than six months after the time limit has been exceeded.

[RULE 3004(a)(4)-Periodic Monitoring, 8-11-1995; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : D143, D147, D152, D160]

E. Equipment Operation/Construction Requirements

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

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1703 - PSD Analysis, 10-7-1988; RULE 2005, 5-6-2005]

[Devices subject to this condition : D130, D143, D147, D152, D160]

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

E57.2 The operator shall vent this equipment to the loading truck through the vapor return line whenever the tank is being filled. The pressure relief valve shall vent only to the scrubber, Device C138.

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

[Devices subject to this condition : D137]

E57.5 The operator shall vent this equipment to the loading truck through the vapor return line whenever the tank is being filled. The pressure relief valve shall vent only to the scrubber.

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

[Devices subject to this condition : D139, D141]

E57.6 The operator shall vent this equipment to the loading truck through the vapor return line whenever the tank is being filled. The pressure relief valve shall vent only to the scrubber, Device C138.

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

[Devices subject to this condition : D137]

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

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

During diesel readiness tests not to exceed 60 minutes per month

[**RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 402, 5-7-1976**]

[Devices subject to this condition : D130]

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

E73.2 Notwithstanding the requirements of Section E conditions, the operator may, at his discretion, choose not to use ammonia injection if any of the following requirement(s) are met:

During exclusive natural gas firing, the inlet exhaust temperature to the SCR is 450 degrees F or less, not to exceed 6 hours during a cold startup, and 3 hours during a non-cold startup.

during diesel readiness testing

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1703 - PSD Analysis, 10-7-1988; RULE 2005, 5-6-2005]

[Devices subject to this condition : C149, C157]

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 12-4

Condition Number 12-5

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

[Devices subject to this condition : C132]

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 12-6

[RULE 2012, 5-6-2005]

[Devices subject to this condition : C132]

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

E179.3 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- 4

Condition Number D 12- 5

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 2012, 12-5-2003; RULE 2012, 5-6-2005]

[Devices subject to this condition : C149, C157]

E179.4 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 month.

Condition Number D 12- 7

[RULE 2012, 5-6-2005]

[Devices subject to this condition : C149, C157]

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

In accordance with all mitigation measures as stipulated by the "Statement of Findings, Statement of Overriding Considerations, and Mitigation Monitoring Plan" Attachment I of the Final EIR (SCH No. 2000101008) dated January 2001

[CA PRC CEQA, 11-23-1970]

[Devices subject to this condition : C132]

E193.3 The operator shall upon completion of construction, operate and maintain this equipment according to the following specifications:

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

In compliance with all mitigation measures as stipulated by the "Statement of Findings, Statement of Overriding Considerations, and Mitigation Monitoring Plan" and final Environmental Impact Report (FEIR) dated January, 2002 (SCH No. 2001051035), and addendum to the FEIR dated January 2005.

[CA PRC CEQA, 11-23-1970]

[Devices subject to this condition : D139, D141, D143, D147, C149, D152, C157, D160]

E193.4 The operator shall operate and maintain this equipment according to the following specifications:

The facility shall notify AQMD following any malfunction of air pollution control equipment, process equipment, or of a process to operate in a normal manner, which results in an increase in emissions above any allowable emission limit stated in this permit. The notice shall be sent to AQMD at breakdowns_notification@aqmd.gov by electronic mail transmission within two (2) working days of the occurrence. In addition, AQMD shall be notified in writing within fifteen (15) days of any such failure.

The notice shall include a description of the malfunctioning equipment or abnormal operation, the date of the initial failure, the period of time over which emissions were increased due to the failure, the cause of the failure, the estimated resultant emissions in excess of those allowed under this permit. The notice shall also include the methods utilized to mitigate emissions and restore normal operations.

A malfunction means a sudden and reasonably unforeseeable breakdown of equipment or of a process beyond the control of the source requiring immediate corrective action to restore normal operation.

Compliance with this malfunction notification provision shall not excuse or otherwise constitute a defense to any violation of this permit or any law or regulation that such malfunction may cause.

[RULE 1703 - PSD Analysis, 10-7-1988]

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

[Devices subject to this condition : D143, D147, C148, C149, D152, C156, C157, D160]

E193.5 The operator shall operate and maintain this equipment according to the following specifications:

In compliance with all applicable provisions of all applicable federal, state, and local air quality regulations, including, but not limited to 40 CFR Parts 52, 60, 63, 72 through 75.

