DOCKETED	DOCKETED					
Docket Number:	00-AFC-14C					
Project Title:	El Segundo Power Redevelopment Project Compliance					
TN #:	205313-4					
Document Title:	ESPFM Revised Draft Permit					
Description:	ESPFM Revised Draft Permit					
Filer:	John Yee					
Organization:	South Coast Air Quality Management District					
Submitter Role:	Public Agency					
Submission Date:	7/9/2015 5:49:50 PM					
Docketed Date:	7/9/2015					

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 1: INTERNAL COMBUSTION						

* (1) (1A) (1B) Denotes RECLAIM emission factor (2) (2A) (2B) Denotes RECLAIM emission rate Denotes RECLAIM concentration limit (4) Denotes BACT emission limit (3) (5) (5A) (5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.) Denotes NSR applicability limit (7)(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.

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	Condition
Process 1: INTERNAL CO	OMBUST	ION	8		
Process 1: INTERNAL CO GAS TURBINE, UNIT NO. 9, NATURAL GAS, GENERAL ELECTRIC, MODEL 7FA.05 FAST START, COMBINED CYCLE, 2,168 MMBTU/HR AT 41 DEGREES F, WITH DRY LOW NOX COMBUSTORS WITH A/N:	D90	D95 C96	NOX: MAJOR SOURCE**	CH2O: 0.091 PPMV NATURAL GAS (8) [40CFR 63 Subpart YYYY, 4-20-2006]; CO: 2 PPMV NATURAL GAS (4) [RULE 1703(a)(2) - PSD-BACT, 10-7-1988]; CO: 2000 PPMV NATURAL GAS (5) [RULE 407, 4-2-1982]; CO2: 1000 LBS/GROSS MWH NATURAL GAS (8) [40CFR 60 Subpart KKKK, 7-6-2006]; CO2: 1100 lbs/net MWH NATURAL GAS (5C) [CCR Title 20, 11-1-2012]; NOX: 2 PPMV NATURAL GAS (4) [RULE 1703(a)(2) - PSD-BACT, 10-7-1988; RULE 2005, 5-6-2005]; NOX: 9.42 LBS/MMSCF NATURAL GAS (1A) [RULE 2012, 5-6-2005]; NOX: 15 PPMV NATURAL GAS (8) [40CFR (0 Subpart KKKK, 7, 6 2006];	A63.3, A99.12, A99.13, A195.12, A195.13, A195.14, A195.18, A327.1, B61.2, C1.7, D29.10, D29.11, D29.12, D82.6, D82.7, E193.2, E193.5, E193.6, E448.3, I297.3, K40.5, K67.6
 (1) (1A) (1B) Denotes RECLAIM emit (3) Denotes RECLAIM corr (5) (5A) (5B) Denotes command and corr (7) Denotes NSR applicability 	centration lim		(6) Denotes air	60 Subpart KKKK, 7-6-2006]; NOX: 30.88 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-6-2005]; PM: 0.01 GRAINS/SCF NATURAL GAS (5B) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; PM: 0.1 GRAINS/SCF NATURAL GAS (5A) [RULE 409, 8-7-1981]; PM: 11 LBS/HR NATURAL GAS (5C) [RULE ECLAIM emission rate ACT emission limit r toxic control rule limit OCFR limit (e.g. NSPS, NESHAPS	

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 1: INTERNAL COM	IBUSTI	ON			
				475, 10-8-1976; <i>RULE 475,</i> <i>8-7-1978</i>]; PM10 : 9.5 LBS/HR NATURAL GAS (5) [RULE 1303(b)(2)-Offset, 5-10-1996; <i>RULE 1303(b)(2)-Offset,</i> <i>12-6-2002</i>]; SO2 : (9) [40CFR 72 - Acid Rain Provisions, 11-24-1997]; SOX : 0.06 LBS/MMBTU NATURAL GAS (8) [40CFR 60 Subpart KKKK, 7-6-2006]; VOC : 2 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; <i>RULE 1303(a)(1)</i> <i>-BACT, 12-6-2002</i>]	
GENERATOR, HRSG					
GENERATOR, SERVING UNIT NO. 9, 222 GROSS MW AT 41 DEGREES F					
STEAM TURBINE, GENERAL ELECTRIC MODEL SC					
GENERATOR, SERVING STEAM TURBINE, 112 GROSS MW AT 41 DEGREES F					

*	(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	on F and G of this permit to determine the monitoring, recor	dkeeping and r	eporting requirements for this device.

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	Condition
Process 1: INTERNAL CO	OMBUSTI	ON			
BURNER, DUCT, NATURAL GAS,	D95	D90	NOX: MAJOR	CH2O: 0.091 PPMV	A99.12,
268 MMBTU/HR AT 41 DEGREES F,			SOURCE**	NATURAL GAS (8) [40CFR	A99.13,
LOCATED IN THE HRSG OF				63 Subpart YYYY,	A195.12,
URBINE NO. 9				4-20-2006]; CO : 2 PPMV	A195.13,
A/N:				NATURAL GAS (4) [RULE	A195.14,
				1703(a)(2) - PSD-BACT,	A327.1,
				10-7-1988]; CO: 2000 PPMV	B61.2, C1.7,
				NATURAL GAS (5) [RULE	D29.10,
				407, 4-2-1982]; NOX: 2	D29.11,
				PPMV NATURAL GAS (4)	D29.12,
				[RULE 1703(a)(2) -	D82.6, D82.7
				PSD-BACT, 10-7-1988; RULE	E193.2,
				2005, 6-3-2011]; NOX: 9.42	E193.5,
				LBS/MMSCF NATURAL	I297.7, K40.5
				GAS (1A) [RULE 2012,	K67.6
				5-6-2005]; NOX: 15 PPMV	
				NATURAL GAS (8) [40CFR	
				60 Subpart KKKK, 7-6-2006];	
				NOX: 30.88 LBS/MMSCF	
				NATURAL GAS (1) [RULE	
				2012, 5-6-2005]; PM : 0.01	
				GRAINS/SCF NATURAL	
				GAS (5C) [RULE 475,	
				10-8-1976; <i>RULE 475,</i>	
				8-7-1978]; PM : 0.1	
				GRAINS/SCF NATURAL	
				GAS (5B) [RULE 409,	
				8-7-1981]; PM: 11 LBS/HR	
				NATURAL GAS (5A) [RULE 475, 10-8-1976; <i>RULE 475</i> ,	
				8-7-1978]; PM10: 1.76	
				LBS/HR NATURAL GAS (5)	
				[RULE 1303(b)(2)-Offset,	
				5-10-1996; <i>RULE 1303(b)(2)</i>	
				-Offset, 12-6-2002]; SO2 : (9)	
(1) (1A) (1B) Denotes RECLAIM emi	ssion feator		(2) (2A) (2B) Denotes RI	U U U	
		+		ACT emission limit	
 (3) Denotes RECLAIM con (5) (5A) (5B) Denotes command and c 				r toxic control rule limit	
		11 111111			E ata)
(7) Denotes NSR applicabil(9) See App B for Emission				CFR limit (e.g. NSPS, NESHAPS n J for NESHAP/MACT requirement	

