



South Coast Air Quality Management District

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



June 16, 2011

Mr. Thomas Murphy
Vice President
PurEnergy Operating Services, LLC
1732 West Genesee Street
Syracuse, NY 13204

SUBJECT: Title V Facility Minor Permit Revision (Facility ID: 132191)

Dear Mr. Murphy:

Please find attached the Title Page, Table of Contents, and Section D of your Title V Facility Permit. The sections reflect the approval of the minor permit revision requested in your Title V Revision Application No. 518579. This permit revision includes the classification of the turbines at the plant to non-operated major NOx sources. The EPA received a copy of the draft Section D of the Title V Facility Permit and engineering evaluation on April 26, 2011. The 45 review period ended on June 10, 2011 and no comments were received from the EPA.

Equipment	Application No.	Permit Type
Turbine Engine <= 50 MW	518575	PO
Turbine Engine <= 50 MW	518576	PO
Turbine Engine <= 50 MW	518577	PO
Turbine Engine <= 50 MW	518578	PO

Please review the attached sections carefully. Insert the enclosed sections into your Title V Facility Permit and discard the earlier versions. Questions concerning changes to your permit should be directed to Mr. Marcel Saulis at (909) 396-3093.

Sincerely,

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

BLY:AYL:approval
Attachment

cc: Gerardo Rios, EPA Region IX – via email (R9AirPermits_sc@epa.gov)
Ed Pupka, Senior Enforcement Manager



FACILITY PERMIT TO OPERATE

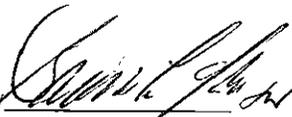
**PUREENERGY OPERATING SERVICES, LLC
661 S COOLEY DR
COLTON, CA 92324**

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 PUREENERGY OPERATING SERVICES, LLC

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FACILITY PERMIT TO OPERATE PUREENERGY OPERATING SERVICES, LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1: INTERNAL COMBUSTION					
System 1: POWER GENERATION, UNIT NO. 1					
TURBINE, NO.1, NATURAL GAS, GENERAL ELECTRIC, MODEL 10B1, SIMPLE CYCLE, 136.5 MMBTU/HR WITH A/N: 518575	D1	C4 C5	NOX: MAJOR SOURCE**	CO: 6 PPMV (4) [RULE 1303(a) (1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 10-20-2000]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 5 PPMV (4) [RULE 2005, 4-9-1999]; NOX: 79 PPMV (8) [40CFR 60 Subpart GG, 3-6-1981]; PM: 0.01 GRAINS/SCF (5B) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; PM: 11 LBS/HR (5A) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; SOX: 150 PPMV (8) [40CFR 60 Subpart GG, 3-6-1981]; VOC: 2 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1) -BACT, 10-20-2000]	A63.1, A63.2, A99.1, A99.2, A99.5, A195.1, A195.2, A327.1, C1.1, C1.2, D12.1, D12.2, D29.1, D82.1, D82.2, E57.1, E313.1, E315.1, E481.1, H23.1, I296.1
GENERATOR, NO. 1, 10.5 MW					
CO OXIDATION CATALYST, NO. 1, SERVING GAS TURBINE NO. 1, TECNIP OR EQUIVALENT, PRECIOUS METAL (PD, PT) ON METAL FOIL, WITH 40-50 CUBIC FEET OF TOTAL CATALYST VOLUME, 22 FT H X 13.5 FT L X 10.5 FT W A/N: 400872	C4	D1 C5			