In the event of any changes in control or ownership of the facilities to be constructed the applicant shall notify the succeeding owner and operator of the existence of this PSD permit and its conditions by letter. The PSD permit Authority to Construct shall be binding on all subsequent owners and operators.

Combined annual NO_x emissions from this equipment, including all periods of startup, shutdown, and distillate fuel readiness testing, shall not exceed 220 tons/year, based on a 12-month rolling average

[RULE 1703 - PSD Analysis, 10-7-1988]

[Devices subject to this condition : D143, D147, C148, C149, D152, C156, C157, D160]

E193.6 The operator shall construct this equipment according to the following requirements:

After completion of the catalyst replacement and within 60 days of the first use of the new SCR catalyst the operator shall demonstrate compliance of gas turbine NO_x and CO emission limits through CEMS data.

The CEMS data shall include emission data when the gas turbine is operating at 100% and 75% of the maximum load. The CEMS data shall be presented in ppmv, dry and corrected to 15% excess oxygen level.

The operator shall provide records of the CEMS data to the AQMD engineer within 90 days of the new SCR catalyst first use.

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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 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition : C132]

I. Administrative

1296.1 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 beginning of all compliance years, hold a minimum NO_x RTCs of 59,112 lbs. In accordance with Rule 2005(f), unused RTC's may be sold only during the reconciliation period for the fourth quarter of the applicable compliance year inclusive of the 1st compliance year

[RULE 2005, 5-6-2005]

[Devices subject to this condition : D130]

1296.2 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.

For purposes of this condition, the amount of RTCs to be held shall be 364,257 lbs NO_x total for Turbines 6 and 7 and their associated duct burners. To comply with this condition, the operator shall limit the total compliance year NO_x emissions to 364,257 lbs NO_x for Turbines 6 and 7 and their associated duct burners

[RULE 2005, 5-6-2005]

FACILITY PERMIT TO OPERATE LA CITY, DWP VALLEY GENERATING STATION

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

[Devices subject to this condition : D143, D147, D152, D160]

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.

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.

Emission data shall be expressed in terms of mass rate (lbs/hr). In addition, solid PM emissions, if required to be tested, shall also be reported in terms of grains per DSCF.

Emission data shall be expressed in terms of lbs/MM cubic feet.

Source test results shall also include turbine fuel flow and exhaust gas rate under which the test was conducted.

Source test results shall also include turbine and generator output 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; RULE 2005, 5-6-2005]

[Devices subject to this condition : D130]

FACILITY PERMIT TO OPERATE LA CITY, DWP VALLEY GENERATING STATION

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

K40.2 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.

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.

Emission data shall be expressed in terms of mass rate (lbs/hr). In addition, solid PM emissions, if required to be tested, shall also be reported in terms of grains per DSCF.

Source test results shall also include turbine fuel flow, exhaust gas rate, turbine and generator output under which the test was conducted.

Emission data shall be expressed in terms of lbs/MM cubic feet.

[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; RULE 1703 - PSD Analysis, 10-7-1988; RULE 2005, 5-6-2005]

[Devices subject to this condition : D143, D147, D152, D160]

K67.6 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

During commissioning - written records of the natural gas and distillate fuel use, the dates of operation and the operating parameters of the equipment. After commissioning - the date, time, duration, and CEMS minute data for start-ups. These records shall be maintained and made available upon request from AQMD

**FACILITY PERMIT TO OPERATE
LA CITY, DWP VALLEY GENERATING STATION**

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

[RULE 2012, 5-6-2005]

[Devices subject to this condition : D143, D147, D152, D160]

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PERMIT TO CONSTRUCT

COMPANY NAME AND ADDRESS

LA DWP Valley Generation Station radium
 11801 Sheldon Street
 Los Angeles, CA 91352
 SCAQMD ID #800193

Contact: Dipak Patel (213) 367-3764

EQUIPMENT LOCATION

11801 Sheldon Street
 Los Angeles, CA 91352

EQUIPMENT DESCRIPTION

Section H of the Facility Permit, ID# 800193, Facility Description and Temporary Permit to Operate.