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 1: INTERNAL CO	MBUST	ION			
CO OXIDATION CATALYST, UNIT NO. 9, BASF, 290 FEET OF TOTAL CATALYST VOLUME A/N: SELECTIVE CATALYTIC REDUCTION, UNIT NO. 9, CORMETECH, 2050 CU.FT.; WIDTH: 29 FT 8 IN; HEIGHT: 70 FT 5 IN;	C96 C97	D90 C97 C96 S99		[40CFR 72 - Acid Rain Provisions, 11-24-1997]; SOX: 0.06 LBS/MMBTU NATURAL GAS (8A) [40CFR 60 Subpart KKKK, 7-6-2006]; VOC: 2 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996] NH3: 5 PPMV NATURAL GAS (4) [RULE 1303(a)(1) -BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]	D12.14, D12.15, D12.16, E179.7,
LENGTH: 1 FT 9 IN WITH A/N: AMMONIA INJECTION, AQUEOUS AMMONIA STACK, SERVING UNIT NO. 9, HEIGHT: 210 FT ; DIAMETER: 20 FT A/N:	S99	C97			E179.8, E193.2, E193.7

*	(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	on F and G of this permit to determine the monitoring, recor	dkeeping and r	eporting requirements for this device.

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	Condition
Process 1: INTERNAL C	OMBUST	ION			
GAS TURBINE, UNIT NO. 11, NATURAL GAS, ROLLS ROYCE, MODEL TRENT 60, SIMPLE CYCLE, 516 MMBTU/HR AT 78 DEGREES F, WITH WATER INJECTION WITH A/N:	D100	C102	NOX: MAJOR SOURCE**	CH2O: 0.091 PPMV NATURAL GAS (8) [40CFR 63 Subpart YYYY, 4-20-2006]; CO: 4 PPMV NATURAL GAS (4) [RULE 1703(a)(2) - PSD-BACT, 10-7-1988]; CO: 2000 PPMV NATURAL GAS (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: 16.16 LBS/MMSCF NATURAL GAS (1A) [RULE 2012, 5-6-2005]; NOX: 25 PPMV NATURAL GAS (8) [40CFR 60 Subpart KKKK, 7-6-2006]; NOX: 96.58 LBS/MMSCF NATURAL GAS (8) [40CFR 60 Subpart KKKK, 7-6-2006]; NOX: 96.58 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-6-2005]; PM: 0.01 GRAINS/SCF NATURAL GAS (5B) [RULE 475, 8-7-1978]; PM: 0.1 GRAINS/SCF NATURAL GAS (5A) [RULE 409, 8-7-1981]; PM: 11 LBS/HR NATURAL GAS (5C) [RULE 475, 10-8-1976; <i>RULE 475,</i> 8-7-1978]; PM10: 5 LBS/HR NATURAL GAS (5) [RULE 1303(b)(2)-Offset, 5-10-1996; <i>RULE 1303(b)(2)-Offset,</i>	A63.4, A99.14, A99.15, A195.15, A195.16, A195.17, A327.1, B61.2, C1.8, D29.10, D29.11, D29.12, D82.6, D82.7, E193.2, E193.5, E193.8, E448.2, I297.4, K40.5 K67.6
 (1) (1A) (1B) Denotes RECLAIM em (3) Denotes RECLAIM co (5) (5A) (5B) Denotes command and (7) Denotes NSR applicabi (9) See App B for Emission 	ncentration lim control emissio lity limit		(6) Denotes air (8) (8A) (8B) Denotes 40	12-6-2002]; SO2: (9) [40CFR	

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 1: INTERNAL CO	MBUST	ION			
				72 - Acid Rain Provisions, 11-24-1997]; SOX: 0.06 LBS/MMBTU NATURAL GAS (8) [40CFR 60 Subpart KKKK, 7-6-2006]; VOC: 2 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1) -BACT, 12-6-2002]	
GENERATOR, 57.4 GROSS MW AT 78 DEGREES F					
CO OXIDATION CATALYST, UNIT NO. 11, PEERLESS, CATALYST VOLUME: 420 CUBIC FEET A/N:	C102	D100 C103			
SELECTIVE CATALYTIC REDUCTION, UNIT NO. 11, PEERLESS, 1272 CU.FT.; WIDTH: 19 FT 6 IN; HEIGHT: 33 FT ; LENGTH: 2 FT 6 IN WITH A/N:	C103	C102 \$105		NH3: 5 PPMV NATURAL GAS (4) [RULE 1303(b)(2) -Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]	D12.17, D12.18, D12.19, E179.9, E179.10, E193.2, E193.7
AMMONIA INJECTION, AQUEOUS AMMONIA					
STACK, SERVING UNIT NO. 11, HEIGHT: 150 FT ; DIAMETER: 11 FT 1 IN A/N:	S105	C103			

*	(1) (1A) (1	B) Denotes	RECLAIM	emission	factor
---	-------------	------------	---------	----------	--------

- (3) Denotes RECLAIM concentration limit
- $\left(5\right)\left(5A\right)\left(5B\right)$ Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits

- $\left(2\right)\left(2A\right)\left(2B\right)$ 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

