

FACILITY PERMIT TO OPERATE AES HUNTINGTON BEACH, 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: EXTERNAL COMBUSTION | | | | | |
| System 1: UTILITY BOILERS | | | | | |
| BOILER, NO. 1, NATURAL GAS, BABCOCK & WILCOX, MODEL RB-276, FRONT FIRING, WITH OXYGEN CONTENT CONTROL, 2021 MMBTU/HR WITH A/N: 408723 GENERATOR, 215 MW | D22 | S24 C86 C88 | NOX: MAJOR SOURCE**, SOX: PROCESS UNIT** | CO: 500 PPMV (5) [RULE 1303(b)(2)-Offset, 5-10-1996]; CO: 2000 PPMV (5A) [RULE 407, 4-2-1982]; NOX: 7 PPMV (5) [RULE 2009, 1-7-2005]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; SO2: (9) [40CFR 72 - Acid Rain Provisions, 11-24-1997]; SOX: 0.83 LBS/MMSCF NATURAL GAS (1) [RULE 2011, 12-7-1995; RULE 2011, 3-16-2001] | A195.5, D28.1, E193.1, K40.1 |
| SELECTIVE CATALYTIC REDUCTION, SYSTEM A, SERVING BOILER NO. 1, IN-DUCT TYPE, HALDOR TOPSOE, VANADIUM/TUNGSTEN TITANIUM, 1121 CU.FT.; WIDTH: 26 FT ; HEIGHT: 19 FT ; LENGTH: 33 FT WITH A/N: 372923 AMMONIA INJECTION, GRID A | C86 | D22 | | NH3: 10 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996] | A195.1, D12.3, D12.4, D12.5, D28.3, E179.1, E179.2, E193.1 |

* (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 AES HUNTINGTON BEACH, LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|--------|--------------|---|--|---|
| Process 1: EXTERNAL COMBUSTION | | | | | |
| SELECTIVE CATALYTIC REDUCTION, SYSTEM B, SERVING BOILER NO. 1, IN-DUCT TYPE, HALDOR TOPSOE, VANADIUM/TUNGSTEN TITANIUM, 1121 CU.FT.; WIDTH: 26 FT ; HEIGHT: 19 FT ; LENGTH: 33 FT WITH AMMONIA INJECTION, GRID B | C88 | D22 | | NH3: 10 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996] | A195.1, D12.3, D12.4, D12.5, D28.3, E179.1, E179.2, E193.1 |
| BOILER, NO. 2, NATURAL GAS, BABCOCK & WILCOX, MODEL RB-276, WITH OXYGEN CONTENT CONTROL, 2021 MMBTU/HR WITH GENERATOR, 215 MW | D25 | S24 C90 C92 | NOX: MAJOR SOURCE**; SOX: PROCESS UNIT** | CO: 500 PPMV (5A) [RULE 1303(b)(2)-Offset, 5-10-1996]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 7 PPMV (5) [RULE 2009, 1-7-2005]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; SO2: (9) [40CFR 72 - Acid Rain Provisions, 11-24-1997]; SOX: 0.83 LBS/MMSCF NATURAL GAS (1) [RULE 2011, 12-7-1995; RULE 2011, 3-16-2001] | A195.5, D28.1, E193.1, K40.1 |