Equipment	ID No.	Connected To	Source Type/ Monitoring Unit	Emissions	Conditions
Process 1: INTERNAL COMBUSTION; POWER GENERATION					
System 1: Simple Cycle Turbines					
SELECTIVE CATALYTIC REDUCTION, NO. 5, ENGELHARD HALDOR TOPSOE, MODEL: DNX 629, WITH 4674 777 CUBIC FEET OF TOTAL CATALYST VOLUME, WIDTH: 3-FT 9'1"; HEIGHT: 51-FT 1'1"; LENGTH: 41-FT 48'2"; WITH: A/N: 453705 518040	C132	D130		NH3: 5 PPMV (4) [RULE 1303-BACT]	A195.3, <u>D12.4,</u> <u>D12.5,</u> <u>D12.6,</u> D29.1, E179.1, E179.2, E193.1 <u>E193-6</u>

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Equipment	ID No.	Connected To	Source Type/ Monitoring Unit	Emissions	Conditions
AMMONIA INJECTION GRID					
CO OXIDATION CATALYST, NO. 10, ENGELHARD, WITH 835 CUBIC FEET OF TOTAL CATALYST VOLUME A/N: 453705 <u>518040</u>	C134	D130			

BACKGROUND

The Los Angeles Department of Water and Power (LADWP) operates the Valley Generating Station (VGS) for electricity generation. In 2000 LADWP added one peaker unit to the VGS so that it could increase power generation during peak seasons. The peaker unit is a 47 MW GE LM6000 Sprint simple cycle turbine generator. Selective Catalyst Reduction (SCR) with ammonia injection is used for NOx emissions control, and oxidation catalysts are used for CO emissions control. The District issued a permit to construct to the gas turbine and the SCR on May, 2001.

LADWP submitted two applications on January 25, 2011 for modification of the SCR catalyst. It decided to replace the existing SCR catalysts with a different make and model. However, it will not make a change to the CO catalysts. The following information is provided by LADWP on the Form 400-E-5.

SCR Catalyst Make:	Haldor Topsoe
Model:	DNX 629
Total Catalyst Volume:	776.9 cubic feet
Number of Modules:	11
Module length:	48' 1.8"
Module width:	9' 1"
Module height:	1' 1"

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In addition, LADWP indicated through email communication that the temperature window is between 350 F and 825 F. The maximum pressure drop across the SCR is 3.9 inch water column. The maximum ammonia injection rate is 75 lbs/hr.

LADWP plans to start catalysts replacement in April 2011. The replacement project is expected to complete in one month. Upon completion of construction LADWP will verify the catalyst performance through the certified CEMS. Performance tests are not required since the certified CEMS can provide equivalent assurance. LADWP will be required to provide CEMS data that demonstrates catalyst performance. A new condition E193.3 will be added to the permits.

The applications are deemed completed on January 29, 2011. The following table shows the application numbers. LADWP requested expedited permit processing.

Table 1 Application Numbers

Applications	Facility	Fee
518039	RECLAIM/Title V Facility Permit Modification	\$1,723.07
518040	SCR and oxidation catalyst for Turbine No. 10	\$3,313.05
Rule 301(t) – Expedite Permit Processing Fee		\$1,656.53
Total		\$6,692.65

LA DWP is a Title V facility and participates in the NOx RECLAIM program.

EMISSIONS

The only emissions that are associated with the SCR catalysts are the ammonia slip emissions. The permit allows 5 ppmv ammonia slip. The changes to the SCR catalysts are not affecting the ammonia emissions.

The ammonia emissions, as determined by the previous applications, are 81 lbs/day for each SCR catalyst.

COMPLIANCE HISTORY

A search of the District compliance database reveals the following issues during the last three years:

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- 1 Notice of violation P51302 was issued on October 10, 2008 because the fill tube for underground gasoline storage tank #4 was not equipped with a vapor tight cap. The facility has corrected the issue. It is in compliance now.
- 2 Notice of violation P32849 was issued on March 27, 2008 because Device D152 exceeded its 2.5 ppm NOx BACT limit specified in permit conditions A195.4 and A433.1. This is due to equipment breakdown. The facility has corrected the issue. It is in compliance now.

There are no current violations outstanding for this facility.

RULES EVALUATION

40CFR Part 60 Subpart GG – Standards of Performance for Stationary Gas Turbines

This regulation applies to gas turbines. However, it does not apply to SCR.

40CFR Part 60 Subpart KKKK – Standards of Performance for Stationary Combustion Turbines

This regulation applies to gas turbines. However, it does not apply to SCR.

Rule 212 – Standards for Approving Permits

There is no school within 1,000 feet of the facility boundary, and there is no emission increase. Public notice is not required.

Rule 401 – Visible Emissions

Visible emissions are not expected under normal operating conditions of the turbines.

Rule 402 – Nuisance

Nuisance problems are not expected under normal operating conditions of the turbines.