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

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



FACILITY PERMIT TO OPERATE PUREENERGY OPERATING SERVICES, LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: INTERNAL COMBUSTION					
SELECTIVE CATALYTIC REDUCTION, NO.1 SERVING GAS TURBINE NO. 1, TECHNIP, MONO-NOX VANADIA/TITANNIUM 275 CUBIC FEET, WIDTH: 10 FT 6 IN; HEIGHT: 22 FT ; LENGTH: 13 FT 6 IN WITH A/N: 400872 AMMONIA INJECTION	C5	D1 C4		NH3: 5 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 10-20-2000]	A99.3, A195.3, D12.3, D12.4, D12.5, D28.1, E73.1, E179.1, E179.2
STACK, NO. 1 A/N: 518575	S7				
System 2: POWER GENERATION, UNIT NO. 2					
TURBINE, NO.2, NATURAL GAS, GENERAL ELECTRIC, MODEL 10B1, SIMPLE CYCLE, 136.5 MMBTU/HR WITH A/N: 518576 GENERATOR, NO. 2, 10.5 MW	D8	C11 C12	NOX: MAJOR SOURCE**	CO: 6 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 10-20-2000]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 5 PPMV (4) [RULE 2005, 4-9-1999]; NOX: 79 PPMV (8) [40CFR 60 Subpart GG, 3-6-1981]; PM: 0.01 GRAINS/SCF (5B) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; PM: 11 LBS/HR (5A) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; SOX: 150 PPMV (8) [40CFR 60 Subpart GG, 3-6-1981]; VOC: 2 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 10-20-2000]	A63.1, A63.2, A99.1, A99.2, A99.5, A195.1, A195.2, A327.1, C1.1, C1.2, D12.1, D12.2, D29.1, D82.1, D82.2, E57.1, E313.1, E315.1, E481.1, H23.1, I296.1

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|---|---|
| <p>* (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</p> | <p>(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</p> |
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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 PUREENERGY OPERATING SERVICES, LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1: INTERNAL COMBUSTION					
CO OXIDATION CATALYST, NO. 2, SERVING GAS TURBINE NO. 2, TECNIP OR EQUIVALENT, PRECIOUS METAL (PD, PT) ON METAL FOIL, WITH 40-50 CUBIC FEET OF TOTAL CATALYST VOLUME, 22 FT H X 13.5 FT L X 10.5 FT W A/N: 400874	C11	D8 C12			
SELECTIVE CATALYTIC REDUCTION, NO.2 SERVING GAS TURBINE NO. 2, TECHNIP, MONO-NOX VANADIA/TITANNIA 275 CUBIC FEET, WIDTH: 10 FT 6 IN; HEIGHT: 22 FT ; LENGTH: 13 FT 6 IN WITH A/N: 400874 AMMONIA INJECTION	C12	D8 C11		NH3: 5 PPMV (4) [RULE 1303(a) (1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 10-20-2000]	A99.3, A195.3, D12.3, D12.4, D12.5, D28.1, E73.1, E179.1, E179.2
STACK, NO. 2 A/N: 518576	S14				
System 3: POWER GENERATION, UNIT NO. 3					

- * (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 PUREENERGY OPERATING SERVICES, LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process I: INTERNAL COMBUSTION					
TURBINE, NO.3, NATURAL GAS, GENERAL ELECTRIC, MODEL 10B1, SIMPLE CYCLE, 136.5 MMBTU/HR WITH A/N: 518577	D15	C18 C19	NOX: MAJOR SOURCE**	CO: 6 PPMV (4) [RULE 1303(a) (1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 10-20-2000]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 5 PPMV NATURAL GAS (4) [RULE 2005, 4-9-1999]; NOX: 79 PPMV (8) [40CFR 60 Subpart GG, 3-6-1981]; PM: 0.01 GRAINS/SCF (5B) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; PM: 11 LBS/HR (5A) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; SOX: 150 PPMV (8) [40CFR 60 Subpart GG, 3-6-1981]; VOC: 2 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 10-20-2000]	A63.1, A63.2, A99.1, A99.2, A99.5, A195.1, A195.2, A327.1, C1.1, C1.2, D12.1, D12.2, D29.1, D82.1, D82.2, E57.1, E313.1, E315.1, E481.1, H23.1, I296.1
GENERATOR, NO. 3, 10.5 MW					
CO OXIDATION CATALYST, NO. 3, SERVING GAS TURBINE NO. 3, TECNIP OR EQUIVALENT, PRECIOUS METAL (PD, PT) ON METAL FOIL, WITH 40-50 CUBIC FEET OF TOTAL CATALYST VOLUME, 22 FT H X 13.5 FT L X 10.5 FT W A/N: 400876	C18	D15 C19			

