



# South Coast Air Quality Management District

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

April 4, 2013

Mark Sedlacek  
Director of Environmental Affairs  
Los Angeles Department of Water and Power  
111 North Hope Street, Room 1050  
Los Angeles, CA 90012

Subject: Los Angeles Department of Water and Power (LADWP) Scattergood  
Generating Station (Facility ID 800075) RECLAIM/Title V/PSD Facility  
Permit Revision

Dear Mr. Sedlacek:

Please find attached the revised Title Page, Table of Contents, and Section H of the RECLAIM/Title V/PSD Facility Permit for LADWP Scattergood Generating Station located at 12700 Vista Del Mar, Playa Del Ray, CA 90293. The revised permit reflects the approval of the significant permit revision requested in your Title V application A/N536791 for the Scattergood Repowering Project. The proposed permit was submitted to EPA for review on December 14, 2012 for the 45-day review. The EPA provided comments on January 25, 2013. The EPA comments were adequately addressed on March 29, 2013 by the SCAQMD. This permit revision includes the addition and revision of the equipment identified in Attachment 1.

Please review the attached sections carefully. Insert the enclosed sections into your RECLAIM/Title V/PSD Facility Permit and discard the earlier version. Questions concerning changes to your permit should be directed to Mr. Li Chen at (909) 396-2426.

Very truly yours,

A handwritten signature in black ink, appearing to read 'Mohsen Nazemi', written over a horizontal line.

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

MN:AL:JY:LC  
Attachments

cc: Gerardo Rios, US EPA Region IX (R9AirPermitsSC@epa.gov)  
Ed Pupka, Compliance

Attachment 1

Equipment	Application No	Device No.	Process/ System	Permit Type
Gas turbine generator Unit 4	536783	D96	5	P/C
Gas turbine generator Unit 6	536803	D104	5	P/C
Gas turbine generator Unit 7	536805	D110	5	P/C
Standby diesel IC engine	536801	D116	5	P/C
Waste oil/water separator #1	536796	D118	5	P/C
Waste oil/water separator #2	536798	D119	5	P/C
SCR/CO Catalyst for CTG #4	536784	C100, C101	5	P/C
SCR/CO Catalyst for CTG #6	536807	C106, C107	5	P/C
SCR/CO Catalyst for CTG #7	536812	C112, C113	5	P/C
Boiler generator #1 de-rate	538662	D24	6	P/C



## FACILITY PERMIT TO OPERATE

**LA CITY, DWP SCATTERGOOD GENERATING STN  
12700 VISTA DEL MAR  
PLAYA DEL REY, CA 90293**

### 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 SCATTERGOOD GENERATING STN

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**FACILITY PERMIT TO OPERATE  
LA CITY, DWP SCATTERGOOD GENERATING STN**

**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 5- INTERNAL COMBUSTION, 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.



## FACILITY PERMIT TO OPERATE LA CITY, DWP SCATTERGOOD GENERATING STN

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
<b>Process 5: INTERNAL COMBUSTION, POWER GENERATION</b>					
GAS TURBINE, NO.4, COMBINED CYCLE, NATURAL GAS, GENERAL ELECTRIC, MODEL 7FA.05, 2,080.9 MMBTU/HR HHV @ 63 F, WITH LOW NOX BURNER WITH A/N: 536783 Permit to Construct Issued: 04/03/13	D96	C100	NOX: MAJOR SOURCE**	CO: 2 PPMV NATURAL GAS (4) [RULE 1703(a)(2) - PSD-BACT, 10-7-1988]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 2 PPMV NATURAL GAS (4) [RULE 1703(a)(2) - PSD-BACT, 10-7-1988; RULE 2005, 6-3-2011]; NOX: 9.82 LBS/MMSCF NATURAL GAS (1A) [RULE 2012, 5-6-2005]; NOX: 15 PPMV NATURAL GAS (8) [40CFR 60 Subpart KKKK, 7-6-2006]; NOX: 29.54 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-6-2005]; PM10: 0.01 GRAINS/SCF (5A) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; PM10: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; PM10: 10 LBS/HR NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]; PM10: 11 LBS/HR (5B) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; SO2: (9) [40CFR 72 - Acid Rain Provisions, 11-24-1997]; SO2: 0.9 lbs/net MWH (8) [40CFR 60 Subpart KKKK, 7-6-2006]; VOC: 2 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT,	A63.2, A99.4, A99.5, A195.5, A195.6, A195.7, A327.1, C1.8, C1.9, D29.1, D29.2, D82.1, D82.2, E193.2, E193.3, E193.6, I298.1, K40.2, K67.5

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

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



## FACILITY PERMIT TO OPERATE LA CITY, DWP SCATTERGOOD GENERATING STN

### 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
<b>Process 5: INTERNAL COMBUSTION, POWER GENERATION</b>					
GENERATOR, FOR COMBINED CYCLE UNIT NO. 4, 209.5 MW GROSS  STEAM TURBINE, UNIT NO. 5, GENERAL ELECTRIC MODEL A14  GENERATOR, FOR STEAM TURBINE UNIT NO. 5, 108.8 MW GROSS  GENERATOR, HEAT RECOVERY STEAM GENERATOR				5-10-1996; RULE 1303(a)(1) -BACT, 12-6-2002]	
CO OXIDATION CATALYST, FOR UNIT NO. 4, BASF, CATALYST VOLUME: 1200 CUBIC FEET A/N: 536784 Permit to Construct Issued: 04/03/13	C100	D96 C101			
SELECTIVE CATALYTIC REDUCTION, FOR UNIT NO. 4, CORMETECH, 2300 CU.FT. WITH A/N: 536784 Permit to Construct Issued: 04/03/13  AMMONIA INJECTION, AQUEOUS AMMONIA	C101	C100 S103		NH3: 5 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]	D12.7, D12.8, D12.9, D29.3, E179.3, E179.4, E193.2, E193.5
STACK, FOR UNIT NO. 4, HEIGHT: 213 FT ; DIAMETER: 19 FT A/N: 536783 Permit to Construct Issued: 04/03/13	S103	C101			