* (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 AES HUNTINGTON BEACH, 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: EXTERNAL COMBUSTION | | | | | |
| SELECTIVE CATALYTIC REDUCTION, SYSTEM C, SERVING BOILER NO. 2, IN-DUCT TYPE, HALDOR TOPSOE, VANADIUM/TUNGSTEN TITANIUM, 1121 CU.FT.; WIDTH: 26 FT ; HEIGHT: 19 FT ; LENGTH: 33 FT WITH AMMONIA INJECTION, GRID C | C90 | D25 | | NH3: 10 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996] | A195.1, D12.3, D12.4, D12.5, D28.3, E179.1, E179.2, E193.1 |
| SELECTIVE CATALYTIC REDUCTION, SYSTEM D, SERVING BOILER NO. 2, IN-DUCT TYPE, HALDOR TOPSOE, VANADIUM/TUNGSTEN TITANIUM, 1121 CU.FT.; WIDTH: 26 FT ; HEIGHT: 19 FT ; LENGTH: 33 FT WITH AMMONIA INJECTION, GRID D | C92 | D25 | | NH3: 10 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996] | A195.1, D12.3, D12.4, D12.5, D28.3, E179.1, E179.2, E193.1 |
| STACK, FOR BOILERS NO. 1 AND NO. 2 A/N: 408723 | S24 | D22 D25 | | | |
| REACTOR, UREA-TO-AMMONIA SYSTEM SERVING SCR SYSTEMS A, B, C, AND D A/N: 372923 | D96 | | | | E193.1 |
| Process 2: INTERNAL COMBUSTION | | | | | |
| System 3: EMERGENCY FIRE PUMP ENGINES | | | | | |

* (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 AES HUNTINGTON BEACH, 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 2: INTERNAL COMBUSTION | | | | | |
| INTERNAL COMBUSTION ENGINE, EMERGENCY FIRE, LEAN BURN, NO. 1, DIESEL FUEL, CLARKE, MODEL JW6H-UF30, WITH AFTERCOOLER, TURBOCHARGER, 275 BHP A/N: 431599 | D113 | | NOX: PROCESS UNIT**; SOX: PROCESS UNIT** | CO: 8.5 GRAM/BHP-HR (4) [RULE 1303(a)(1)-BACT, 5-10-1996]; NOX: 6.9 GRAM/BHP-HR (4) [RULE 2005, 4-20-2001]; NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 12-5-2003; RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM10: 0.38 GRAM/BHP-HR (4) [RULE 1303(a)(1)-BACT, 5-10-1996]; ROG: 1 GRAM/BHP-HR (4) [RULE 1303(a)(1)-BACT, 5-10-1996]; SOX: 6.24 LBS/1000 GAL DIESEL (1) [RULE 2011, 12-5-2003; RULE 2011, 5-6-2005] | C1.6, H23.5, I296.1, K67.4 |
| INTERNAL COMBUSTION ENGINE, EMERGENCY FIRE, LEAN BURN, NO. 2, DIESEL FUEL, CLARKE, MODEL JW6H-UF30, WITH AFTERCOOLER, TURBOCHARGER, 275 BHP A/N: 431597 | D114 | | NOX: PROCESS UNIT**; SOX: PROCESS UNIT** | CO: 8.5 GRAM/BHP-HR (4) [RULE 1303(a)(1)-BACT, 5-10-1996]; NOX: 6.9 GRAM/BHP-HR (4) [RULE 2005, 4-20-2001]; NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 12-5-2003; RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM10: 0.38 GRAM/BHP-HR (4) [RULE 1303(a)(1)-BACT, 5-10-1996]; ROG: 1 GRAM/BHP-HR (4) [RULE 1303(a)(1)-BACT, 5-10-1996]; SOX: 6.24 LBS/1000 GAL DIESEL (1) [RULE 2011, 12-5-2003; RULE 2011, 5-6-2005] | C1.6, H23.5, I296.1, K67.4 |
| Process 9: R219 EXEMPT EQUIPMENT SUBJECT TO SOURCE-SPECIFIC RULE | | | | | |

* (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 AES HUNTINGTON BEACH, 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 9: R219 EXEMPT EQUIPMENT SUBJECT TO SOURCE-SPECIFIC RULE | | | | | |
| RULE 219 EXEMPT EQUIPMENT, ABRASIVE BLASTING EQUIPMENT, GLOVE-BOX, <= 53 FT3, WITH DUST FILTER | E81 | | | PM: (9) [RULE 1140, 2-1-1980; RULE 1140, 8-2-1985; RULE 404, 2-7-1986; RULE 405, 2-7-1986] | D322.1, D381.1, K67.1 |
| RULE 219 EXEMPT EQUIPMENT, OIL WATER SEPARATORS, GRAVITY-TYPE, < 45 FT2 AIR/LIQUID INTERFACIAL AREA | E82 | | | | H23.4 |
| RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS | E83 | | | ROG: (9) [RULE 1113, 11-8-1996; RULE 1113, 7-13-2007; RULE 1171, 11-7-2003; RULE 1171, 2-1-2008] | K67.2 |