* (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 PUREENERGY OPERATING SERVICES, LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1: INTERNAL COMBUSTION					
SELECTIVE CATALYTIC REDUCTION, NO.3 SERVING GAS TURBINE NO. 3, TECHNIP, MONO-NOX VANADIA/TITANNNIA 275 CUBIC FEET, WIDTH: 10 FT 6 IN; HEIGHT: 22 FT ; LENGTH: 13 FT 6 IN WITH A/N: 400876 AMMONIA INJECTION	C19	D15 C18		NH3: 5 PPMV (4) [RULE 1303(a) (1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 10-20-2000]	A99.3, A195.3, D12.3, D12.4, D12.5, D28.1, E73.1, E179.1, E179.2
STACK, NO. 3 A/N: 518577	S21				
System 4: POWER GENERATION, UNIT NO. 4					
TURBINE, NO.4, NATURAL GAS, GENERAL ELECTRIC, MODEL 10B1, SIMPLE CYCLE, 136.5 MMBTU/HR WITH A/N: 518578 GENERATOR, NO. 4, 10.5 MW	D22	C25 C26	NOX: MAJOR SOURCE**	CO: 6 PPMV (4) [RULE 1303(a) (1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 10-20-2000]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 5 PPMV (4) [RULE 2005, 4-9-1999]; NOX: 79 PPMV (8) [40CFR 60 Subpart GG, 3-6-1981]; PM: 0.01 GRAINS/SCF (5B) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; PM: 11 LBS/HR (5A) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; SOX: 150 PPMV (8) [40CFR 60 Subpart GG, 3-6-1981]; VOC: 2 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 10-20-2000]	A63.1, A63.2, A99.1, A99.2, A99.5, A195.1, A195.2, A327.1, C1.1, C1.2, D12.1, D12.2, D29.1, D82.1, D82.2, E57.1, E313.1, E315.1, E481.1, H23.1, I296.1

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|---|---|
| <p>* (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</p> | <p>(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</p> |
|---|---|

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



FACILITY PERMIT TO OPERATE PUREENERGY OPERATING SERVICES, LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1: INTERNAL COMBUSTION					
CO OXIDATION CATALYST, NO. 4, SERVING GAS TURBINE NO. 4, TECNIP OR EQUIVALENT, PRECIOUS METAL (PD, PT) ON METAL FOIL, WITH 40-50 CUBIC FEET OF TOTAL CATALYST VOLUME, 22 FT H X 13.5 FT L X 10.5 FT W A/N: 400878	C25	D22 C26			
SELECTIVE CATALYTIC REDUCTION, NO.4 SERVING GAS TURBINE NO. 4, TECHNIP, MONO-NOX VANADIA/TITANNIA 275 CUBIC FEET, WIDTH: 10 FT 6 IN; HEIGHT: 22 FT ; LENGTH: 13 FT 6 IN WITH A/N: 400878 AMMONIA INJECTION	C26	D22 C25		NH3: 5 PPMV (4) [RULE 1303(a) (1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 10-20-2000]	A99.3, A195.3, D12.3, D12.4, D12.5, D28.1, E73.1, E179.1, E179.2
STACK, NO. 4 A/N: 518578	S28				
Process 2: INORGANIC CHEMICAL STORAGE					
STORAGE TANK, FIXED ROOF, WITH VAPOR RETURN LINE, AQUEOUS AMMONIA, 19% SOLUTION, 10,000 GALLONS OR SMALLER A/N: 400430	D29				C157.1, E144.1
Process 3: R-219 EXEMPT EQUIPMENT SUBJECT TO SOURCE SPECIFIC RULES					
RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS	E30			ROG: (9) [RULE 1113, 11-8-1996; RULE 1113, 7-13-2007; RULE 1171, 11-7-2003; RULE 1171, 2-1-2008]	K67.2