- \* (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
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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
<b>Process 5: INTERNAL COMBUSTION, POWER GENERATION</b>					
GAS TURBINE, NO.6, SIMPLE CYCLE, INTERCOOLED, NATURAL GAS, GENERAL ELECTRIC, MODEL LMS100PA, 904.1 MMBTU/HR HHV @ 63 F, WITH WATER INJECTION WITH A/N: 536803 Permit to Construct Issued: 04/03/13	D104	C106	NOX: MAJOR SOURCE**	CO: 4 PPMV NATURAL GAS (4) [RULE 1703(a)(2) - PSD-BACT, 10-7-1988]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 2.5 PPMV NATURAL GAS (4) [RULE 1703(a)(2) - PSD-BACT, 10-7-1988; RULE 2005, 6-3-2011]; NOX: 15.9 LBS/MMSCF NATURAL GAS (1A); NOX: 25 PPMV NATURAL GAS (8) [40CFR 60 Subpart KKKK, 7-6-2006]; NOX: 98.06 LBS/MMSCF NATURAL GAS (1); PM10: 0.01 GRAINS/SCF (5A) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; PM10: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; PM10: 5.7 LBS/HR (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1) -BACT, 12-6-2002]; PM10: 11 LBS/HR (5B) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; SO2: (9) [40CFR 72 - Acid Rain Provisions, 11-24-1997]; SO2: 0.9 lbs/net MWH (8) [40CFR 60 Subpart KKKK, 7-6-2006]; VOC: 2 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1) -BACT, 12-6-2002]	A63.3, A99.6, A99.7, A195.8, A195.9, A195.10, A327.1, C1.11, C1.12, D29.1, D29.2, D82.1, D82.2, E193.2, E193.4, E193.7, I298.2, K40.2, K67.5

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

## FACILITY PERMIT TO OPERATE LA CITY, DWP SCATTERGOOD GENERATING STN

### 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
<b>Process 5: INTERNAL COMBUSTION, POWER GENERATION</b>					
GENERATOR, FOR UNIT NO. 6, 103.0 MW GROSS					
CO OXIDATION CATALYST, FOR UNIT NO. 6, BASF, MODEL CAMEL, CATALYST VOLUME: 160 CUBIC FEET A/N: 536807 Permit to Construct Issued: 04/03/13	C106	D104 C107			
SELECTIVE CATALYTIC REDUCTION, FOR UNIT NO. 6, CORMETECH, MODEL NUMBER: CMHT-27, 1211 CU.FT. WITH A/N: 536807 Permit to Construct Issued: 04/03/13	C107	C106 S109		NH3: 5 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]	D12.7, D12.8, D12.9, D29.3, E179.3, E179.4, E193.2, E193.5
AMMONIA INJECTION, AQUEOUS AMMONIA					
STACK, FOR UNIT NO. 6, HEIGHT: 100 FT ; DIAMETER: 13 FT 6 IN A/N: 536803 Permit to Construct Issued: 04/03/13	S109	C107			

- \* (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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- (2) (2A) (2B) Denotes RECLAIM emission rate  
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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
<b>Process 5: INTERNAL COMBUSTION, POWER GENERATION</b>					
GAS TURBINE, UNIT NO. 7, SIMPLE CYCLE, INTERCOOLED, NATURAL GAS, GENERAL ELECTRIC, MODEL LMS100PA, 904.1 MMBTU/HR HHV AT 63 F, WITH WATER INJECTION WITH A/N: 536805 Permit to Construct Issued: 04/03/13	D110	C112	NOX: MAJOR SOURCE**	CO: 4 PPMV NATURAL GAS (4) [RULE 1703(a)(2) - PSD-BACT, 10-7-1988]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 2.5 PPMV NATURAL GAS (4) [RULE 1703(a)(2) - PSD-BACT, 10-7-1988; RULE 2005, 6-3-2011]; NOX: 15.9 LBS/MMSCF NATURAL GAS (1A) [RULE 2012, 5-6-2005]; NOX: 25 PPMV (8) [40CFR 60 Subpart KKKK, 7-6-2006]; NOX: 98.06 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-6-2005]; PM10: 0.01 GRAINS/SCF (5A) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; PM10: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; PM10: 5.7 LBS/HR NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]; PM10: 11 LBS/HR (5B) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; SO2: (9) [40CFR 72 - Acid Rain Provisions, 11-24-1997]; SO2: 0.9 lbs/net MWH (8) [40CFR 60 Subpart KKKK, 7-6-2006]; VOC: 2 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT,	A63.3, A99.6, A99.7, A195.8, A195.9, A195.10, A327.1, C1.11, C1.12, D29.1, D29.2, D82.1, D82.2, E193.2, E193.4, E193.7, I298.3, K40.2, K67.5

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 (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 LA CITY, DWP SCATTERGOOD GENERATING STN

### 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
<b>Process 5: INTERNAL COMBUSTION, POWER GENERATION</b>					
GENERATOR, FOR UNIT NO. 7, 103.0 MW GROSS				5-10-1996; RULE 1303(a)(1) -BACT, 12-6-2002]	
CO OXIDATION CATALYST, FOR UNIT NO. 7, BASF, MODEL CAMET, CATALYST VOLUME: 160 CUBIC FEET A/N: 536812 Permit to Construct Issued: 04/03/13	C112	D110 C113			
SELECTIVE CATALYTIC REDUCTION, FOR UNIT NO. 7, CORMETECH, MODEL NUMBER: CMHT-27, 1211 CU.FT. WITH A/N: 536807 Permit to Construct Issued: 04/03/13  AMMONIA INJECTION, AQUEOUS AMMONIA	C113	C112 S115		NH3: 5 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]	D12.7, D12.8, D12.9, D29.3, E179.3, E179.4, E193.2, E193.5
STACK, FOR UNIT NO. 7, HEIGHT: 100 FT ; DIAMETER: 13 FT 6 IN A/N: 536805 Permit to Construct Issued: 04/03/13	S115	C113			