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	Condition
Process 1: INTERNAL C	OMBUST	ION			
GAS TURBINE, UNIT NO. 12, NATURAL GAS, ROLLS ROYCE, MODEL TRENT 60, SIMPLE CYCLE, 516 MMBTU/HR AT 78 DEGREES F, WITH WATER INJECTION WITH A/N:	D106	C108	NOX: MAJOR SOURCE**	CH2O: 0.091 PPMV NATURAL GAS (8) [40CFR 63 Subpart YYYY, 4-20-2006]; CO: 4 PPMV NATURAL GAS (4) [RULE 1703(a)(2) - PSD-BACT, 10-7-1988]; CO: 2000 PPMV NATURAL GAS (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: 16.16 LBS/MMSCF NATURAL GAS (1A) [RULE 2012, 5-6-2005]; NOX: 25 PPMV NATURAL GAS (8) [40CFR 60 Subpart KKKK, 7-6-2006]; NOX: 96.58 LBS/MMSCF NATURAL GAS (8) [40CFR 60 Subpart KKKK, 7-6-2006]; NOX: 96.58 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-6-2005]; PM: 0.01 GRAINS/SCF NATURAL GAS (5C) [RULE 475, 8-7-1978]; PM: 0.1 GRAINS/SCF NATURAL GAS (5A) [RULE 409, 8-7-1981]; PM: 11 LBS/HR NATURAL GAS (5B) [RULE 475, 10-8-1976; <i>RULE 475,</i> 8-7-1978]; PM10: 5 LBS/HR NATURAL GAS (5) [RULE 1303(b)(2)-Offset, 5-10-1996; <i>RULE 1303(b)(2)-Offset,</i>	A63.4, A99.14, A99.15, A195.15, A195.16, A195.17, A327.1, B61.2, C1.8, D29.10, D29.11, D29.12, D82.6, D82.7, E193.2, E193.2, E193.5, E193.8, E448.2, I297.5, K40.5 K67.6
 (1) (1A) (1B) Denotes RECLAIM em (3) Denotes RECLAIM con (5) (5A) (5B) Denotes command and end (7) Denotes NSR applicabi (9) See App B for Emission 	ncentration lim control emissio lity limit		(6) Denotes air	12-6-2002]; SO2: (9) [40CFR	5, etc.)

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 1: INTERNAL CO	MBUST	ION			
				72 - Acid Rain Provisions, 11-24-1997]; SOX: 0.06 LBS/MMBTU NATURAL GAS (8) [40CFR 60 Subpart KKKK, 7-6-2006]; VOC: 2 PPMV NATURAL GAS (4) [RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2) -Offset, 12-6-2002]	
GENERATOR, 57.4 GROSS MW AT 78 DEGREES F					
CO OXIDATION CATALYST, UNIT NO. 12, PEERLESS, WITH 420 CUBIC FEET OF TOTAL CATALYST VOLUME A/N:	C108	D106 C109			
SELECTIVE CATALYTIC REDUCTION, UNIT NO. 12, PEERLESS, 1272 CU.FT.; WIDTH: 19 FT 6 IN; HEIGHT: 33 FT ; LENGTH: 2 FT 6 IN WITH A/N:	C109	C108 S111		NH3: 5 PPMV NATURAL GAS (4) [RULE 1303(b)(2) -Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]	D12.17, D12.18, D12.19, E179.9, E179.10, E193.2, E193.7
AMMONIA INJECTION, AQUEOUS AMMONIA					
STACK, SERVING UNIT NO. 12, HEIGHT: 150 FT ; DIAMETER: 11 FT A/N:	S111	C109			

(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, 1

(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

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions [*] And Requirements	Conditions
Process 2: EXTERNAL CO	OMBUST	ION			
BOILER, AUXILIARY, NATURAL GAS, CLEAVER BROOKS, MODEL NB-100D-40, WATER TUBE, WITH LOW NOX BURNER, 36 MMBTU/HR WITH A/N: BURNER, NATURAL GAS, WITH LOW NOX BURNER, 36	D112 C113	C114	NOX: LARGE SOURCE**	CO: 50 PPMV NATURAL GAS (4) [RULE 1703(a)(2) - PSD-BACT, 10-7-1988]; CO: 100 PPMV (4) [RULE 1703(a) (2) - PSD-BACT, 10-7-1988]; CO: 2000 PPMV NATURAL GAS (5) [RULE 407, 4-2-1982]; NOX: 5 PPMV NATURAL GAS (4) [RULE 1703(a)(2) - PSD-BACT, 10-7-1988; RULE 2012, 5-6-2005]; PM: 0.1 GRAINS/SCF NATURAL GAS (5) [RULE 409, 8-7-1981]	A63.5, A195.19, A195.20, A195.21, B61.2, C1.9, D29.13, E193.2, E193.9, I297.6, K40.5
MMBTU/HR SELECTIVE CATALYTIC REDUCTION, HALDOR-TOPSOE, MODEL NO. DNX929, SERVING AUXILIARY BOILER, 28 FEET OF TOTAL CATALYST VOLUME, WIDTH: 4 FT 6 IN; HEIGHT: 4 FT 6 IN; LENGTH: 2 FT 2 IN WITH A/N: AMMONIA INJECTION, AQUEOUS AMMONIA	C114	D112		NH3: 5 PPMV NATURAL GAS (4) [RULE 1303(a)(1) -BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]	D12.20, D12.21, D12.22, E179.11, E179.12, E193.2, E193.7

*	(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	on F and G of this permit to determine the monitoring, record	dkeeping and r	eporting requirements for this device.

Section HPage: 11Facility ID:115663Revision #:DRAFTDate:July 09, 2015

FACILITY PERMIT TO OPERATE EL SEGUNDO POWER, LLC

SECTION H: DEVICE ID INDEX

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

SECTION H: DEVICE ID INDEX

Device Index For Section H			
Device ID	Section H Page No.	Process	System
D90	3	1	0
D95	5	1	0
C96	5	1	0
C97	5	1	0
S99	5	1	0
D100	7	1	0
C102	7	1	0
C103	7	1	0
S105	7	1	0
D106	9	1	0
C108	9	1	0
C109	9	1	0
S111	9	1	0
D112	10	2	0
C113	10	2	0
C114	10	2	0

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

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

For the purpose of this condition, the PM emission limit shall be applicable to particulate matter with an aerodynamic diameter of 2.5 microns or less.

The operator shall not operate any of the Gas Turbines No. 5, 7, 9, 11, 12, Boiler No. 4, or the Auxiliary Boiler unless it demonstrates compliance with this limit.

For purposes of demonstrating compliance with the 100 ton per year limit the operator shall determine the PM2.5 emissions for each of the sources at the facility by calculating a 12-month rolling average using the following formula:

PM2.5 = (FF1*EF1 + FF2*EF2 + FF3*EF3 + FF4*EF4 + FF5*EF5 + FF6*EF6 + FF7*EF7)/2000.

Where PM2.5 = PM2.5 emissions in tons per year.

FF1 = Monthly fuel use for Gas Turbine Unit 5 in mmscf. EF1 = 4.66 is lb/mmscf.

FF2 = Monthly fuel use for Gas Turbine Unit 7 in mmscf. EF2 = 4.66 lb/mmscf.

FF3 = Monthly fuel use for Gas Turbine Unit 9 in mmscf. EF3 = 4.51 lb/mmscf.

FF4 = Monthly fuel use for Gas Turbine Unit 11 in mmscf. EF4 = 9.98 lb/mmscf.