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|---|---|
| <p>* (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</p> | <p>(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</p> |
|---|---|

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



**FACILITY PERMIT TO OPERATE
PUREENERGY OPERATING SERVICES, LLC**

SECTION D: DEVICE ID INDEX

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



**FACILITY PERMIT TO OPERATE
PUREENERGY OPERATING SERVICES, LLC**

SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D1	1	1	1
C4	1	1	1
C5	2	1	1
S7	2	1	1
D8	2	1	2
C11	3	1	2
C12	3	1	2
S14	3	1	2
D15	4	1	3
C18	4	1	3
C19	5	1	3
S21	5	1	3
D22	5	1	4
C25	6	1	4
C26	6	1	4
S28	6	1	4
D29	6	2	0
E30	6	3	0



FACILITY PERMIT TO OPERATE PUREENERGY OPERATING SERVICES, LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

FACILITY CONDITIONS

F9.1 Except for open abrasive blasting operations, the operator shall not discharge into the atmosphere from any single source of emissions whatsoever any air contaminant for a period or periods aggregating more than three minutes in any one hour which is:

(a) As dark or darker in shade as that designated No.1 on the Ringelmann Chart, as published by the United States Bureau of Mines; or

(b) Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in subparagraph (a) of this condition.

[RULE 401, 3-2-1984; RULE 401, 9-11-1998]

DEVICE CONDITIONS

A. Emission Limits

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

CONTAMINANT	EMISSIONS LIMIT
CO	Less than or equal to 4984 LBS IN ANY ONE MONTH
PM10	Less than or equal to 2380 LBS IN ANY ONE MONTH
VOC	Less than or equal to 972 LBS IN ANY ONE MONTH
SOX	Less than or equal to 1224 LBS IN ANY ONE MONTH



FACILITY PERMIT TO OPERATE PUREENERGY OPERATING SERVICES, LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

For the purposes of this condition, the limit(s) shall be based on the total combined facility emissions.

The operator shall calculate the emission limit(s) using monthly fuel usage and the following emission factors: PM10 6.731 lb/mmcf, VOC 2.69 lb/mmcf and SOx 3.469 lb/mmcf

The operator shall calculate the emission limit(s) for the compliance with the monthly CO emission limit through valid CEMS data. In absence of valid CEMS data, the operator shall calculate the monthly CO emissions using monthly fuel use data and the following emission factor: CO 12.25 lbs/mmcf

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 10-20-2000]

[Devices subject to this condition : D1, D8, D15, D22]

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

CONTAMINANT	EMISSIONS LIMIT
CO	Less than or equal to 166 LBS IN ANY ONE DAY
PM10	Less than or equal to 79 LBS IN ANY ONE DAY
VOC	Less than or equal to 32 LBS IN ANY ONE DAY
SOX	Less than or equal to 41 LBS IN ANY ONE DAY



FACILITY PERMIT TO OPERATE PUREENERGY OPERATING SERVICES, LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

The operator shall calculate the emission limit(s) using daily fuel usage and the following emission factors: PM10 6.731 lbs/mmescf, VOC 2.69 lbs/mmescf and SOx 3.469 lbs/mmescf

The operator shall calculate the emission limit(s) for compliance with daily CO emission limit using valid CEMS data. In absence of valid CEMS data, the operator shall calculate the daily CO emissions using daily fuel usage and the following emission factor: CO 12.25 lbs/mmescf.

For the purposes of this condition, the limit(s) shall be based on the total combined facility emissions.

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

[Devices subject to this condition : D1, D8, D15, D22]

- A99.1 The 5 PPM NOX emission limit(s) shall not apply during retuning of turbines resulting from maintenance or repair of combustion systems, startup and shutdown periods. The Start-up time shall not exceed 60 minutes for each start-up and shutdown time shall not exceed 15 minutes for each shutdown. Retuning of turbines shall not exceed 8 hours per turbine per year. Written records of retuning, start-ups and shutdown shall be maintained and made available upon request from the Executive Officer.