- \* (1) (1A) (1B) Denotes RECLAIM emission factor
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<b>Process 5: INTERNAL COMBUSTION, POWER GENERATION</b>					
INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, LEAN BURN, DIESEL FUEL, CATERPILLAR, MODEL 3516C DITA, WITH A JOHNSON MATTHEY CRT PARTICULATE FILTER, 3622 BHP WITH A/N: 536801 Permit to Construct Issued: 04/03/13	D116		NOX: PROCESS UNIT**	CO: 0.67 GRAM/BHP-HR DIESEL (4) [RULE 1703(a)(2) - PSD-BACT, 10-7-1988; 40CFR 60 Subpart III, 6-28-2011]; NOX: 3.7 GRAM/BHP-HR DIESEL (4) [RULE 1470, 5-4-2012; RULE 1703(a)(2) - PSD-BACT, 10-7-1988; RULE 2005, 6-3-2011; 40CFR 60 Subpart III, 6-28-2011]; NOX: 170.5 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; PM10: 0.007 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1) -BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1470, 5-4-2012; 40CFR 60 Subpart III, 6-28-2011]; VOC: 0.25 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1) -BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1470, 5-4-2012]	B61.3, D12.3, D12.10, E116.1, E193.2, E448.1, E448.3, E448.4, 1298.4, K67.4
GENERATOR, 2 MW					
OIL WATER SEPARATOR, #1, HIGHLAND, MODEL: HTC5000, VOL: 5000 GAL, FLOW RATE: 500 GPM A/N: 536796 Permit to Construct Issued: 04/03/13	D118				

\* (1) (1A) (1B) Denotes RECLAIM emission factor  
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**FACILITY PERMIT TO OPERATE  
LA CITY, DWP SCATTERGOOD GENERATING STN**

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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  
LA CITY, DWP SCATTERGOOD GENERATING STN**

**SECTION H: DEVICE ID INDEX**

<b>Device Index For Section H</b>			
<b>Device ID</b>	<b>Section H Page No.</b>	<b>Process</b>	<b>System</b>
D24	9	6	0
D96	3	5	0
C100	3	5	0
C101	3	5	0
S103	3	5	0
D104	5	5	0
C106	5	5	0
C107	5	5	0
S109	5	5	0
D110	7	5	0
C112	7	5	0
C113	7	5	0
S115	7	5	0
D116	8	5	0
D118	8	5	0
D119	9	5	0



**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:**

**FACILITY CONDITIONS**

F2.1 The operator shall limit emissions from this facility as follows:

CONTAMINANT	EMISSIONS LIMIT
PM	Less than 100 TONS IN ANY ONE YEAR



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

For the purpose of this condition, the PM shall be defined as particulate matter with aerodynamic diameter of 2.5 microns or less.

For purposes of demonstrating compliance with the 100 ton per year limit the operator shall determine the PM<sub>2.5</sub> emissions for each of the major sources at the facility by calculating a 12-month rolling average using the following formula:

$$PM_{2.5} = (FF1*EF1 + FF2*EF2 + FF4*EF4 + FF6*EF6 + FF7*EF7 + FFD1*EFD1 + FFD2*EFD2)/2000$$

Where: PM<sub>2.5</sub> = PM<sub>2.5</sub> emissions in tons per year

FF1= fuel flow for Unit 1 in MMscf, Unit 1 is a boiler generator, FF2= fuel flow for Unit 2 in MMscf, Unit 2 is a boiler generator, FF4= fuel flow for Unit 4 in MMscf, Unit 4 is the GE 7FA.05 turbine generator, FF6= fuel flow for Unit 6 in MMscf, Unit 6 is the GE LMS100PA turbine generator, FF7= fuel flow for Unit 7 in MMscf, Unit 7 is the GE LMS100PA turbine generator, FFD1= fuel flow for standby generator D19 in Mgal, FFD2= fuel flow for standby generator D116 in Mgal.

EF1= emission factor for Unit 1 = 7.6 lb/MMscf, EF2= emission factor for Unit 2 = 7.6 lb/MMscf, EF4= emission factor for Unit 4 = 5.10 lb/MMscf, EF6= emission factor for Unit 6 = 6.70 lb/MMscf, EF7= emission factor for Unit 7 = 6.70 lb/MMscf, EFD1= emission factor for D19 = 34.4 lb/Mgal, EFD2= emission factor for D116 = 0.3 lb/Mgal

Any changes to these emission factors must be approved in advance by the District in writing and be based on unit specific source tests performed using a District approved testing protocol.

LADWP shall submit written reports of the monthly PM<sub>2.5</sub> compliance demonstrations required by this condition. The report submittal shall be included with the semi-annual Title V report as required under Rule 3004(a)(4)(f). Records of the monthly PM<sub>2.5</sub> compliance demonstrations shall be maintained on site for at least five years and made available upon SCAQMD request.

[RULE 1325, 6-3-2011]



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

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]

F14.1 The operator shall not use fuel oil containing sulfur compounds in excess of 0.05 percent by weight.

The .05 percent sulfur limit shall not apply to existing supplies of any liquid fuel in storage as of October 1, 1993 until such supply is exhausted.

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

F14.2 The operator shall not purchase fuel oil containing sulfur compounds in excess of 15 ppm by weight as supplied by the supplier.

This condition shall become effective on or after June 1, 2004.

[RULE 431.2, 9-15-2000]

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

purchase records of fuel oil and sulfur content of the fuel

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

F18.1 Acid Rain SO<sub>2</sub> Allowance Allocation for affected units are as follows:



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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
24	Scattergood Unit No. 1	SO2	747
20	Scattergood Unit No. 2	SO2	654
22	Scattergood Unit No. 3	SO2	262

- 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]**

**F52.1 This facility is subject to the applicable requirements of the following rules or regulation(s):**



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

The facility shall submit a detailed retirement plan for the permanent shutdown of Boiler 3 (Device D22), describing in detail the steps and schedule that will be taken to render Boiler 3 permanently inoperable. The retirement plan shall be submitted to SCAQMD within 60 days after the permits to construct for gas turbine Units 4, 6 and 7 are issued.

The retirement plan must be approved in writing by SCAQMD. LADWP shall not commence any construction of Boiler 3 repowering project equipment including gas turbines 4,6,7, steam turbine 5, SCR/CO catalysts for gas turbines 4, 6, 7, emergency IC engine, and oil water separator 1, 2, before the retirement plan is approved in writing by SCAQMD. If SCAQMD notifies LADWP that the plan is not approvable, LADWP shall submit a revised plan addressing SCAQMD's concerns within 30 days.

LADWP shall provide SCAQMD by December 31, 2015 with a notarized statement that Boiler 3 is permanently shut down and that any re-start or operation of the unit shall require new Permit to Construct and be subject to all requirements of nonattainment new source review and the prevention of significant deterioration program.