FF5 = Monthly fuel use for Gas Turbine Unit 12 in mmscf. EF5 = 9.98 lb/mmscf.

FF6 = Monthly fuel use for the Auxiliary Boiler in mmscf. EF6 = 6.80 lb/mmscf.

FF7 = Monthly fuel use for Boiler No. 4 in mmscf. EF7 = 5.15 lb/mmscf.

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 District approved testing protocol.

El Segundo Power, LLC shall submit written reports of the monthly PM2.5 compliance demonstrations required by this condition. The report submittal shall

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

be included with the semi-annual Title V report as required under Rule 3004(a)(4) (f). Records of the monthly PM2.5 compliance demonstration shall be maintained on site for at least five years and made available upon SCAQMD request.

For the purpose of this condition any one year shall be defined as a period of twelve (12) consecutive months determined on a rolling basis with a new twelve month period beginning on the first day of each calendar month.

[RULE 1325, 6-3-2011; 40CFR 51 Subpart S, 3-8-2007]

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]

F18.1 Acid Rain SO2 Allowance Allocation for affected units are as follows:

Device ID	Boiler ID	Contaminant	Tons in any year
13	Boiler No. 4	SO2	363

a). The allowance allocation(s) shall apply to calendar years 2010 and beyond.

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)

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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

F21.1 Acid Rain SO2 Allowance Allocation for retired units are as follows:

Boiler ID	Contaminant	Tons in year
Boiler No. 1	SO2	357
Boiler No. 2	SO2	62
Boiler No. 3	SO2	171

a). The allowance allocation(s) shall apply to calendar years 2010 and beyond.

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).

c). A unit exempted under 40CFR72.8 shall not emit any sulfur dioxide starting on the date it is exempted.

d). The owners and operators of a unit exempted under 40CFR72.8 shall comply with monitoring requirements in accordance with part 75 and will be allocated allowances in accordance with 40CFR73.

e). A unit exempted under 40CFR73 shall not resume operation unless the designated representative of the source that includes the unit submits an Acid Rain permit application for the unit not less than 24 months prior to the later of January 1, 2000, or the date the unit is to resume operation. On the earlier of the date the written exemption expires or the date an Acid Rain permit application is submitted or is required to be submitted under this paragraph, the unit shall no longer be exempted and shall be subject to all requirements of 40CFR72.

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

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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):

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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 #4 (Device D13) describing in detail the steps and schedule that will be taken to render Boiler #4 permanently inoperable. The retirement plan shall be submitted to SCAQMD within 60 days after the permits to construct for Gas Turbine Units 9, 11, and 12 are issued.

The retirement plan must be approved in writing by SCAQMD. El Segundo Power, LLC shall not commence any construction of the ESPFM Project including Gas Turbine Units 9,11, and 12, Steam Turbine Unit 10, SCR/CO Catalysts for Gas Turbines 9, 11, and 12, and the Auxiliary Boiler before the retirement plan is approved in writing by SCAQMD. If SCAQMD notified El Segundo Power, LLC that the plan is not approvable, El Segundo Power, LLC shall submit a revised plan addressing SCAQMD's concerns within 30 days.

El Segundo Power, LLC shall provide SCAQMD by December 31, 2015 with a notarized statement that Boiler #4 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.

El Segundo Power, LLC shall notify SCAQMD 30 days prior to the implementation of the approved retirement plan for permanent shut down of Boiler #4, or advise SCAQMD as soon as practicable should El Segundo Power, LLC undertake permanent shutdown prior to December 31, 2015.

El Segundo Power, LLC shall cease operation of Boiler #4 within 90 calendar days for the first fire of Gas Turbine Unit 9 (Device D90), Unit 11 (Device D100), or Unit 12 (Device D106), whichever occurs first.

[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):

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

For the circuit breakers serving Units 9, 10, 11 and 12 the facility shall install, operate, and maintain enclosed-pressure SF6 circuit breakers with a maximum annual leakage rate of 1.0% 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 9, 10, 11 and 12 shall not exceed 81 tons per calendar year.

[RULE 1714, 12-10-2012]

DEVICE CONDITIONS

A. Emission Limits

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

CONTAMINANT	EMISSIONS LIMIT
СО	Less than or equal to 39191 LBS IN ANY CALENDAR
	MONTH
VOC	Less than or equal to 7546 LBS IN ANY CALENDAR
	MONTH
PM10	Less than or equal to 8222 LBS IN ANY CALENDAR
	MONTH
SOX	Less than or equal to 1199 LBS IN ANY CALENDAR
	MONTH

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

The above limits apply after the equipment has been fully commissioned.

The operator shall calculate the emission limits by using the calendar monthly fuel use data and the following emission factors: VOC: 2.92 lb/mmscf, PM10: 4.51 lb/mmscf, SOx: 0.71lb/mmscf.

The operator shall calculate the emission limits for CO after the CO CEMS certification based upon readings from the SCAQMD 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 following factors: natural gas commissioning: 22.52 lb/mmscf, normal operation: 13.86 lb/mmscf.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 1703(a)(3) PSD Analysis, 10-7-1988]

[Devices subject to this condition : D90]

A63.4 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
СО	Less than or equal to 10663 LBS IN ANY CALENDAR
	MONTH
VOC	Less than or equal to 1203 LBS IN ANY CALENDAR
	MONTH
PM10	Less than or equal to 2200 LBS IN ANY CALENDAR
	MONTH
SOX	Less than or equal to 153 LBS IN ANY CALENDAR MONTH

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

The above limits apply after the equipment has been fully commissioned. The above limits apply to each turbine individually.

The operator shall calculate the emission limits by using the calendar monthly fuel use data and the following emission factors: VOC: 2.66 lb/mmscf, PM10: 9.98 lb/mmscf, SOx: 0.71lb/mmscf.

The operator shall calculate the emission limits for CO after the CO CEMS certification based upon readings from the SCAQMD 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 following factors: natural gas commissioning: 258.44 lb/mmscf, normal operation: 9.30 lb/mmscf.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 1703(a)(3) PSD Analysis, 10-7-1988]

[Devices subject to this condition : D100, D106]

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

CONTAMINANT	EMISSIONS LIMIT
СО	Less than or equal to 251 LBS IN ANY CALENDAR MONTH
VOC	Less than or equal to 19 LBS IN ANY CALENDAR MONTH
PM10	Less than or equal to 58 LBS IN ANY CALENDAR MONTH
SOX	Less than or equal to 5 LBS IN ANY CALENDAR MONTH

The above limits apply after the equipment has been fully commissioned.