[RULE 2005, 4-9-1999]

[Devices subject to this condition : D1, D8, D15, D22]



FACILITY PERMIT TO OPERATE PURENERGY OPERATING SERVICES, LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

A99.2 The 6 PPM CO emission limit(s) shall not apply during retuning of turbines resulting from maintenance or repair of combustion systems, startup and shutdown periods. The Start-up time shall not exceed 60 minutes for each start-up and shutdown time shall not exceed 15 minutes for each shutdown. Retuning of turbines shall not exceed 8 hours per turbine per year. Written records of retuning, start-ups and shutdown shall be maintained and made available upon request from the Executive Officer.

[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 : D1, D8, D15, D22]

A99.3 The 5 PPM NH₃ emission limit(s) shall not apply during retuning of turbines resulting from maintenance or repair of combustion systems, startup and shutdown periods. The Start-up time shall not exceed 60 minutes for each start-up and shutdown time shall not exceed 15 minutes for each shutdown. Retuning of turbines shall not exceed 8 hours per turbine per year. Written records of retuning, start-ups and shutdown shall be maintained and made available upon request from the Executive Officer.

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

[Devices subject to this condition : C5, C12, C19, C26]

A99.5 The 18.45 LBS/MMSCF CO emission limit(s) shall only apply to report CO emissions during any startup or shutdown period when CO emissions are not being measured by a certified or provisionally certified CEMS.

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

[Devices subject to this condition : D1, D8, D15, D22]



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

A195.1 The 5 PPMV NOX emission limit(s) is averaged over 60 minutes at 15 percent O2 dry.

[RULE 2005, 4-9-1999]

[Devices subject to this condition : D1, D8, D15, D22]

A195.2 The 6 PPMV CO emission limit(s) is averaged over 60 minutes at 15 percent oxygen dry.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 10-20-2000; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 10-20-2000]

[Devices subject to this condition : D1, D8, D15, D22]

A195.3 The 5 PPMV NH3 emission limit(s) is averaged over 60 mins at 15 percent O2 dry. The operator shall calculate and continuously record the NH3 slip concentration using the following: $NH_3 \text{ (ppmv)} = [a - (b * (c * 1.2)/1000000)] * (1000000/b)$, where a = NH3 injection rate (lb/hr)/(17 lb/lb-mole), b = dry exhaust gas flow rate (lb/hr)/(29 lb/lb-mole) and c = change in measured NOx across the SCR (ppmvd at 15 percent O2).



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

The operator shall install and maintain a NOx analyzer to measure the SCR inlet NOx ppmv accurate to plus or minus 5 percent and calibrated at least once every 12 months.

The determination of ammonia slip based on the above formula shall be adjusted with correction factors. The operator shall determine a equipment-specific procedure for the correction of the formula by comparing the results of the formula with the actual ammonia slip measurement during the performance testing. New correction factors and any changes to the factors are subject to AQMD approval..

The operator shall use the above described method or another alternative method approved by the Executive Officer.

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

The maintenance of the NOx analyzer and the requirement to calculate and continuously record NH3 slip concentration shall not be required during the period of time that the turbine, to which this control system is connected, is non-operational.

For the purposes of this condition, non-operation shall be defined as zero fuel flow to the turbine verified by the removal of a section of fuel feed line(s) and the placement of a blind flange at each end of the fuel feed line(s). NOx analyzer maintenance and NH3 slip recording shall commence on the day the turbine first fires fuel.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 10-20-2000]

[Devices subject to this condition : C5, C12, C19, C26]

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.



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

[RULE 475, 10-8-1976; RULE 475, 8-7-1978]

[Devices subject to this condition : D1, D8, D15, D22]

C. Throughput or Operating Parameter Limits

C1.1 The operator shall limit the fuel usage to no more than 354 MM cubic feet in any one calendar month.

For the purpose of this condition, fuel usage shall be defined as the total natural gas usage of all four turbines.