LADWP shall notify SCAQMD 30 days prior to the implementation of the approved retirement plan for permanent shut down of Boiler 3, or advise SCAQMD as soon as practicable should LADWP undertake permanent shutdown prior to December 31, 2015.

LADWP shall cease operation of Boiler 3 (Device D22) within 90 calendar days of the first fire of Unit 4 (Device D96), Unit 6 (Device D104), or Unit 7 (Device D110), whichever occurs first.

No later than 90 calendar days of the first fire of Unit 4, Unit 6, or Unit 7, whichever occurs first, LADWP shall complete the Boiler 1 (Device D24) de-rate project by removing cam lobes 5 through 8 to disable steam control valves 5-8 permanently, and by modifying cam lobe 4 to reduce the opening of steam control valve 4. LADWP shall demonstrate through source test that Boiler 1 operation is limited to 1,134 MMBtu/hr (HHV) heat input and 120.7 gross MW power generation after the de-rate project.



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

The de-rate project is subject to SCAQMD approval. After 90 calendar days of the first fire of Unit 4, 6, or 7, whichever occurs first, LADWP shall not operate Boiler 1 unless the de-rate project is complete and approved by SCAQMD.

LADWP shall provide weekly written updates on the progress of Boiler 1 de-rate project. The updates shall begin upon Boiler 1 equipment modification commencement and conclude upon completion of the project. The weekly updates shall be sent to Li Chen and Rafael Reynosa by email and by US Mail at SCAQMD.

**[RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996]**

F52.2 This facility is subject to the applicable requirements of the following rules or regulation(s):

For the circuit breakers serving Units 4, 6, and 7 the facility shall install, operate, and maintain enclosed-pressure SF6 circuit breakers with a maximum annual leakage rate of 0.5% by weight. The circuit breakers shall be equipped with a 10% by weight leak detection system. The leak detection system shall be calibrated in accordance with manufacturer's specifications. The manufacturer's specifications and records of all calibrations shall be maintained on site.

The total CO2e emissions from the circuit breakers serving Units 4, 6, and 7 shall not exceed 55.4 tons per calendar year.

**[RULE 1714, 11-5-2010]**

### DEVICE CONDITIONS

#### A. Emission Limits

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

CONTAMINANT

EMISSIONS LIMIT



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

CO	Less than 26730 LBS IN ANY CALENDAR MONTH
VOC	Less than 4425 LBS IN ANY CALENDAR MONTH
PM10	Less than 7393 LBS IN ANY CALENDAR MONTH
SOX	Less than 871 LBS IN ANY CALENDAR MONTH

The above limits apply after the equipment is commissioned.

The operator shall calculate compliance with the emission limit(s) by using calendar monthly fuel use data and the following emission factors: VOC: 3.05 lbs/mmescf, PM10: 5.10 lbs/mmescf, SOx: 0.60 lbs/mmescf.

The operator shall calculate the emission limits 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 by using monthly fuel use data and the emission factor of normal operation: 18.45 lbs/mmescf.

[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 : D96]

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

CONTAMINANT	EMISSIONS LIMIT
CO	Less than 6760 LBS IN ANY CALENDAR MONTH
VOC	Less than 1692 LBS IN ANY CALENDAR MONTH
PM10	Less than 4296 LBS IN ANY CALENDAR MONTH
SOX	Less than 384 LBS IN ANY CALENDAR MONTH



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

The above limits apply after the equipment is commissioned. The above limits apply to each turbine.

The operator shall calculate compliance with the emission limit(s) by using calendar monthly fuel use data and the following emission factors: VOC: 2.64 lbs/mmescf, PM10: 6.70 lbs/mmescf, SOx: 0.60 lbs/mmescf.

The operator shall calculate the emission limits 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 by using monthly fuel use data and the emission factor of normal operation: 10.54 lbs/mmescf.

**[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 : D104, D110]

A99.1 The 500 PPM CO emission limit(s) shall not apply when the boiler load is below 40 MW.

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

[Devices subject to this condition : D24]

A99.4 The 29.54 LBS/MMSCF NOX emission limit(s) shall only apply during the turbine commissioning period to report RECLAIM emissions.

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

[Devices subject to this condition : D96]

A99.5 The 9.82 LBS/MMSCF NOX emission limit(s) shall only apply during the interim period after commissioning to report RECLAIM emissions.

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

[Devices subject to this condition : D96]



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

A99.6 The 98.06 LBS/MMSCF NOX emission limit(s) shall only apply during the turbine commissioning period to report RECLAIM emissions.

[RULE 2012, 5-6-2005]

[Devices subject to this condition : D104, D110]

A99.7 The 15.9 LBS/MMSCF NOX emission limit(s) shall only apply during the interim period after commissioning to report RECLAIM emissions.

[RULE 2012, 5-6-2005]

[Devices subject to this condition : D104, D110]

A195.3 The 5 PPMV NOX emission limit(s) is averaged over 720 operating hours (heat input weighted average).

The average shall be calculated based on emissions during all boiler operating hours except startups defined as whenever the unit is being brought up to normal operating temperature from an inactive status, and the exhaust temperature entering the SCR catalyst is less than 450 degrees F.

and shutdowns, defined as whenever the unit is allowed to cool from a normal operating temperature to inactive status, and the exhaust temperature entering the SCR catalyst is less 450 degrees F, calibration, and maintenance periods, Part 75 linearity testing, RATA testing, equipment breakdown periods as defined in Rule 2004, and periods of zero fuel flow.

The heat input weighted average NOx concentration shall be calculated using the following equation, or other equivalent equation:

$PPMV(3\%O_2) = (Et/Qt)*K$ ; where  $PPMV(3\%O_2)$  = the concentration of NOx in PPMV at 3%O<sub>2</sub>; K = a conversion factor from lbs/MMBtu to PPM, which can be determined using EPA 40 CFR60 Method 19. The default K value is 819; Et = Total reported NOx emissions during the averaging period including emissions reported as a result of missing data procedures pursuant to Rule 2012; Qt = Total heat input during the averaging period.



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

[RULE 2009, 1-7-2005]

[Devices subject to this condition : D24]

A195.5 The 2.0 PPMV NOX emission limit(s) is averaged over 1 hour, dry basis at 15 percent oxygen. This limit shall not apply to turbine commissioning, cold startups, non-cold startups, and shutdown periods.