The operator shall calculate the emission limits by using the calendar monthly fuel use data and the following emission factors: VOC: 1.44 lb/mmscf, PM10: 6.80 lb/mmscf, SOx: 0.71 lb/mmscf, CO: 22.66 lb/mmscf.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 1703(a)(3) PSD Analysis, 10-7-1988]

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 : D112]

A99.12 The 30.88 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 : D90, D95]

A99.13 The 9.42 LBS/MMSCF NOX emission limit(s) shall only apply during the interim period after turbine commissioning to report RECLAIM emissions.

[RULE 2012, 5-6-2005]

[Devices subject to this condition : D90, D95]

A99.14 The 96.58 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 : D100, D106]

A99.15 The 16.16 LBS/MMSCF NOX emission limit(s) shall only apply during the interim period after turbine commissioning to report RECLAIM emissions.

[RULE 2012, 5-6-2005]

[Devices subject to this condition : D100, D106]

A195.12 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 commissioning, fast start-ups, traditional start-ups, and shutdown periods. The commissioning period shall not exceed 800 hours.

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

Following the commissioning period, a fast start-up shall not exceed 30 minutes. Following the commissioning period, a traditional start-up shall not exceed 60 minutes. Following the commissioning period, a shutdown shall not exceed 30 minutes. Following the commissioning period, the gas turbine shall be limited to a maximum of 200 total start-ups per year, and a maximum of 50 traditional start-ups per year.

For the purposes of this condition, 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. If during start-up the process is aborted and the turbine is restarted, then the start-up and restart will count as one start-up, provided the total time for the start-up does not exceed 30 operating minutes for a fast start-up and 60 operating minutes for a traditional start-up.

An operating minute is defined as a minute when the turbine is burning fuel.

Written records of commissioning, fast start-ups, traditional start-ups, and shutdowns shall be maintained and made available upon request from the Executive Officer The operator shall maintain records in a manner approved by the District to demonstrate compliance with this condition.

[RULE 1703(a)(2) - PSD-BACT, 10-7-1988; RULE 2005, 6-3-2011]

[Devices subject to this condition : D90, D95]

A195.13 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 commissioning, fast start-ups, traditional start-ups, and shutdown periods. The turbine commissioning period shall not exceed 800 hours.

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

Following the commissioning period, a fast start-up shall not exceed 30 minutes. Following the commissioning period, a traditional start-up shall not exceed 60 minutes. Following the commissioning period, a shutdown shall not exceed 30 minutes. Following the commissioning period, the gas turbine shall be limited to a maximum of 200 total start-ups per year, and a maximum of 50 traditional start-ups per year.

For the purposes of this condition, 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. If during start-up the process is aborted and the turbine is restarted, then the start-up and restart will count as one start-up, provided the total time for the start-up does not exceed 30 operating minutes for a fast start-up and 60 operating minutes for a traditional start-up.

An operating minute is defined as a minute when the turbine is burning fuel.

Written records of commissioning, fast start-ups, traditional start-ups, and shutdowns shall be maintained and made available upon request from the Executive Officer The operator shall maintain records in a manner approved by the District to demonstrate compliance with this condition.

[RULE 1703(a)(2) - PSD-BACT, 10-7-1988]

[Devices subject to this condition : D90, D95]

A195.14 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 commissioning, fast start-ups, traditional start-ups, and shutdown periods. The commissioning period shall not exceed 800 hours.

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

Following the commissioning period, a fast start-up shall not exceed 30 minutes. Following the commissioning period, a traditional start-up shall not exceed 60 minutes. Following the commissioning period, a shutdown shall not exceed 30 minutes. Following the commissioning period, the gas turbine shall be limited to a maximum of 200 total start-ups per year, and a maximum of 50 traditional start-ups per year.

For the purposes of this condition, 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. If during start-up the process is aborted and the turbine is restarted, then the start-up and restart will count as one start-up, provided the total time for the start-up does not exceed 30 operating minutes for a fast start-up and 60 operating minutes for a traditional start-up.

An operating minute is defined as a minute when the turbine is burning fuel.

Written records of commissioning, fast start-ups, traditional start-ups, and shutdowns shall be maintained and made available upon request from the Executive Officer The operator shall maintain records in a manner approved by the District to demonstrate compliance with this condition.

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

[Devices subject to this condition : D90, D95]

A195.15 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 commissioning, start-ups, and shutdown periods. The commissioning period shall not exceed 206 hours.

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

Following the commissioning period, a start-up shall not exceed 30 minutes. Following the commissioning period, a shutdown shall not exceed 20 minutes. Following the commissioning period, the gas turbine shall be limited to a maximum of 480 total start-ups per year.

For the purposes of this condition, 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. If during start-up the process is aborted and the turbine is restarted, then the start-up and restart will count as one start-up, provided the total time for the start-up does not exceed 30 operating minutes. An operating minute is defined as a minute when the turbine is burning fuel.

Written records of commissioning, start-ups and shutdowns shall be maintained and made available upon request from the Executive Officer The operator shall maintain records in a manner approved by the District to demonstrate compliance with this condition.

[RULE 1703(a)(2) - PSD-BACT, 10-7-1988; RULE 2005, 6-3-2011]

[Devices subject to this condition : D100, D106]

A195.16 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 commissioning, start-ups, and shutdown periods. The commissioning period shall not exceed 206 hours.

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

Following the commissioning period, a start-up shall not exceed 30 minutes. Following the commissioning period, a shutdown shall not exceed 20 minutes. Following the commissioning period, the gas turbine shall be limited to a maximum of 480 total start-ups per year.

For the purposes of this condition, 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. If during start-up the process is aborted and the turbine is restarted, then the start-up and restart will count as one start-up, provided the total time for the start-up does not exceed 30 operating minutes. An operating minute is defined as a minute when the turbine is burning fuel.

Written records of commissioning, start-ups, and shutdowns shall be maintained and made available upon request from the Executive Officer The operator shall maintain records in a manner approved by the District to demonstrate compliance with this condition.

[RULE 1703(a)(2) - PSD-BACT, 10-7-1988]

[Devices subject to this condition : D100, D106]

A195.17 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 commissioning, start-ups, and shutdown periods. The commissioning period shall not exceed 206 hours.

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

Following the commissioning period, a start-up shall not exceed 30 minutes. Following the commissioning period, a shutdown shall not exceed 20 minutes. Following the commissioning period, the gas turbine shall be limited to a maximum of 480 total start-ups per year.

For the purposes of this condition, 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. If during start-up the process is aborted and the turbine is restarted, then the start-up and restart will count as one start-up, provided the total time for the start-up does not exceed 30 operating minutes. An operating minute is defined as a minute when the turbine is burning fuel.

