

FACILITY PERMIT TO OPERATE AES PLACERITA INC

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					
STEAM TURBINE, STEAM, COMMON TO COGEN. SYSTEM NO. 2, 15000 KW BOILER, STEAM INJECTION WASTE HEAT, UNFIRED TUBE TYPE, COMMON TO GAS TURBINE NO. 2					
SELECTIVE CATALYTIC REDUCTION WITH A/N: 287458 AMMONIA INJECTION	C9	D6 S52			E73.3
STACK A/N: 287456	S52	C9			
System 2 : COGENERATION SYSTEM No. 2					
GAS TURBINE, NO. 2, NATURAL GAS, BROWN BOVERI, MODEL TYPE 8, WITH STEAM OR WATER INJECTION, 530.2 MMBTU/HR WITH A/N: 287455	D7	C10	NOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407,4-2-1982] ; CO: 10 PPMV (4) [RULE 1303(a)(1)-BACT,5- 10-1996] ; NH3: 20 PPMV (4) [RULE 1303(a)(1)-BACT,5-10- 1996] NOX: 7 PPMV NATURAL GAS (4) [RULE 1303(a)(1)- BACT,5-10-1996] ; NOX: 92 PPMV NATURAL GAS (8) [40CFR 60 Subpart GG,3-6-1981]	A63.1, A99.1, A99.2, A99.3, A327.1, D12.1, D28.1, D82.1, E73.1, E73.2, E313.1, E315.1, H23.1, K67.3

* (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.

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Process 1 : INTERNAL COMBUSTION					
GENERATOR, 43800 KW BOILER, STEAM ELECTRIC WASTE HEAT, VOGT, UNFIRED WATER TUBE TYPE, COMMON TO COGEN. SYSTEM NO. 1 STEAM TURBINE, STEAM, COMMON TO COGEN. SYSTEM NO. 1, 15000 KW BOILER, STEAM INJECTION WASTE HEAT, VOGT, UNFIRED WATER TUBE TYPE, COMMON TO GAS TURBINE NO. 1				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]	
SELECTIVE CATALYTIC REDUCTION WITH A/N: 287457	C10	D7 S53			E73.3

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 (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

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Process 1 : INTERNAL COMBUSTION					
AMMONIA INJECTION					
STACK A/N: 287455	S53	C10			
Process 2 : INORGANIC CHEMICAL STORAGE					
STORAGE TANK, FIXED ROOF, NO. 2, HYDROCHLORIC ACID, 1500 GALS; DIAMETER: 5 FT; LENGTH: 11 FT WITH A/N: 218239 SPARGER	D1 C2	C2 D1			C1.1, E202.1, K67.5
STORAGE TANK, FIXED ROOF, HYDROCHLORIC ACID, WITH BOTTOM FILLING, 10500 GALS; DIAMETER: 12 FT; HEIGHT: 12 FT WITH A/N: 343695 VESSEL, CAUSTIC VENT TRAP, WITH GAS TIGHT REMOVABLE COVER	D94 C90	C90 D94			B59.1, C1.3, E202.2, K67.1 E202.3
STORAGE SILO, LIME, WITH FABRIC FILTER, HEIGHT: 55 FT; DIAMETER: 12 FT A/N: 217582	D5			PM: (9) [RULE 404,2-7- 1986;RULE 405,2-7-1986]	C1.2, D322.1, D381.1, E184.1, K67.2
STORAGE TANK, AMMONIA A/N: 287458	D8				

* (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.

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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 3 : R-219 EXEMPT EQUIPMENT SUBJECT TO SOURCE SPECIFIC RULES					
RULE 219 EXEMPT EQUIPMENT, CLEANING EQUIPMENT, SMALL, UNHEATED, NON-CONVEYORIZED	E91			VOC: (9) [RULE 1171, 6-13-1997; RULE 1171, 10-8-1999]	H23.2
RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS	E92			VOC: (9) [RULE 1113, 5-14-1999; RULE 1171, 6-13-1997; RULE 1171, 10-8-1999]	K67.4

- | | |
|---|---|
| <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
AES PLACERITA INC**

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
AES PLACERITA INC**

SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D1	4	2	0
C2	4	2	0
D5	4	2	0
D6	1	1	1
D7	2	1	2
D8	4	2	0
C9	2	1	1
C10	3	1	2
S52	2	1	1
S53	4	1	2
C90	4	2	0
E91	5	3	0
E92	5	3	0
D94	4	2	0

FACILITY PERMIT TO OPERATE AES PLACERITA INC

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**]

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**]

DEVICE CONDITIONS

A. Emission Limits

FACILITY PERMIT TO OPERATE AES PLACERITA INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

CONTAMINANT	EMISSIONS LIMIT
CO	Less than or equal to 270 LBS PER DAY
PM10	Less than or equal to 72 LBS PER DAY
ROG	Less than or equal to 68 LBS PER DAY
SOX	Less than or equal to 10 LBS PER DAY

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

[Devices subject to this condition : D6, D7]

A99.1 The 7 PPM NOX emission limit(s) shall not apply during start-up or shut-down periods. These periods shall not exceed 90 minutes..

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

[Devices subject to this condition : D6, D7]

A99.2 The 10 PPM CO emission limit(s) shall not apply during start-up or shut-down periods. These periods shall not exceed 90 minutes..

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

[Devices subject to this condition : D6, D7]

A99.3 The 20 PPM NH3 emission limit(s) shall not apply during start-up or shut-down periods. These periods shall not exceed 90 minutes..