[RULE 1703 - PSD Analysis, 10-7-1988; RULE 2005, 6-3-2011]

[Devices subject to this condition : D96]

A195.6 The 2.0 PPMV CO emission limit(s) is averaged over 1 hour, dry basis at 15 percent oxygen. This limit shall not apply to turbine commissioning, cold startups, non-cold startups, and shutdown periods.

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

[Devices subject to this condition : D96]

A195.7 The 2.0 PPMV VOC emission limit(s) is averaged over 1 hour, dry basis at 15 percent oxygen. This limit shall not apply to turbine commissioning, cold startups, non-cold startups, and shutdown periods.

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

[Devices subject to this condition : D96]

A195.8 The 2.5 PPMV NOX emission limit(s) is averaged over 1 hour, dry basis at 15 percent oxygen. This limit shall not apply to turbine commissioning, cold startups, non-cold startups, and shutdown periods.

[RULE 1703 - PSD Analysis, 10-7-1988; RULE 2005, 6-3-2011]

[Devices subject to this condition : D104, D110]



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

A195.9 The 4.0 PPMV CO emission limit(s) is averaged over 1 hour, dry basis at 15 percent oxygen. This limit shall not apply to turbine commissioning, cold startups, non-cold startups, and shutdown periods.

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

[Devices subject to this condition : D104, D110]

A195.10 The 2.0 PPMV VOC emission limit(s) is averaged over 1 hour, dry basis at 15 percent oxygen. This limit shall not apply to turbine commissioning, cold startups, non-cold startups, and shutdown periods.

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

[Devices subject to this condition : D104, D110]

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 : D96, D104, D110]

**B. Material/Fuel Type Limits**

B61.2 The operator shall not use digester gas containing the following specified compounds:

Compound	ppm by volume
Sulfur compounds calculated as H2S greater than	40



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Sulfur compounds | 500  
calculated as H<sub>2</sub>S greater  
than

The operator shall meet a daily average limit of 40 ppm OR meet a monthly average limit of 40 ppm AND a 15 minute average limit of 500 ppm.

[RULE 431.1, 6-12-1998]

[Devices subject to this condition : D24]

B61.3 The operator shall only use fuel oil containing the following specified compounds:

Compound	ppm by weight
total sulfur compounds calculated as H <sub>2</sub> S less than	15

[RULE 1470, 5-4-2012; RULE 431.2, 5-4-1990; RULE 431.2, 9-15-2000]

[Devices subject to this condition : D116]

### C. Throughput or Operating Parameter Limits

C1.5 The operator shall limit the fuel usage to no more than 688000 cubic feet per hour.

For the purpose of this condition, fuel usage shall be defined as the burning of digester gas.

This limit shall be based on the total combined limit for equipment D20 and D24.

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

[Devices subject to this condition : D24]



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

C1.7 The operator shall limit the operating time to no more than 2 hour(s) in any one day.

The purpose(s) of this condition is to insure that there is no increase in PM10 emissions requiring BACT. This condition shall only apply when the equipment is firing fuel oil. This condition shall not apply during a Force Majeure Natural Gas Curtailment as defined in Rule 1135.

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

[Devices subject to this condition : D24]

C1.8 The operator shall limit the number of start-ups to no more than 62 in any one calendar month.

The number of cold startups shall not exceed 5 time per month and the number of non-cold startups shall not exceed 57 times per calendar month.

For the purposes of this condition, a cold startup is defined as a startup which occurs after the steam turbine has been shut down for 72 hours or more. A cold startup shall not exceed 166 minutes. The NOx emissions of a cold startup shall not exceed 111 lbs. A non-cold startup shall not exceed 88 minutes. The NOx emissions from a non-cold startup shall not exceed 50 lbs.

The beginning of startup occurs at initial fire in the combustor and the end of startup occurs when the BACT levels are achieved. If during startup the process is aborted the process will count as one startup.

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

[RULE 2012, 5-6-2005]

[Devices subject to this condition : D96]

C1.9 The operator shall limit the number of shut-downs to no more than 62 in any one calendar month.



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

Shutdown time shall not exceed 25 minutes per shutdown. The NOx emissions from a shutdown event shall not exceed 25 lbs.

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

[RULE 2012, 5-6-2005]

[Devices subject to this condition : D96]

- C1.11 The operator shall limit the number of start-ups to no more than 124 in any one calendar month.

The number of startups per day shall not exceed 4 time per day.

A startup shall not exceed 25 minutes. The NOx emissions from a startup shall not exceed 20 lbs. The beginning of startup occurs at initial fire in the combustor and the end of startup occurs when the BACT levels are achieved. If during startup the process is aborted the process will count as one startup.

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

[RULE 2012, 5-6-2005]

[Devices subject to this condition : D104, D110]

- C1.12 The operator shall limit the number of shut-downs to no more than 124 in any one calendar month.

Shutdown time shall not exceed 11 minutes per shutdown. The NOx emissions from a shutdown event shall not exceed 3 lbs.

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

[RULE 2012, 5-6-2005]



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

[Devices subject to this condition : D104, D110]

#### D. Monitoring/Testing Requirements

D12.3 The operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the engine.

[RULE 1303, 5-10-1996; RULE 1303, 12-6-2002; RULE 1470, 5-4-2012; RULE 2012, 5-6-2005; 40CFR 60 Subpart IIII, 6-28-2011]

[Devices subject to this condition : D116]

D12.7 The operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the total hourly throughput of injected ammonia (NH<sub>3</sub>).

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

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

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 2005, 6-3-2011]

[Devices subject to this condition : C101, C107, C113]

D12.8 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 12 months.

The SCR reactor temperature shall be between 734 degrees F and 850 degrees F.



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**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 2005, 6-3-2011]**

[Devices subject to this condition : C101, C107, C113]

D12.9 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.

The pressure differential shall be between 4.0 and 5.8 inches water column.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 2005, 6-3-2011]**

[Devices subject to this condition : C101, C107, C113]

D12.10 The operator shall install and maintain a(n) non-resettable totalizing fuel meter to accurately indicate the fuel usage of the engine.

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

**[RULE 2012, 12-5-2003]**

[Devices subject to this condition : D116]

D28.2 The operator shall conduct source test(s) in accordance with the following specifications:



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

The test shall be conducted at least annually.