Written records of commissioning, start-ups, and shutdowns shall be maintained and made available upon request from the Executive Officer The operator shall maintain records in a manner approved by the District to demonstrate compliance with this condition.

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

[Devices subject to this condition : D100, D106]

A195.18 The 1,100 LBS/NET MW-HR CO2 emission limit(s) is averaged over 12 rolling months. This limit only applies if the capacity factor of the unit is 60% or greater on an annual basis.

[CCR Title 20, 11-1-2012]

[Devices subject to this condition : D90]

A195.19 The 5 PPMV NOX emission limit(s) is averaged over 1 hour, dry basis, at 3 percent oxygen.

This limit shall not apply to boiler commissioning, start-up, and shutdown periods. The commissioning period shall not exceed 80 operating hours. Following the commissioning period, the limit shall apply at all times when the SCR catalyst inlet temperature is in excess of 500 degrees F.

[RULE 1703(a)(2) - PSD-BACT, 10-7-1988; RULE 2005, 6-3-2011]

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 : D112]

A195.20 The 50 PPMV CO emission limit(s) is averaged over 1 hour, dry basis, at 3 percent oxygen.

This limit shall not apply to boiler commissioning, start-up, and shutdown periods, and when the boiler load is less than or equal to 20 percent. The commissioning period shall not exceed 80 operating hours. Following the commissioning period, a start up shall not exceed 120 minutes and a shutdown shall not exceed 60 minutes.

[RULE 1703(a)(2) - PSD-BACT, 10-7-1988]

[Devices subject to this condition : D112]

A195.21 The 100 PPMV CO emission limit(s) is averaged over 1 hour, dry basis, at 3 percent oxygen.

This limit shall apply when the boiler load is greater than 10 percent and less than or equal to 20 percent. This limit shall not apply to boiler commissioning, start-up, and shutdown periods. The commissioning period shall not exceed 80 operating hours. Following the commissioning period, a start up shall not exceed 120 minutes and a shutdown shall not exceed 60 minutes.

[RULE 1703(a)(2) - PSD-BACT, 10-7-1988]

[Devices subject to this condition : D112]

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 : D90, D95, D100, D106]

B. Material/Fuel Type Limits

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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

Compound	Range	grain per 100 scf
H2S	greater than	0.25

This concentration limit is an annual average based on monthly samples of natural gas composition or gas supplier documentation. The gaseous fuel sample shall be tested using District Method 307-91 for total sulfur calculated as H2S

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

[Devices subject to this condition : D90, D95, D100, D106, D112]

C. Throughput or Operating Parameter Limits

C1.7 The operator shall limit the number of start-ups to no more than 62 in any one calendar month.

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

The number of traditonal start-ups shall not exceed 15 per month.

The total number of start-ups shall not exceed 2 per day. The number of traditional start-ups shall not exceed 1 per day.

NOx emissions during a fast start-up shall not exceed 36 lbs. NOx emissions during a traditional start-up shall not exceed 62 lbs.

For the purposes of this condition, 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. If during start-up the process is aborted and the turbine is restarted, then the start-up and restart will count as one start-up, provided the total time for the start-up does not exceed 30 operating minutes for a fast start-up or 60 operating minutes for a traditional start-up.

An operating minute is defined as a minute when the turbine is burning fuel.

The requirements of this condition do not apply during the initial commissioning period.

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

[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 : D90, D95]

C1.8 The operator shall limit the number of start-ups to no more than 60 in any one calendar month.

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

The total number of start-ups shall not exceed 4 per day.

NOx emissions during a start-up shall not exceed 28 lbs.

For the purposes of this condition, 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. If during start-up the process is aborted and the turbine is restarted, then the start-up and restart will count as one start-up, provided the total time for the start-up does not exceed 30 operating minutes. An operating minute is defined as a minute when the turbine is burning fuel.

The requirements of this condition do not apply during the initial commissioning period.

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

[RULE 1703(a)(2) - PSD-BACT, 10-7-1988; RULE 2005, 6-3-2011]

[Devices subject to this condition : D100, D106]

C1.9 The operator shall limit the fuel usage to no more than 0.82 MM cubic feet per day.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 2005, 6-3-2011]

[Devices subject to this condition : D112]

D. Monitoring/Testing Requirements

D12.14 The operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the total hourly throughput of injected ammonia.

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 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 ammonia injection rate shall not exceed 139.8 lb/hr

[RULE 1703(a)(2) - PSD-BACT, 10-7-1988; RULE 2005, 6-3-2011]

[Devices subject to this condition : C97]

D12.15 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 temperature shall remain between 300 degrees F and 650 degrees F

The temperature limitations of this condition do not apply during turbine start-up and shutdown periods and do not apply during the commissioning period

[RULE 1703(a)(2) - PSD-BACT, 10-7-1988; RULE 2005, 6-3-2011]

[Devices subject to this condition : C97]

D12.16 The operator shall install and maintain a(n) pressure gauge to accurately indicate the differential pressure across the SCR catalyst bed in inches of water column.

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 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 drop across the catalyst shall remain between 1 inch of water column and 4 inches of water column

[RULE 1703(a)(2) - PSD-BACT, 10-7-1988; RULE 2005, 6-3-2011]

[Devices subject to this condition : C97]

D12.17 The operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the total hourly throughput of injected ammonia.

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

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

The ammonia injection rate shall not exceed 67.8 lb/hr.

[RULE 1703(a)(2) - PSD-BACT, 10-7-1988; RULE 2005, 6-3-2011]

[Devices subject to this condition : C103, C109]

D12.18 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.

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 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 temperature shall remain between 600 degrees F and 1,125 degrees F

The temperature limitations of this condition do not apply during turbine start-up and shutdown periods and do not apply during the commissioning period

[RULE 1703(a)(2) - PSD-BACT, 10-7-1988; RULE 2005, 6-3-2011]

[Devices subject to this condition : C103, C109]

D12.19 The operator shall install and maintain a(n) pressure gauge to accurately indicate the differential pressure across the SCR catalyst bed in inches of water column.

The operator shall 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 drop across the catalyst shall remain between 1 inch of water column and 12 inches of water column.

[RULE 1703(a)(2) - PSD-BACT, 10-7-1988; RULE 2005, 6-3-2011]

[Devices subject to this condition : C103, C109]

D12.20 The operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the total hourly throughput of injected ammonia.

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 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 ammonia injection rate shall not exceed 5 lb/hr.

[RULE 1703(a)(2) - PSD-BACT, 10-7-1988; RULE 2005, 6-3-2011]

[Devices subject to this condition : C114]

D12.21 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 temperature shall remain between 500 degrees F and 750 degrees F.

