



South Coast Air Quality Management District

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

January 31, 2013

Mr. Gerardo Rios
Chief – Permits Office
U. S. EPA, Region IX
75 Hawthorne Street, Air 3
San Francisco, CA 94105

Subject: Wildflower Energy, LP/Indigo Generation, LLC (ID 127299) – Change of Conditions

Dear Mr. Rios:

Wildflower Energy, LP/Indigo Generation, LLC has proposed to revise its Title V permit under A/N 543959 by the removal of the existing SCR catalyst and its subsequent replacement with a catalyst from a different manufacturer. This proposed permit revision is considered as a “minor permit revision” to their Title V permit. Attached for your review is the evaluation and Section D of the Facility Permit for the proposed revision. With your receipt of the proposed revision today, we will note that the EPA 45-day review period begins on January 31, 2013.

If you have any questions or need additional information regarding the proposed permit revision, please call Mr. Kenneth L. Coats (909) 396-2527.

Very truly yours,

A handwritten signature in black ink, appearing to read 'Brian L. Yeh', is written over a faint, illegible typed name.

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

cc: Audun Aaberg, Wildflower Energy, LP/Indigo Generation, LLC

BLY:AYL:JTY:KLC
Attachments

FACILITY PERMIT TO OPERATE WILDFLOWER ENERGY LP/INDIGO GEN., 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: GAS TURBINES					
GAS TURBINE, UNIT NO 300. NATURAL GAS, GENERAL ELECTRIC, MODEL LM6000 SPRINT, SIMPLE CYCLE, WITH STEAM OR WATER INJECTION, 450 MMBTU/HR WITH A/N: 383044	D1	C3	NOX: MAJOR SOURCE**	CO: 6 PPMV NATURAL GAS (4) [RULE 1703 - PSD Analysis, 10-7-1988]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 5 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 2005, 4-9-1999; RULE 2005, 4-20-2001]; NOX 115 PPMV NATURAL GAS (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]; SO ₂ (9) [40CFR 72 - Acid Rain Provisions, 11-24-1997]; SOX: 150 PPMV (8) [40CFR 60 Subpart GG, 3-6-1981]; VOC: 2 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)- BACT, 10-20-2000]	A63.1, A63.3, A99.1, A99.2, A195.1, A195.2, A327.1, D12.4, D29.1, D29.2, D82.1, D82.2, E57.1, E73.1, I298.1, K40.1
GENERATOR, 49.9 MW					
CO OXIDATION CATALYST, SERVING GAS TURBINE NO 300. PLATINUM ON ALUMINA A/N: 451960	C3	D1 C4			

* (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 WILDFLOWER ENERGY LP/INDIGO GEN., 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: GAS TURBINES					
SELECTIVE CATALYTIC REDUCTION, SERVING GAS TURBINE NO 300, CORMETECH, MODEL NO. CM27LHT, VANADIA-TITANIA, 63.6 CU.FT. WITH A/N: AMMONIA INJECTION, GRID	C4	C3		NH3: 5 PPMV (4) [RULE 1303(a) (1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 10-20-2000]	A195.3. D12 1, D12 2. D12 3, E179 1, E179.2

* (1) (1A) (1B) Denotes RECLAIM emission factor
 (3) Denotes RECLAIM concentration limit
 (5) (5A) (5B) Denotes command and control emission limit
 (7) Denotes NSR applicability limit
 (9) See App B for Emission Limits
 (2) (2A) (2B) Denotes RECLAIM emission rate
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 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
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FACILITY PERMIT TO OPERATE WILDFLOWER ENERGY LP/INDIGO GEN., 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: GAS TURBINES					
GAS TURBINE, UNIT NO 400, NATURAL GAS, GENERAL ELECTRIC, MODEL LM6000 SPRINT, SIMPLE CYCLE, WITH STEAM OR WATER INJECTION, 450 MMBTU/HR WITH A/N: 383810	D6	C8	NOX: MAJOR SOURCE**	CO: 6 PPMV NATURAL GAS (4) [RULE 1703 - PSD Analysis, 10-7-1988]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 5 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 2005, 4-9-1999; RULE 2005, 4-20-2001], NOX 115 PPMV NATURAL GAS (8) [40CFR 60 Subpart GG, 3-6-1981], PM: 0.01 GRAINS/SCF (5B) [RULE 475, 10-8-1976; RULE 475, 8-7-1978], PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; PM 11 LBS/HR (5A) [RULE 475, 10-8-1976; RULE 475, 8-7-1978], SO2: (9) [40CFR 72 - Acid Rain Provisions, 11-24-1997]; SOX 150 PPMV (8) [40CFR 60 Subpart GG, 3-6-1981], VOC: 2 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1) -BACT, 10-20-2000]	A63.2, A63.3, A99.1, A99.2, A195.1, A195.2, A327.1, D12.4, D29.1, D29.2, D82.1, D82.2, E57.1, E73.1, I298.1, K40.1
GENERATOR, 49.9 MW CO OXIDATION CATALYST, SERVING GAS TURBINE NO 400, PLATINUM ON ALUMINA A/N: 451961	C8	D6 C9			