The test shall be conducted to determine the CO emissions at the outlet.

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

The test shall be conducted when the equipment is operating under normal conditions. No test shall be required in any one year for which the equipment is not in operation.

The test shall be conducted to determine compliance with the CO emissions by either: (a) conducting a source test using District method 100.1 measured over a 30 minute averaging time, or (b) using a portable analyzer and a District-approved test method.

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

[Devices subject to this condition : D24]

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

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



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

PM2.5	Approved District method	District-approved averaging time	Outlet of the SCR serving this equipment
NH3 emissions	District method 207.1 and 5.3 or EPA method	1 hour	Outlet of the SCR serving this equipment

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

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

The test shall be conducted to determine the oxygen levels in the exhaust. In addition, the tests shall measure the fuel flow rate (CFH), the flue gas flow rate. 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. The protocol shall be submitted to the AQMD engineer no later than 90 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 tests, the identity of the testing lab, a statement from the testing lab certifying that it meets the criteria of Rule 304, and a description of all sampling and analytical procedures.

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 to be 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.

The test shall be conducted when this equipment is operating at loads of 100 and 75 percent of maximum load for the NOx, CO, VOC, and ammonia tests. The PM10 test shall be conducted when this equipment is operating at 100 percent of maximum load.



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**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1703(a)(2) - PSD-BACT, 10-7-1988; RULE 2005, 6-3-2011]**

[Devices subject to this condition : D96, D104, D110]

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
SOX emissions	Approved District method	District-approved averaging time	Fuel Sample
VOC emissions	Approved District method	1 hour	Outlet of the SCR serving this equipment
PM10 emissions	Approved District method	District-approved averaging time	Outlet of the SCR serving this equipment



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

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

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 10 days prior to the test.

The test shall be conducted when the gas turbine is operating at 100 percent of maximum heat input.

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 to be below 70 degrees

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.

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

[RULE 1303, 5-10-1996; RULE 1303, 12-6-2002]

[Devices subject to this condition : D96, D104, D110]

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
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## FACILITY PERMIT TO OPERATE LA CITY, DWP SCATTERGOOD GENERATING STN

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

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

NH3 emissions	District method 207.1 and 5.3 or EPA method 17	1 hour	Outlet of the SCR serving this equipment
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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 10 days prior to the test.

The test shall be conducted at least quarterly during the first twelve months of operation and at least annually thereafter. The NOx concentration, as determined by the certified CEMS, shall be simultaneously recorded during the ammonia slip test. If the CEMS is inoperable or not yet certified, a test shall be conducted to determine the NOx emissions using District Method 100.1 measured over a 60 minute averaging time period.

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

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

[Devices subject to this condition : C101, C107, C113]

**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
NOX emissions	District method 100.1	1 hour	Outlet of the SCR serving this equipment
CO emissions	District method 100.1	1 hour	Outlet of the SCR serving this equipment
PM10 emissions	Approved District method	District-approved averaging time	Outlet of the SCR serving this equipment



## FACILITY PERMIT TO OPERATE LA CITY, DWP SCATTERGOOD GENERATING STN

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

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

The test shall be conducted in accordance with a District approved source test protocol. The protocol shall be submitted to the AQMD engineer no later than 90 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 during the tests, the identity of the testing lab, a statement from the testing lab certifying that it meets the criteria of Rule 304, and a description of all sampling and analytical procedures.

The test shall be conducted after District approval of the source test protocol, but no later than the later of 180 days after the de-rate project. The District shall be notified of the date and time of the test at least 10 days prior to the test.

The test shall be conducted show compliance with the de-rate in maximum capacity from 185 MW to 120.7 MW and from 1750 MMBtu/hr to 1134 MMBtu/hr at HHV.

The test shall be conducted determine compliance with the BACT emission limits. NO<sub>x</sub> and CO concentrations shall be corrected to 3% excess O<sub>2</sub>, dry. In addition, the tests shall measure the fuel flow rate (CFH), the flue gas flow rate, oxygen level in the flue gas. The steam turbine generator output in MW shall also be recorded.

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

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

[Devices subject to this condition : D24]

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



## FACILITY PERMIT TO OPERATE LA CITY, DWP SCATTERGOOD GENERATING STN

### 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

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

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

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

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

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

1.  $K = 7.267 \cdot 10^{-8}$  (lb/scf)/ppm
2.  $C_{co}$  = Average of four consecutive 15 min. average CO concentration, ppm
3.  $F_d$  = 8710 dscf/MMBTU natural gas
4.  $\%O_2 d$  = Hourly average % by vol. O<sub>2</sub> dry, corresponding to  $C_{co}$
5.  $Q_g$  = Fuel gas usage during the hour, scf/hr
6. HHV = Gross high heating value of fuel gas, BTU/scf

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

[Devices subject to this condition : D96, D104, D110]

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



## **FACILITY PERMIT TO OPERATE LA CITY, DWP SCATTERGOOD GENERATING STN**

### **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 and operated no later than 90 days after initial start-up of the turbine, and in accordance with an approved AQMD REG XX CEMS plan application. The operator shall not install the CEMS prior to receiving initial approval from AQMD.

Rule 2012 provisional RATA testing shall be completed and submitted to the AQMD within 90 days of the conclusion of the turbine commissioning period. 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).

**[RULE 1703 - PSD Analysis, 10-7-1988; RULE 2005, 6-3-2011; RULE 2012, 5-6-2005]**

[Devices subject to this condition : D96, D104, D110]



## FACILITY PERMIT TO OPERATE LA CITY, DWP SCATTERGOOD GENERATING STN

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

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

D371.1 The operator shall conduct an inspection for visible emissions from all stacks and other emission points of this equipment whenever this equipment has combusted one million gallons of fuel oil, 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 : D24]

#### **E. Equipment Operation/Construction Requirements**

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

[RULE 1470, 5-4-2012]



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## FACILITY PERMIT TO OPERATE LA CITY, DWP SCATTERGOOD GENERATING STN

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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 : D116]

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 month.