The temperature limitations of this condition do not apply during boiler start-up and shutdown periods and do not apply during the commissioning period.

[RULE 1703(a)(2) - PSD-BACT, 10-7-1988; RULE 2005, 6-3-2011]

[Devices subject to this condition : C114]

D12.22 The operator shall install and maintain a(n) pressure gauge to accurately indicate the differential pressure across the SCR catalyst bed in inches of water column.

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 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 drop across the catalyst shall remain between 1 inch of water column and 12 inches of water column.

[RULE 1703(a)(2) - PSD-BACT, 10-7-1988; RULE 2005, 6-3-2011; RULE 2012, 5-6-2005]

[Devices subject to this condition : C114]

	D29.10	The operator shall	conduct source test(s) for the pollutant(s) identified below.	
--	--------	--------------------	---	--

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
NOX emissions	District method 100.1	1 hour	Outlet of the SCR
			serving this equipment
CO emissions	District method 100.1	1 hour	Outlet of the SCR
			serving this equipment
VOC emissions	District Method 25.3	1 hour	Outlet of the SCR
			serving this equipment
PM10	District method 5.1	District-approved	Outlet of the SCR
emissions		averaging time	serving this equipment
PM2.5	EPA Method 201A and	District-approved	Outlet of the SCR
	202	averaging time	serving this equipment
SOX emissions	AQMD Laboratory	District-approved	Fuel sample
	Method 307-91	averaging time	I
NH3 emissions	District method 207.1	1 hour	Outlet of the SCR
	and 5.3 or EPA method	I	serving this equipment
	17		

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

The test shall be conducted after District approval of the source test protocol, but no later than 180 days after initial start-up. 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), and the flue gas flow rate. The combined gas turbine and steam turbine generating output in MW shall also be recorded.

The test shall be conducted in accordance with a District approved source test protocol. The protocol shall be submitted to the SCAQMD engineer no later than 60 days before the proposed test date and shall be approved by District before the test commences.

The test protocol shall include the proposed operating conditions of the gas 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 natural gas fired turbines only, an alternative to AQMD Method 25.3 for the purpose of demonstrating compliance with BACT as determined by CARB and AQMD, may be the following:

a) Triplicate stack gas samples are extracted directly into Summa canisters, maintaining a final canister pressure between 400-500 mm Hg absolute, b) Pressurization of the Summa canisters is done with zero gas analyzed/certified to containing less than 0.05 ppmv total hydrocarbons as carbon, and

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

The use of this alternative method for VOC compliance determination does not mean that it is more accurate than unmodified AQMD Method 25.3, nor does it

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

mean that it may be used in lieu of AQMD Method 25.3 without prior approval, except for the determination of compliance with the BACT level of 2.0 ppmv VOC calculated as carbon set by CARB 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 and PM2.5 tests shall be conducted when this equipment is operating at 100 percent of maximum load.

For the purposes of this condition, alternative test method may be allowed for each of the above pollutants upon concurrence of AQMD, EPA, and CARB.

[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 1401, 9-10-2010; RULE 1703(a)(2) - PSD-BACT, 10-7-1988; RULE 1703(a)(3) PSD Analysis, 10-7-1988; RULE 2005, 6-3-2011]

[Devices subject to this condition : D90, D95, D100, D106]

D29.11 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
SOX emissions	AQMD Laboratory Method 307-91	District-approved averaging time	Fuel sample
VOC emissions	District Method 25.3	1 hour	Outlet of the SCR serving this equipment
PM10 emissions	District method 5.1	District-approved averaging time	Outlet of the SCR serving this equipment

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 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 SCAQMD 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 load.

For natural gas fired turbines only, an alternative to AQMD Method 25.3 for the purpose of demonstrating compliance with BACT as determined by CARB and AQMD, may be the following:

a) Triplicate stack gas samples are extracted directly into Summa canisters, maintaining a final canister pressure between 400-500 mm Hg absolute, b) Pressurization of the Summa canisters is done with zero gas analyzed/certified to containing less than 0.05 ppmv total hydrocarbons as carbon, and

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

The use of this alternative method for VOC compliance determination does not mean that it is more accurate than unmodified AQMD Method 25.3, nor does it mean that it may be used in lieu of AQMD Method 25.3 without prior approval, except for the determination of compliance with the BACT level of 2.0 ppmv VOC calculated as carbon set by CARB 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 emission limit.

For the purposes of this condition, alternative test method may be allowed for each of the above pollutants upon concurrence of AQMD, EPA, and CARB.

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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

[Devices subject to this condition : D90, D95, D100, D106]

D29.12 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	1 hour	Outlet of the SCR
	and 5.3 or EPA method		serving this equipment
	17		

The test shall be conducted and the results submitted to the District within 60 days after the test date. The SCAQMD 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.

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

[Devices subject to this condition : D90, D95, D100, D106]

D29.13 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
CO emissions	District method 100.1	1 hour	Outlet of the SCR

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

PM10	District method 5.1	District-approved	Outlet of the SCR
emissions		averaging time	1

The test shall be conducted after District approval of the source test protocol, but no later than 180 days after initial start-up. 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 compliance with the BACT emission limits. NOx and CO concentrations shall be corrected to 3% excess O2, dry. In addition, the tests shall measure the fuel flow rate (CFH), the flue gas flow rate, oxygen level in the flue gas.

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 60 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 boiler during the tests, the identity of the testing lab, a statement from the testing lab certifying that it meets the criteria of Rule 304, and a description of all sampling and analytical procedures.

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

Minimum load shall be defined as between 10 and 20 percent to show compliance with the 100 ppmv CO limit.

Test results shall be submitted to AQMD within 60 days of the completion of the tests.

[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(a)(2) - PSD-BACT, 10-7-1988; RULE 1703(a)(3) PSD Analysis, 10-7-1988; RULE 2005, 6-3-2011]

[Devices subject to this condition : D112]

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

D82.6 The operator shall install and maintain a CEMS to measure the following parameters:

CO concentration in ppmv

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

The CEMS shall be installed and operated 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 SCAQMD Rule 218 CEMS plan application. The operator shall not install the CEMS prior to receiving initial approval from SCAQMD. Within two weeks of the turbine start-up, the operator shall provide written notification to the District of the exact date of start-up.