* (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 WILDFLOWER ENERGY LP/INDIGO GEN., 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: GAS TURBINES					
SELECTIVE CATALYTIC REDUCTION, SERVING GAS TURBINE NO 400, CORMETECH, MODEL NO. CM27LHT, VANADIA-TITANIA, 63.6 CU.FT. WITH A/N: AMMONIA INJECTION, GRID	C9	C8		NH3: 5 PPMV (4) [RULE 1303(a) (1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 10-20-2000]	A195.3, D12.1, D12.2, D12.3, E179.1, E179.2

- * (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 WILDFLOWER ENERGY LP/INDIGO GEN., 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: GAS TURBINES					
GAS TURBINE, UNIT NO 500, NATURAL GAS, GENERAL ELECTRIC, MODEL LM6000 SPRINT, SIMPLE CYCLE, WITH STEAM OR WATER INJECTION, 450 MMBTU/HR WITH A/N: 383811	D11		NOX: MAJOR* SOURCE**	CO: 6 PPMV NATURAL GAS (4) [RULE 1703 - PSD Analysis, 10-7-1988]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 5 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 2005, 4-9-1999; RULE 2005, 4-20-2001], NOX 115 PPMV NATURAL GAS (8) [40CFR 60 Subpart GG, 3-6-1981]; PM: 0.01 GRAINS/SCF (5B) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; PM: 11 LBS/HR (5A) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; SO2 (9) [40CFR 72 - Acid Rain Provisions, 11-24-1997]; SOX: 150 PPMV (8) [40CFR 60 Subpart GG, 3-6-1981]; VOC: 2 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1) -BACT 10-20-2000]	A63.2, A63.3, A99.1, A99.2, A195.1, A195.2, A327.1, D12.4, D29.1, D29.2, D82.1, D82.2, E57.1, E73.1, I298.1, K40.1
GENERATOR, 49.9 MW CO OXIDATION CATALYST, SERVING GAS TURBINE NO 500, PLATINUM ON ALUMINA A/N: 451962	C13	C14			

* (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 WILDFLOWER ENERGY LP/INDIGO GEN., 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: GAS TURBINES					
SELECTIVE CATALYTIC REDUCTION, SERVING GAS TURBINE NO 500, CORMETECH, MODEL NO. CM27LHT, VANADIA-TITANIA, 63.6 CU.FT. WITH A/N: AMMONIA INJECTION, GRID	C14	C13		NH3: 5 PPMV (4) [RULE 1303(a) (1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 10-20-2000]	A195.3, D12.1, D12.2, D12.3, E179.1, E179.2
Process 2: STORAGE TANKS: INORGANIC MATERIALS					
STORAGE TANK, FIXED ROOF, NO I, AQUEOUS AMMONIA 19% SOLUTION, WITH A VAPOR RETURN LINE. 10000 GALS A/N: 383046	D16				C157.1, E144.1
Process 3: R219 EXEMPT EQUIPMENT SUBJECT TO A SOURCE-SPECIFIC RULE					
RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS	E17			ROG: (9) [RULE 1113, 5-14-1999, RULE 1171, 6-13-1997, RULE 1171 10-8-1999]	K67.1

- * (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
WILDFLOWER ENERGY LP/INDIGO GEN., 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
WILDFLOWER ENERGY LP/INDIGO GEN., LLC
SECTION D: DEVICE ID INDEX**

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D1	1	1	0
C3	1	1	0
C4	2	1	0
D6	3	1	0
C8	3	1	0
C9	4	1	0
D11	5	1	0
C13	5	1	0
C14	6	1	0
D16	6	2	0
E17	6	3	0

FACILITY PERMIT TO OPERATE WILDFLOWER ENERGY LP/INDIGO GEN., 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
PM10	Less than or equal to 210 LBS IN ANY ONE MONTH
SOX	Less than or equal to 94 LBS IN ANY ONE MONTH