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

[Devices subject to this condition : D6, D7]

FACILITY PERMIT TO OPERATE AES PLACERITA INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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 : D6, D7]

B. Material/Fuel Type Limits

B59.1 The operator shall only use the following material(s) in this device :

Hydrochloric Acid of 33 percent by weight or less

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

[Devices subject to this condition : D94]

C. Throughput or Operating Parameter Limits

C1.1 The operator shall limit the loading rate to no more than 750 gallon(s) per day.

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

[Devices subject to this condition : D1]

C1.2 The operator shall limit the loading rate to no more than 100000 lb(s) in any one day.

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

[Devices subject to this condition : D5]

FACILITY PERMIT TO OPERATE AES PLACERITA INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

C1.3 The operator shall limit the loading rate to no more than 5000 gallon(s) per day.

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

[Devices subject to this condition : D94]

D. Monitoring/Testing Requirements

D12.1 The operator shall install and maintain a(n) continuous monitoring system to accurately indicate the steam-to-fuel ratio in the gas turbine.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 2012, 12-7-1995; RULE 2012, 3-16-2001]

[Devices subject to this condition : D6, D7]

D28.1 The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted at least once during the life of the permit.

The test shall be conducted to determine the NH₃ emissions at the outlet.

The test shall be conducted to determine the NH₃ emissions using District method 207.1 measured over a 60 minute averaging time period.

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

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

[Devices subject to this condition : D6, D7]

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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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 to monitor CO and O2 in the exhaust stack

The CEMS shall be installed to monitor CO pursuant to 40 CFR Part 60 Appendix B & F

Oxygen concentration in percent weight

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

[Devices subject to this condition : D6, D7]

D322.1 The operator shall perform annual inspection of the equipment and filter media for leaks, broken or torn filter media, and improperly installed filter media.

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

[Devices subject to this condition : D5]

FACILITY PERMIT TO OPERATE AES PLACERITA INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

D381.1 The operator shall conduct an inspection for visible emissions from all stacks and other emission points of this equipment whenever there is a public complaint of visible emissions, whenever visible emissions are observed, and on an annual basis, at least, unless the equipment did not operate during the entire annual period. The routine annual inspection shall be conducted while the equipment is in operation and during daylight hours. If any visible emissions (not including condensed water vapor) are detected, the operator shall take corrective action(s) that eliminates the visible emissions within 24 hours and report the visible emissions as a potential deviation in accordance with the reporting requirements in Section K of this permit.

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

- 1). Stack or emission point identification;
- 2). Description of any corrective actions taken to abate visible emissions; and
- 3). Date and time visible emission was abated.

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

[Devices subject to this condition : D5]

E. Equipment Operation/Construction Requirements

E73.1 Notwithstanding the requirements of Section E conditions, the operator shall not use for compliance the NO_x, CO, and NH₃ emissions limits if all of the following requirement(s) are met:

During start-up or shut-down periods which do not exceed 90 minutes.

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

[Devices subject to this condition : D6, D7]

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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

During start-up or shut-down periods which do not exceed 15 minutes.

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

[Devices subject to this condition : D6, D7]

- E73.3 Notwithstanding the requirements of Section E conditions, the operator may, at his discretion, choose not to use ammonia injection during:

Start-up or shutdown of the cogeneration system, until the SCR catalyst temperature reaches 650 degrees fahrenheit

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

[Devices subject to this condition : C9, C10]

- E184.1 The operator shall thoroughly clean the filters in the filter vents immediately after each load of material is received.

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

[Devices subject to this condition : D5]

- E202.1 The operator shall clean and maintain this equipment according to the following specifications:

This tank shall not be filled unless the vent gases are sparged at least 18 inches below the surface of a trap containing a minimum of 55 gallons of caustic solution maintained at pH 8 or greater

Monitor the pH on a daily basis and keep records of these readings

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

[Devices subject to this condition : D1]

FACILITY PERMIT TO OPERATE AES PLACERITA INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

E202.2 The operator shall clean and maintain this equipment according to the following specifications:

During filling, this tank shall be vented to the caustic vessel, Device C90

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

[Devices subject to this condition : D94]

E202.3 The operator shall clean and maintain this equipment according to the following specifications:

This vessel shall contain caustic solution of at least 5 percent (by weight) and the height of the solution in the vessel shall be maintained at approximately 30 inches or higher above the sparger.

The operator shall replace the caustic solution with the fresh solution when the solution has been used for 10 days or whenever the pH of the solution is less than 8

Monitor the pH on a daily basis and keep records of these readings

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

[Devices subject to this condition : D94]

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.

[RULE 2012, 5-6-2005]

[Devices subject to this condition : D6, D7]

FACILITY PERMIT TO OPERATE AES PLACERITA INC

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

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 : D6, D7]

H. Applicable Rules

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

Contaminant	Rule	Rule/Subpart
CO	District Rule	1134

[RULE 1134, 8-8-1997]

[Devices subject to this condition : D6, D7]

H23.2 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1122

[RULE 1122, 7-11-1997]

[Devices subject to this condition : E91]

K. Record Keeping/Reporting

**FACILITY PERMIT TO OPERATE
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The operator shall comply with the terms and conditions set forth below:

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

Loading rate and types of acid stored

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

[Devices subject to this condition : D94]

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

A daily log of material received by this equipment, and the amount in pounds per day

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

[Devices subject to this condition : D5]

K67.3 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Natural gas usage, water or steam injection rate, ammonia usage, gas turbine and stack outlet NOx emissions (calculated as ppmv @ 15 percent oxygen, dry, and as lb/day), and catalyst efficiency

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

[Devices subject to this condition : D6, D7]

**FACILITY PERMIT TO OPERATE
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The operator shall comply with the terms and conditions set forth below:

K67.4 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.

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

[Devices subject to this condition : E92]

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

Throughput records and types of liquids stored

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

[Devices subject to this condition : D1]