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

CO Emission rate, lb/hr = K*Cco*Fd[20.9/(20.9-%O2d)][(Qg*HHV)/1E6], where

K = 7.267E-8 (lb/scf)/ppm

Cco = Average of four consecutive 15 minnute average CO concentrations, ppmv

Fd = 8710 dscf/MMBTU natural gas

%O2d = Hourly average % by vol. O2 dry, corresponding to Cco

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

HHV = Gross higher heating value of fuel, BTU/scf

[RULE 1703(a)(2) - PSD-BACT, 10-7-1988]

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 : D90, D95, D100, D106]

D82.7 The operator shall install and maintain a CEMS to measure the following parameters:

NOX concentration in ppmv

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

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

Rule 2012 provisional RATA testing shall be completed and submitted to the SCAQMD 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(a)(2) - PSD-BACT, 10-7-1988; RULE 2005, 6-3-2011; RULE 2012, 5-6-2005]

[Devices subject to this condition : D90, D95, D100, D106]

E. Equipment Operation/Construction Requirements

E179.7 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 upon the average of the continuous monitoring for that hour.

Condition Number D 12-14

[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]

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 : C97]

E179.8 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 upon the average of the continuous monitoring for that month.

Condition Number D 12-15

Condition Number D 12-16

[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 : C97]

E179.9 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 upon the average of the continuous monitoring for that hour.

Condition Number D 12-17

[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 : C103, C109]

E179.10 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 upon the average of the continuous monitoring for that month.

Condition Number D 12-18

Condition Number D 12-19

[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]

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 : C103, C109]

E179.11 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 upon the average of the continuous monitoring for that hour.

Condition Number D 12-20

[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 : C114]

E179.12 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 upon the average of the continuous monitoring for that month.

Condition Number D 12-21

Condition Number D 12-22

[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 : C114]

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 California Energy Commission decision for the 00-AFC-14C project

[CA PRC CEQA, 11-23-1970]

[Devices subject to this condition : D90, D95, C97, D100, C103, D106, C109, D112, C114]

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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

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

The operator shall provide the SCAQMD with written notification of the initial start-up date.

[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 : D90, D95, D100, D106]

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

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 = 60.179*FF

Where, GHG is the greenhouse gas emissions in tons of CO2e 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 764,191 tons per year. The GHG emissions shall not exceed 968 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 SCAQMD upon request.

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

[RULE 1714, 11-5-2010]

[Devices subject to this condition : D90]

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

The operator shall calculate and continuously record the NH3 slip concentration using the following equation:

NH3 (ppmvd) = $[a-b^*(c^{*1.2})/1,000,000]^*1,000,000/b$, where

a=NH3 injection rate (lb/hr)/17(lb/lb-mol), b= dry exhaust flow rate (scf/hr)/(385.5 scf/lb-mol), c = change in measured NOx across the SCR, ppmvd at 15 percent O2.

The operator shall install a NOx analyzer to measure the SCR inlet NOx 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 equipment.

[RULE 1703(a)(2) - PSD-BACT, 10-7-1988; RULE 2005, 6-3-2011; RULE 2012, 5-6-2005]

[Devices subject to this condition : C97, C103, C109, C114]

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

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 = 60.179*FF

Where, GHG is the greenhouse gas emissions in tons of CO2e 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 141,093 tons per year. The GHG emissions shall not exceed 1,544 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 SCAQMD upon request.

[RULE 1714, 11-5-2010]

[Devices subject to this condition : D100, D106]

E193.9 The operator shall operate and maintain this equipment according to the following requirements:

The operator shall vent this equipemnt to the CO oxidation catalyst and SCR control system whenever the auxiliary boiler is in operation.

The operator shall provide the SCAQMD with written notification of the initial start-up date.

[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 : D112]

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

E448.2 The operator shall comply with the following requirements:

This equipment shall not supply one-third or more of its potential electrical output and more than 219,000 MWh net electrical output to a utility distribution system on a 3 year rolling average basis.

The operator shall record and maintain written records of the amount of electricity supplied to the utility distribution system expressed as a percentage of the total potential electrical output of the turbine, and shall provide such records to the Executive Officer upon request.

The operator shall record and maintain written records of the net electrical output of the turbine to a utility distribution system, expressed in net MWh, and shall provide such records to the Executive Officer upon request.

[40CFR 63 Subpart KKKK, 4-20-2006]

[Devices subject to this condition : D100, D106]

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

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

The total electrical output on a gross basis from combined cycle gas turbine devices D67, D68, D90 and their corresponding steam turbines, simple gas turbine devices D100 and D106 shall not exceed 1,020 MW.

The gross electrical output shall be measured at the two generators serving each of the two Siemens SGT6-5000F combined cycle gas turbines, the two generators serving the GE 7FA combined cycle gas turbine, and the individual generators serving each of the two Trent 60 simple cycle gas turbines.

The monitoring equipment shall meet ANSI Standard No. C12 or equivalent, and have an accuracy of +/- 0.2 percent. The gross electrical output from the generators shall be recorded at the CEMS DAS over a 15 minute averaging time period.

The operator shall record and maintain written records of the maximum amount of electricity produced from this equipment and shall make such records available to the Executive Officer upon request.

The operator shall maintain records for a minimum of five years, in a manner approved by the SCAQMD to demonstrate compliance with this condition.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 2005, 6-3-2011]

[Devices subject to this condition : D90]

I. Administrative

1297.3 This equipment shall not be operated unless the facility holds 131919 pounds of NOx RTCs in its allocation account to offset the annual emissions increase for the first year of operation. RTCs held to satisfy this condition may be transferred only after one year from the initial start of operation. If the 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]

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 : D90]

1297.4 This equipment shall not be operated unless the facility holds 46675 pounds of NOx RTCs in its allocation account to offset the annual emissions increase for the first year of operation. RTCs held to satisfy this condition may be transferred only after one year from the initial start of operation. If the 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 : D100]

1297.5 This equipment shall not be operated unless the facility holds 46675 pounds of NOx RTCs in its allocation account to offset the annual emissions increase for the first year of operation. RTCs held to satisfy this condition may be transferred only after one year from the initial start of operation. If the 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 : D106]

1297.6 This equipment shall not be operated unless the facility holds 564 pounds of NOx RTCs in its allocation account to offset the annual emissions increase for the first year of operation. RTCs held to satisfy this condition may be transferred only after one year from the initial start of operation. If the 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]

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 : D112]

1297.7 This equipment shall not be operated unless the facility holds 16307 pounds of NOx RTCs in its allocation account to offset the annual emissions increase for the first year of operation. RTCs held to satisfy this condition may be transferred only after one year from the initial start of operation. If the 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 : D95]

K. Record Keeping/Reporting

K40.5 The operator shall provide to the District a source test report in accordance with the following specifications:

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

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

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

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

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

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 1703(a)(2) - PSD-BACT, 10-7-1988]

[Devices subject to this condition : D90, D95, D100, D106, D112]

K67.6 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 : D90, D95, D100, D106]