The operator shall calculate the emission limit(s) by using monthly fuel use data and the following emission factors: PM10 8.4 lbs/mm scf and SOx 0.32 lbs/mm scf

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

FACILITY PERMIT TO OPERATE WILDFLOWER ENERGY LP/INDIGO GEN., LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[Devices subject to this condition : D1]

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

CONTAMINANT	EMISSIONS LIMIT
PM10	Less than or equal to 2010 LBS IN ANY ONE MONTH
SOX	Less than or equal to 94 LBS IN ANY ONE MONTH

The operator shall calculate the emission limit(s) by using monthly fuel use data and the following emission factors: PM10 6.8 lb/mmcf and SOx 0.32 lb/mmcf

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

[Devices subject to this condition : D6, D11]

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

CONTAMINANT	EMISSIONS LIMIT
SOX	Less than or equal to 1012 LBS IN ANY ONE YEAR
VOC	Less than or equal to 1090 LBS IN ANY ONE YEAR

The operator shall calculate the emission limit(s) by using the annual fuel use data, and the following emission factors: VOC 2.14 lb/mmcf and SOx 0.32 lb/mmcf

For the purposes of this condition, the yearly emission limit shall be defined as a period of twelve (12) consecutive months determined on a rolling basis with a new 12 month period beginning on the first day of each calendar month.

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

FACILITY PERMIT TO OPERATE WILDFLOWER ENERGY LP/INDIGO GEN., LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[Devices subject to this condition : D1, D6, D11]

- A99.1 The 5 PPM NOX emission limit(s) shall not apply during turbine start-up and shutdown periods. Start-up time shall not exceed 30 minutes for each start-up. Written records of start-ups shall be maintained and made available upon request from the Executive Officer.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(1)-Modeling, 5-10-1996; RULE 1303(b)(1), 10-20-2000; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 2005, 4-9-1999; RULE 2005, 4-20-2001]

[Devices subject to this condition : D1, D6, D11]

- A99.2 The 6 PPM CO emission limit(s) shall not apply during turbine start-up and shutdown periods. Start-up time shall not exceed 30 minutes for each start-up. Written records of start-ups shall be maintained and made available upon request from the Executive Officer.

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

[Devices subject to this condition : D1, D6, D11]

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

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(1)-Modeling, 5-10-1996; RULE 1303(b)(1), 10-20-2000; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 2005, 4-9-1999; RULE 2005, 4-20-2001]

[Devices subject to this condition : D1, D6, D11]

- A195.2 The 6 PPMV CO emission limit(s) is averaged over 60 minutes, at 15 percent O₂, dry.

FACILITY PERMIT TO OPERATE WILDFLOWER ENERGY LP/INDIGO GEN., LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

[Devices subject to this condition : D1, D6, D11]

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 formula listed below:

$$\text{NH}_3 \text{ (ppmv)} = [a - (b * c / 1000000)] * 1000000 * d / b;$$
 where a=NH₃ injection rate(lb/hr)/17(lb/lb-mole), b=dry exhaust gas flowrate(lb/hr)/29(lb/lb-mole), and c=change in measured NO_x across the SCR(ppmvd @ stack O₂), and d=correction factor derived by comparing the measured and calculated NH₃ slip concentrations during annual compliance testing.

The operator shall install and maintain a NO_x analyzer, or other method as approved by the AQMD, to measure the SCR inlet NO_x ppmv accurate to within plus or minus 5 percent calibrated at least once every 12 months.

The results derived from the formula in condition A195.3 shall not be used for compliance determination without corroborative data using an approved reference method for the determination of NH₃.

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

[Devices subject to this condition : C4, C9, C14]

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 : D1, D6, D11]

FACILITY PERMIT TO OPERATE WILDFLOWER ENERGY LP/INDIGO GEN., LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

C. Throughput or Operating Parameter Limits

C157.1 The operator shall install and maintain a pressure relief valve set at 14 psig.

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

[Devices subject to this condition : D16]

D. Monitoring/Testing Requirements

D12.1 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).

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

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

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

[Devices subject to this condition : C4, C9, C14]

D12.2 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.

FACILITY PERMIT TO OPERATE WILDFLOWER ENERGY LP/INDIGO GEN., LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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 : C4, C9, C14]

D12.3 The operator shall install and maintain a(n) pressure gauge to accurately indicate the differential pressure across the SCR catalyst bed in inches water column.