Condition Number D 12- 7

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

[Devices subject to this condition : C101, C107, C113]

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- 8

Condition Number D 12- 9

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

[Devices subject to this condition : C101, C107, C113]

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



## FACILITY PERMIT TO OPERATE LA CITY, DWP SCATTERGOOD GENERATING STN

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

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

For facilities operating under an Order of Abatement or a Settlement Agreement, in the event the specified schedule of installation of APC equipment under these agreements cannot be met, the operator must seek amendment of the Order of Abatement or Settlement Agreement at SCAQMD discretion.

The schedule for installation of APC equipment shall be done in consultation with the California Energy Commission (CEC) and the California Independent System Operator (CISO) to ensure that compliance with air pollution laws and requirements can be achieved with no significant power interruption.

In compliance with all mitigation measures as stipulated in the Environmental Impact Report (SCH No. 2000101008) dated November, 2000 pertaining to the Scattergood SCR project

In compliance with Stipulated order for Abatement Case No. 1263-44 dated 8-29-2000 between the South Coast AQMD and the City of Los Angeles, DWP. In accordance with the Order, LADWP shall have in operation SCR on Boilers 2 and 3 by 6-1-01 and on Boiler 1 by 1-1-02.

[RULE 802, 8-1-1975; CA PRC CEQA, 11-23-1970]

[Devices subject to this condition : D24]

E193.2 The operator shall upon completion of construction, operate and maintain this equipment according to the following specifications:

In accordance with all air quality mitigation measures stipulated in the Final Environmental Impact Report (EIR), State Clearing House #2011011079.

[CA PRC CEQA, 11-23-1970]

[Devices subject to this condition : D96, C101, D104, C107, D110, C113, D116]

E193.3 The operator shall operate and maintain this equipment according to the following requirements:



## FACILITY PERMIT TO OPERATE LA CITY, DWP SCATTERGOOD GENERATING STN

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

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

The commissioning period shall not exceed 460 hours of operation for the combustion turbine from the date of initial turbine start-up.

The operator shall vent this equipment to the CO oxidation catalyst and SCR control system whenever the turbine is in operation after initial commissioning.

The operator shall provide the AQMD with written notification of the initial startup date. Written records of commissioning, startups, and shutdowns shall be maintained and made available upon request from AQMD.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1703(a)(2) - PSD-BACT, 10-7-1988; RULE 2005, 6-3-2011]**

[Devices subject to this condition : D96]

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

The commissioning period shall not exceed 176 hours of operation for the combustion turbine from the date of initial turbine start-up.

The operator shall vent this equipment to the CO oxidation catalyst and SCR control system whenever the turbine is in operation after initial commissioning.

The operator shall provide the AQMD with written notification of the initial startup date. Written records of commissioning, startups, and shutdowns shall be maintained and made available upon request from AQMD.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1703(a)(2) - PSD-BACT, 10-7-1988; RULE 2005, 6-3-2011]**

[Devices subject to this condition : D104, D110]

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



## FACILITY PERMIT TO OPERATE LA CITY, DWP SCATTERGOOD GENERATING STN

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

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

The operator shall calculate and continuously record the NH<sub>3</sub> slip concentration using the following:

$$\text{NH}_3 \text{ (ppmvd)} = [a - b \cdot (c \cdot 1.2) / 1,000,000] \cdot 1,000,000 / b,$$
 where a = NH<sub>3</sub> injection rate (lb/hr)/17(lb/lb-mol), b = dry exhaust flow rate (scf/hr)/(385.5 scf/lb-mol), c = change in measured NO<sub>x</sub> across the SCR, ppmvd at 15 percent O<sub>2</sub>.

The operator shall install a NO<sub>x</sub> analyzer to measure the SCR inlet NO<sub>x</sub> ppm accurate to within +/- 5 percent calibrated at least once every 12 months. The operator shall use the method described 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. The ammonia slip calculation procedure shall be in-effect no later than 90 days after initial startup of the turbine.

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

[Devices subject to this condition : C101, C107, C113]

E193.6 The operator shall operate and maintain this equipment according to the following requirements:



## FACILITY PERMIT TO OPERATE LA CITY, DWP SCATTERGOOD GENERATING STN

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

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

The operator shall record the total net power generated in a calendar month in megawatt-hours.

The operator shall calculate and record greenhouse gas emissions of each calendar month using the following formula:

$$\text{GHG} = 60.139 * \text{FF}$$

Where, GHG is the greenhouse gas emissions in tons of CO<sub>2</sub>e and FF is the monthly fuel usage in millions standard cubic feet.

The operator shall calculate and record the GHG emissions in pounds per net megawatt-hours on the 12-month rolling average. The GHG emissions from this equipment shall not exceed 1,026,128 tons per year. The average GHG emissions shall not exceed 936 lbs per net megawatt-hours.

The operator shall maintain records in a manner approved by the District to demonstrate compliance with this condition. The records shall be made available to AQMD upon request.

[RULE 1714, 11-5-2010]

[Devices subject to this condition : D96]

E193.7 The operator shall operate and maintain this equipment according to the following requirements:



## FACILITY PERMIT TO OPERATE LA CITY, DWP SCATTERGOOD GENERATING STN

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

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

The operator shall record the total net power generated in a calendar month in megawatt-hours. The operator shall calculate and record greenhouse gas emissions of each calendar month using the following formula:

$$GHG = 60.139 * FF$$

Where, GHG is the greenhouse gas emissions in tons of CO<sub>2</sub>e and FF is the monthly fuel usage in millions standard cubic feet.

The operator shall calculate and record the GHG emissions in pounds per net megawatt-hours on the 12-month rolling average. The GHG emissions from this equipment shall not exceed 261,985 tons per year. The average GHG emissions shall not exceed 1,260 lbs per net megawatt-hours.

The operator shall maintain records in a manner approved by the District to demonstrate compliance with this condition. The records shall be made available to AQMD upon request.

[RULE 1714, 11-5-2010]

[Devices subject to this condition : D104, D110]

E193.8 The operator shall operate and maintain this equipment according to the following specifications:



## FACILITY PERMIT TO OPERATE LA CITY, DWP SCATTERGOOD GENERATING STN

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

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

The operator shall limit the fuel usage of this device to no more than 1,134 MMBtu in any one hour. The operator shall limit the power generation of this device to no more than 120.7 megawatts gross. The 1,134 MMBtu/hr heat input rate shall be calculated using the following equation.

Heat input = Heat input of natural gas + Heat input of digester gas.