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

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

[Devices subject to this condition : D1, D8, D15, D22]

C1.2 The operator shall limit the fuel usage to no more than 1188 MM cubic feet per year.

For the purpose of this condition, fuel usage shall be defined as the total natural gas usage of all four turbines.

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

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

[Devices subject to this condition : D1, D8, D15, D22]



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

C157.1 The operator shall install and maintain a pressure relief valve set at 20 or higher psig.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 10-20-2000]

[Devices subject to this condition : D29]

D. Monitoring/Testing Requirements

D12.1 The operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the turbine.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 10-20-2000]

[Devices subject to this condition : D1, D8, D15, D22]

D12.2 The operator shall install and maintain a(n) non-resettable totalizing fuel flow meter to accurately indicate the fuel usage being supplied to the turbine.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 10-20-2000]

[Devices subject to this condition : D1, D8, D15, D22]

D12.3 The operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the total hourly throughput of injected ammonia (NH₃).



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The operator shall 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 operator shall maintain the ammonia injection rate between 1 and 7 lbs per hour

The requirements to continuously record ammonia flow shall not be required during the period of time that the turbine, to which this control system is connected, is non-operational. For the purposes of this condition, non-operation shall be defined as zero fuel flow to the turbine verified by the removal of a section of fuel feed line(s) and the placement of a blind flange at each end of the fuel feed line(s). Ammonia flow recording shall commence on the day the turbine first fires fuel.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 10-20-2000]

[Devices subject to this condition : C5, C12, C19, C26]

D12.4 The operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature of the exhaust at the inlet to the SCR reactor.

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

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

The requirements to continuously record temperature shall not be required during the period of time that the turbine, to which this control system is connected, is non-operational. For the purposes of this condition, non-operation shall be defined as zero fuel flow to the turbine verified by the removal of a section of fuel feed line(s) and the placement of a blind flange at each end of the fuel feed line(s). Temperature recording shall commence on the day the turbine first fires fuel.



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

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 10-20-2000; RULE 2005, 4-9-1999]

[Devices subject to this condition : C5, C12, C19, C26]

D12.5 The operator shall install and maintain a(n) pressure gauge to accurately indicate the 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 operator shall maintain the pressure drop across the SCR bed between 2 and 5 inches of water column

The requirements to continuously record pressure shall not be required during the period of time that the turbine, to which this control system is connected, is non-operational. For the purposes of this condition, non-operation shall be defined as zero fuel flow to the turbine verified by the removal of a section of fuel feed line(s) and the placement of a blind flange at each end of the fuel feed line(s). Pressure recording shall commence on the day the turbine first fires fuel.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 10-20-2000]

[Devices subject to this condition : C5, C12, C19, C26]

D28.1 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 and the results submitted to the District within 60 days after the test date.

The test shall be conducted at least quarterly during the first twelve months of operation and at least annually thereafter.

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 demonstrate compliance with the Rule 1303 concentration limit.

The test shall be conducted to determine the NH₃ emissions using District Method 207.1 and 5.3 or EPA Method 17 measured over a 60-minute averaging time period. The NO_x concentration, as determined by reading the CEMS, shall be simultaneously recorded during the test. If the CEMS is inoperable, a test shall be conducted to determine the NO_x emissions using District Method 100.1 measured over a 60-minute averaging time period.

Source test shall be conducted when this equipment is operating. The annual source test shall not be required during the period of time that the turbine, to which this control system is connected, is non-operational. For the purposes of this condition, non-operation shall be defined as zero fuel flow to the turbine verified by the removal of a section of fuel feed line(s) and the placement of a blind flange at each end of the fuel feed line(s). The source test shall be performed within 45 calendar days from the day the turbine first fires fuel.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 10-20-2000]

[Devices subject to this condition : C5, C12, C19, C26]

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



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

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
CO emissions	District method 100.1	1 hour	Outlet of the SCR serving this equipment
NOX emissions	District method 100.1	1 hour	Outlet of the SCR serving this equipment
PM10 emissions	District Method 5.2 Modified with EPA Method 201A Cyclone (filterables compliance, condensables information)	1 hour	Outlet of the SCR serving this equipment
ROG emissions	Approved District method	1 hour	Outlet of the SCR serving this equipment

The test(s) shall be conducted at least once every three years and as per District approved protocol. within 60 days after the source test, the operator shall submit the source test report to the District..