Rule 1300 – New Source Review for Non-RECLAIM Pollutants

NSR is not triggered since there are no emission increases from the proposed modification.

Rule 1401 – Toxic Air Contaminants

Toxic air contaminant emissions are not to expect to increase. This rule is not triggered.

Regulation XVII – Prevention of Significant Deterioration (PSD)

The replacement of the SCR catalyst will not affect the emissions of attainment pollutants. CO, NO₂, and SO₂ emissions from the gas turbine will not increase. This regulation is not triggered.

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Regulation XX – RECLAIM

The replacement of the SCR catalyst will not affect NOx emissions. Continued compliance with this regulation is anticipated.

Regulation XXX – Title V Permit

The proposed SCR catalyst replacement constitutes a minor revision to the Title V permit. The engineering evaluation and the draft permit will be submitted to EPA for review. The EPA is afforded a 45-day review period. The final permit will be issued after the EPA review is completed if there are no comments, or revised to address EPA’s comments.

RECOMMENDATION

The equipment is expected to comply with all the federal, state, and local regulations. It is recommended that a permit to operate be issued with the following conditions.

CONDITIONS

A195.3 The 5 PPM NH3 emission limit(s) is averaged over 60 min at 15 percent O₂ dry. The operator shall calculate and continuously record the NH3 slip concentration using: $NH3(ppmv) = [a-b*c/1E6]*1E6/b$, a= NH3 injection rate (lb/hr)/17(lb/lbmole), b= dry exhaust gas flow rate(lb/hr)/29(lb/lbmole), and c= change in measured NOx across the SCR, ppmvd at 15 percent O₂. The operator shall install and maintain a NOx analyzer to measure the SCR inlet NOx ppm accurate to within +/- 5 percent calibrated at least once every 12 mo. , or seek AQMD approval for alternative slip method.

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

[RULE 1303(a)(1)-BACT]

[Devices subject to this condition: C132]

D12.4 The operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the total hourly throughput of injected ammonia (NH3).

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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 twelve months. The ammonia injection rate shall not exceed 75 lbs per hour.

[RULE 1303(a)(1)-BACT]

[Devices subject to this condition: C132]

D12.5 The operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature at the inlet to the SCR reactor.

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 twelve months. The temperature shall be between 350 °F and 825 °F.

[RULE 1303(a)(1)-BACT, RULE 2005, RULE 1703 PSD]

[Devices subject to this condition: C132]

D12.6 The operator shall install and maintain a(n) pressure gauge to accurately indicate the differential pressure across the SCR catalyst bed in inches water column.

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 twelve months. The pressure differential shall not exceed 3.9 inches water column.

[RULE 1303(a)(1)-BACT, RULE 2005, RULE 1703 PSD]

[Devices subject to this condition: C132]

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

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Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
NH3 emissions	Approved District method	1 hour	Outlet

The test shall be conducted at least quarterly during the first 12 months of operation of the SCR, 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.

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

The test shall be conducted when the equipment is operating at 80 percent load or greater.

The test shall be conducted test shall be conducted and the results submitted to the District within 45 days after the test date.

[RULE 1303(a)(1)-BACT]

[Devices subject to this condition: C132]

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 D12.4

Condition Number D12.5

[RULE 1303(a)(1)-BACT, RULE 2005, RULE 1703 PSD]

[Devices subject to this condition: C132]

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 D12.6

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[RULE 1303(a)(1)-BACT, RULE 2005, RULE 1703 PSD]

[Devices subject to this condition: C132]

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

In accordance with all mitigation measures as stipulated by the "Statement of Findings, Statement of Overriding Considerations, and Mitigation Monitoring Plan" Attachment 1 of the Final EIR (SCH No. 2000101008) dated January 2001

[CA PRC CEQA, 11-23-1970]

[Devices subject to this condition: C132]

E193.6 The operator shall construct this equipment according to the following specifications:

After completion of the catalyst replacement and within 60 days of the first use of the new SCR catalyst the operator shall demonstrate compliance of gas turbine NOx and CO emission limits through CEMS data.

The CEMS data shall include emission data when the gas turbine is operating at 100% and 75% of the maximum load. The CEMS data shall be presented in ppmv, dry and corrected to 15% excess oxygen level.

The operator shall provide records of the CEMS data to the AQMD engineer within 90 days of the new SCR catalyst first use.

[RULE 1303(a)(1)-BACT, RULE 2005, RULE 1703 PSD]

[Devices subject to this condition: C132]