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

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

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

[Devices subject to this condition : C4, C9, C14]

D12.4 The operator shall install and maintain a(n) flow meter to accurately indicate the fuel usage being supplied to the turbine.

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

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

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

[Devices subject to this condition : D1, D6, D11]

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

FACILITY PERMIT TO OPERATE WILDFLOWER ENERGY LP/INDIGO GEN., LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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
SOX emissions	Approved District method	1 hour	Outlet of the SCR serving this equipment
ROG emissions	Approved District method	1 hour	Outlet of the SCR serving this equipment
PM emissions	District method 5.2	1 hour	Outlet of the SCR serving this equipment

The test shall be conducted at least once every 3 years.

In addition to the source test requirements of Section E of this facility permit, the facility permit holder shall submit the protocol to the AQMD engineer no later than 45 days prior to the proposed test date, and notify the AQMD of the test date and time at least 7 days prior to the test. Test results shall be submitted to the AQMD within 60 days after the test date.

The test shall be conducted to demonstrate compliance with the Rule 1303 concentration and emission limits.

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

[Devices subject to this condition : D1, D6, D11]

D29.2 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
NH3 emissions	District method 207.1 and 5.3 or EPA method	1 hour	Outlet of the SCR serving this equipment

FACILITY PERMIT TO OPERATE WILDFLOWER ENERGY LP/INDIGO GEN., LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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 45 days after the test date. The AQMD shall be notified of the date and time of the test at least 7 days prior to the test.

The test(s) shall be conducted at least annually. The NO_x concentration as determined by the CEMS, shall be simultaneously recorded during the ammonia slip test. If the CEMS is inoperable, a test shall be conducted to determine the NO_x emissions using District method 100.1 measured over a 60 minute averaging time period.

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

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

[Devices subject to this condition : D1, D6, D11]

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

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

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

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.

FACILITY PERMIT TO OPERATE WILDFLOWER ENERGY LP/INDIGO GEN., LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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 1303(b)(1)-Modeling, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 10-20-2000; RULE 1703 - PSD Analysis, 10-7-1988]

[Devices subject to this condition : D1, D6, D11]

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

NOX concentration in ppmv

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

[RULE 2012, 12-7-1995; RULE 2012, 3-16-2001]

[Devices subject to this condition : D1, D6, D11]

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 1703 - PSD Analysis, 10-7-1988]

[Devices subject to this condition : D1, D6, D11]

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 exhaust temperature to the SCR reactor is 800 Degrees F or less, not to exceed 30 minutes during start-ups

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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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 : D1, D6, D11]

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 : D16]

E179.1 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 12-3

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

[Devices subject to this condition : C4, C9, C14]

E179.2 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 12-1

Condition Number 12-2

Condition Number 195-3

FACILITY PERMIT TO OPERATE WILDFLOWER ENERGY LP/INDIGO GEN., LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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 : C4, C9, C14]

I. Administrative

1298.1 This equipment shall not be operated unless the facility holds 38400 pounds of NO_x RTCs in its allocation account to offset the annual emissions increase for the first year of operation. The RTCs held to satisfy the first year of operation portion of this condition may be transferred only after one year from the initial start of operation. In addition, this equipment shall not be operated unless the operator demonstrates to the Executive Officer that, at the commencement of each compliance year after the start of operation, the facility holds 38400 pounds of NO_x RTCs valid during that compliance year. RTCs held to satisfy the compliance year portion of this condition may be transferred only after the compliance year for which the RTCs are held. If the initial or annual hold amount is partially satisfied by holding RTCs that expire midway through the hold period, those RTCs may be transferred upon their respective expiration dates. This hold amount is in addition to any other amount of RTCs required to be held under other condition(s) stated in this permit.

[RULE 2005, 5-6-2005; RULE 2005, 6-3-2011]

[Devices subject to this condition : D1, D6, D11]

K. Record Keeping/Reporting

K40.1 The operator shall provide to the District a source test report in accordance with the following specifications:

FACILITY PERMIT TO OPERATE WILDFLOWER ENERGY LP/INDIGO GEN., LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

Emission data shall be expressed in terms of concentration (ppmv), corrected to 15 percent oxygen, dry basis.

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

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

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

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

Source test results shall also include turbine fuel flow rate and generator output (MW) under which the test was conducted.

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

[Devices subject to this condition : D1, D6, D11]

K67.1 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

FACILITY PERMIT TO OPERATE WILDFLOWER ENERGY LP/INDIGO GEN., LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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.

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

[Devices subject to this condition : E17]