Source test shall be conducted when this equipment is operating. The source test shall not be required during the period of time that the turbine is non-operational. For the purposes of this condition, non-operation shall be defined as zero fuel flow to the turbine verified by the removal of a section of fuel feed line(s) and the placement of a blind flange at each end of the fuel feed line(s). The source test shall be performed within 45 calendar days from the day the turbine first fires fuel.

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

[Devices subject to this condition : D1, D8, D15, D22]



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

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

CO concentration in ppmv

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

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

The CEMS shall be installed, operated and maintained in accordance with an approved AQMD Rule 218 CEMS plan application. The operator shall not install CEMS prior to receiving the initial approval from AQMD

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

[**RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 10-20-2000; RULE 1303(b)(1)-Modeling, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 10-20-2000]**

[Devices subject to this condition : D1, D8, D15, D22]

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



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

The CEMS shall be installed and operating no later than 12 months after the initial start-up of the turbine. During the interim period between the initial start-up and the provisional certification date of the CEMS, the operator shall comply with the monitoring requirements of Rule 2012(h)(2) and 2012(h)(3). Within 2 weeks of the turbine start-up date, the operator shall provide written notification to the District of the exact start-up date

NOX concentration in ppmv

The NO_x CEMS shall be installed, maintained and operated in the accordance with the requirements of Rule 2012, including the requirements of Rule 2012(c)(9) for sources qualifying as non-operated major NO_x sources.

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

[Devices subject to this condition : D1, D8, D15, D22]

E. Equipment Operation/Construction Requirements

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

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 10-20-2000; RULE 1303(b)(1)-Modeling, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 10-20-2000; RULE 2005, 4-9-1999]

[Devices subject to this condition : D1, D8, D15, D22]

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

The inlet temperature to the SCR reactor is 800 Degrees F or less, not to exceed 1 hour during start-ups and not to exceed 15 minutes during shutdowns.



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

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 10-20-2000]

[Devices subject to this condition : C5, C12, C19, C26]

E144.1 The operator shall vent this equipment, during filling, only to the vessel from which it is being filled.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 10-20-2000]

[Devices subject to this condition : D29]

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

Condition Number D 12- 3

Condition Number D 12- 4

Condition Number A 195- 3

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 10-20-2000]

[Devices subject to this condition : C5, C12, C19, C26]

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

Condition Number D 12- 5



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

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 10-20-2000]

[Devices subject to this condition : C5, C12, C19, C26]

E313.1 This device is classified as a non-operated major NO_x source as defined under Rule 2012 and shall not be operated unless the Facility Permit holder provides written notification to the Executive Officer 30 days prior to starting operation. In order to maintain the non-operational classification, the Facility Permit holder shall:

- (a) Remove a section of the fuel feed line(s) to the device and place a blind flange on both ends of the fuel feed line(s); and
- (b) Remove a major component of the source necessary for its operation.

Removal of parts or components solely to qualify the device for non-operated classification pursuant to this condition, or replacement of the same removed parts or components resulting in the device no longer being classified as non-operated shall not be deemed to affect the potential to emit within the meanings of Rule 2005, Regulation XIII and Regulation XXX.

This device shall not be operated unless the Facility Permit holder submits a complete application for change of condition to remove this condition from the facility permit 30 days prior to starting operation.

For purposes of complying with condition I296.1 while the device is complying with a non-operational status, a NO_x annual emissions increase of 0 pounds shall be used due to the non-operational status. This 0 pound emission increase shall become void once the subject device is operated and the operator shall fully comply with Condition I296.1 for the current compliance year without proration of the specified emission increase amount prior to commencing operation.