Heat input of natural gas = natural gas flow rate in scf/hr measured by RECLAIM certified fuel meter \* 1,050 Btu/scf.

Heat input of digester gas = digester gas flow rate in scf/hr measured by RECLAIM certified fuel meter \* higher heating value of the digester gas being used in Btu/scf which is determined by gas chromatography at Hyperion plant. Each batch of digester gas received from Hyperion shall have a separate heat rate determined specifically for the batch.

To demonstrate compliance with this condition the operator shall install and maintain a monitoring and recording device for fuel usage in MMBtu/hr and gross power output in MW.

Records of fuel usage and power generation in gross megawatts shall be kept on site for a minimum of five years. The records shall be available to AQMD personnel upon request.

**[RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996; RULE 3004(a)(4)  
-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition : D24]

E448.1 The operator shall comply with the following requirements:



## FACILITY PERMIT TO OPERATE LA CITY, DWP SCATTERGOOD GENERATING STN

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

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

Change oil and filter every 500 hours of operation or annually, whichever comes first; Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

The engine and the control device shall be operated and maintained in accordance with the manufacturer's written emission-related instructions or procedures developed by the operator that are approved by the engine manufacturer. Changes to those emission-related settings that are set by the manufacturer are not allowed.

Removal of the diesel particulate filter's filter media for cleaning may only occur under the following conditions:

- A. The internal combustion engine shall not be operated for maintenance and testing or any other non-emergency use while the diesel particulate filter media is removed; and
- B. The diesel particulate filter's filter media shall be returned and re-installed within 10 working days from the date of removal; and
- C. The owner or operator shall maintain records indicating the date(s) the diesel particulate filter's filter media was removed for cleaning and the date(s) the filter media was re-installed. Records shall be retained for a minimum period of 36 months.

[RULE 1470, 5-4-2012; 40CFR 60 Subpart III, 6-28-2011]

[Devices subject to this condition : D116]

E448.3 The operator shall comply with the following requirements:



## FACILITY PERMIT TO OPERATE LA CITY, DWP SCATTERGOOD GENERATING STN

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

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

This engine shall not be operated more than 200 hours in any one year, which includes no more than 50 hours per year and 4.2 per month for maintenance and testing as required in rule 1470(c)(2).

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

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

[**RULE 1303, 5-10-1996; RULE 1303, 12-6-2002; RULE 1470, 5-4-2012; 40CFR 60 Subpart III, 6-28-2011**]

[Devices subject to this condition : D116]

E448.4 The operator shall comply with the following requirements:



## FACILITY PERMIT TO OPERATE LA CITY, DWP SCATTERGOOD GENERATING STN

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

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

The engine and the Johnson Matthey CRT+ diesel particulate filter shall be operated in accordance with CARB Executive Order DE-08-009-04.

The engine shall operate at the load level required to achieve 240 degree C for a minimum of 40% of the engine's operating time and a NOx/PM ratio of 15 @ greater than 300 degree C and 20 @ less than 300 degree C. The NOx/PM ratio shall be at least 8 with a preference for 20 or higher.

The engine shall not operate below passive regeneration temperature for more than 720 consecutive minutes. Regeneration is required after 24 consecutive cold starts and 30-minute idle sessions.

Filter cleaning is required after 150 half-hour cold starts with associated regeneration or 1,000 hours of emergency use. The CRTdm, which monitors engine exhaust back pressure and temperature will determine the actual cleaning interval and provide an alert when filter cleaning is required.

The operator shall keep records of any corrective action taken after the CRTdm has notified the operator that a high pressure limit is reached.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1470, 5-4-2012]

[Devices subject to this condition : D116]

#### I. Administrative



## FACILITY PERMIT TO OPERATE LA CITY, DWP SCATTERGOOD GENERATING STN

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

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

1298.1 This equipment shall not be operated unless the facility holds 177809 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 167272 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, 6-3-2011]

[Devices subject to this condition : D96]

1298.2 This equipment shall not be operated unless the facility holds 74745 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 69259 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, 6-3-2011]

[Devices subject to this condition : D104]



## FACILITY PERMIT TO OPERATE LA CITY, DWP SCATTERGOOD GENERATING STN

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

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

I298.3 This equipment shall not be operated unless the facility holds 74745 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 69259 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, 6-3-2011]

[Devices subject to this condition : D110]

I298.4 This equipment shall not be operated unless the facility holds 1477 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 1477 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, 6-3-2011]

[Devices subject to this condition : D116]



## FACILITY PERMIT TO OPERATE LA CITY, DWP SCATTERGOOD GENERATING STN

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

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

#### K. Record Keeping/Reporting

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 90 days after the source test was conducted.

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

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, the fuel flow rate (CFH), the flue gas temperature, and the generator power output (MW) under which the test was conducted.

[RULE 1303, 5-10-1996; RULE 1303, 12-6-2002; RULE 1703 - PSD Analysis, 10-7-1988; RULE 2005, 6-3-2011]

[Devices subject to this condition : D96, D104, D110]

K40.3 The operator shall provide to the District a source test report in accordance with the following specifications:



## FACILITY PERMIT TO OPERATE LA CITY, DWP SCATTERGOOD GENERATING STN

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

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

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

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

All moisture concentration shall be expressed in terms of percent corrected to 3 percent oxygen.

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

[**RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 2005, 6-3-2011**]

[Devices subject to this condition : D24]

K67.4 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):



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## FACILITY PERMIT TO OPERATE LA CITY, DWP SCATTERGOOD GENERATING STN

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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:**

Date of operation, the elapsed time, in hours, and the reason for operation. Records shall be kept and maintained on file for a minimum of five years and made available to district personnel upon request.

An engine operating log listing on a monthly basis the emergency use hours of operation, maintenance and testing hours of operation, and any other hours of use with a description of the reason for operation. Additionally, each time the engine is started manually, the log shall include the date of operation and the timer reading in hours at the beginning and end of operation

The log shall be kept for a minimum of five calendar years prior to the current year and be made available to District personnel upon request. The total hours of operation for the previous calendar year shall be recorded sometime during the first 15 days of January of each year.

**[RULE 1470, 6-1-2007; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; 40CFR 60 Subpart III, 6-28-2011]**

[Devices subject to this condition : D116]

K67.5 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Natural gas fuel use during the commissioning period

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

[Devices subject to this condition : D96, D104, D110]