[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 : D1, D8, D15, D22]

E315.1 Once this device is operated, it shall no longer be classified as non-operational. This device shall also meet the monitoring requirements of Rule 2012, subparagraph (c)(2)(A) or (c)(2)(B) no later than 30 calendar days after the start of operation except as provided in Rule 2012, paragraph (c)(10).

[RULE 2012, 5-6-2005]

[Devices subject to this condition : D1, D8, D15, D22]

E481.1 This device qualifies as an intermittently operated source. The operator may postpone the due date of a semi-annual assessment for the continuous emission monitoring system (CEMS) serving this device to the end of the next calendar quarter by conducting an alternative relative accuracy test audit during the same quarter the semi-annual assessment is due. The semi-annual assessment due date shall only be postponed if the alternative relative accuracy test audit is conducted according to and meet the criteria specified under Rule 2012, Appendix A, Attachment C, Subparagraph B.2.d, as amended January 7, 2005.

[RULE 2005, 5-6-2005]

[Devices subject to this condition : D1, D8, D15, D22]

H. Applicable Rules

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

Contaminant	Rule	Rule/Subpart
Sulfur compounds	District Rule	431.1



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

[RULE 431.1, 6-12-1998]

[Devices subject to this condition : D1, D8, D15, D22]

I. Administrative

I296.1 This equipment shall not be operated unless the operator demonstrates to the Executive Officer that the facility holds sufficient RTCs to offset the annual emissions increase for the first 12 months of operation. In addition, this equipment shall not be operated unless the operator demonstrates to the Executive Officer that, at the commencement of each compliance year after the start of operation, the facility holds sufficient RTCs in an amount equal to the annual emissions increase.

For the purposes of this condition, the annual emission increase is 23280 lbs. of NO_x

RTCs held for the purpose of demonstrating compliance with this condition either at the commencement of initial operation or of a compliance year may be sold only after 12 months of start of initial operation or after the fourth quarter of the applicable compliance year, respectively.

In lieu of holding RTCs for the entire duration specified above, RTCs held for the purpose of demonstrating compliance with this condition may be sold as specified below, provided quarterly emission does not exceed the corresponding quarterly limit listed in the table below. The amount available for sale shall be the quarterly emission limit listed minus the actual emission reportable pursuant to RECLAIM Monitoring, Recordkeeping, and Reporting protocols. Such amount may be sold only after the end of the subject quarter. If the quarterly certified emissions for any quarter exceed the corresponding quarterly emission limit, the facility may only sell RTCs acquired pursuant to Rule 2005(f) for that compliance year after the fourth quarter of that compliance year. This early sale option shall permanently be unavailable in the event that quarterly emissions exceeded the corresponding quarterly limits for a total of 3 times in any five consecutive years.



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

Calendar Quarter	Emission Limit (lbs.)
January 1 through March 31	1164
April 1 through June 30	1164
July 1 through September 30	18624
October 1 through December 31	2328

In lieu of complying with an emission increase of 23280 pounds of NOx , the emission increase shall be 0 lbs of NOx while the device is complying fully with Condition E313.1 which lists the terms for non-operational status.

[RULE 2012, 5-6-2005]

[Devices subject to this condition : D1, D8, D15, D22]

K. Record Keeping/Reporting

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

For architectural applications where no thinners, reducers, or other VOC containing materials are added, maintain semi-annual records for all coating consisting of (a) coating type, (b) VOC content as supplied in grams per liter (g/l) of materials for low-solids coatings, (c) VOC content as supplied in g/l of coating, less water and exempt solvent, for other coatings.

For architectural applications where thinners, reducers, or other VOC containing materials are added, maintain daily records for each coating consisting of (a) coating type, (b) VOC content as applied in grams per liter (g/l) of materials used for low-solids coatings, (c) VOC content as applied in g/l of coating, less water and exempt solvent, for other coatings.



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

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

[Devices subject to this condition : E30]