* (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 AES HUNTINGTON BEACH, 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
AES HUNTINGTON BEACH, LLC**

SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|-----------------------------------|---------------------------|----------------|---------------|
| Device ID | Section D Page No. | Process | System |
| D22 | 1 | 1 | 1 |
| S24 | 3 | 1 | 1 |
| D25 | 2 | 1 | 1 |
| E81 | 5 | 9 | 0 |
| E82 | 5 | 9 | 0 |
| E83 | 5 | 9 | 0 |
| C86 | 1 | 1 | 1 |
| C88 | 2 | 1 | 1 |
| C90 | 3 | 1 | 1 |
| C92 | 3 | 1 | 1 |
| D96 | 3 | 1 | 1 |
| D113 | 4 | 2 | 3 |
| D114 | 4 | 2 | 3 |

FACILITY PERMIT TO OPERATE AES HUNTINGTON BEACH, 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, 11-9-2001]

F14.1 The operator shall not purchase diesel fuel containing sulfur compounds in excess of 15 ppm by weight as supplied by the supplier.

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

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

purchase records of fuel oil and sulfur content of the fuel

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

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

| Device ID | Boiler ID | Contaminant | Tons in any year |
|-----------|--------------|-----------------|------------------|
| 22 | Boiler No. 1 | SO ₂ | 1314 |

FACILITY PERMIT TO OPERATE AES HUNTINGTON BEACH, LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| | | | |
|-----|--------------|-----|------|
| 25 | Boiler No. 2 | SO2 | 1126 |
| 98 | Boiler No. 3 | SO2 | 161 |
| 104 | Boiler No. 4 | SO2 | 176 |

- a). The allowance allocation(s) shall apply to calendar years 2000 through 2009.
- b). The number of allowances allocated to Phase II affected units by U.S. EPA may change in a 1998 revision to 40CFR73 Tables 2,3, and 4. In addition, the number of allowances actually held by an affected source in a unit account may differ from the number allocated by U.S. EPA. Neither of the aforementioned conditions necessitate a revision to the unit SO2 allowance allocations identified in this permit (see 40 CFR 72.84)

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

F24.1 Accidental release prevention requirements of Section 112(r)(7):

- a). The operator shall comply with the accidental release prevention requirements pursuant to 40 CFR Part 68 and shall submit to the Executive Officer, as a part of an annual compliance certification, a statement that certifies compliance with all of the requirements of 40 CFR Part 68, including the registration and submission of a risk management plan (RMP).
- b). The operator shall submit any additional relevant information requested by the Executive Officer or designated agency.

[40CFR 68 - Accidental Release Prevention, 5-24-1996]

DEVICE CONDITIONS

A. Emission Limits

FACILITY PERMIT TO OPERATE AES HUNTINGTON BEACH, LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

A195.1 The 10 PPMV NH₃ emission limit(s) is averaged over 60 minutes at 3 percent O₂, dry. The operator shall calculate and continuously record the NH₃ slip concentration using the following: $NH_3 \text{ (ppmv)} = [a - (b * c / 1E6)] * 1E6 / b$, where a = NH₃ injection rate (lbs/hr)/17 (lbs/lb-mole), b = dry exhaust gas flow rate (lbs/hr)/29 (lbs/lb-mole), c = change in measured NO_x across the SCR (ppmvd). The operator shall install and maintain a NO_x analyzer to measure the SCR inlet NO_x ppmv accurate to +/- 5 percent 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 ammonia slip calculation procedures described above shall not be used for compliance determination or emission information without corroborative data using an approved reference method for the determination of ammonia..

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

[Devices subject to this condition : C86, C88, C90, C92]

A195.5 The 7 PPMV NO_x emission limit(s) is averaged over 720 operating hours and is a heat input weighted average with consecutive, non-overlapping averaging periods, as detailed below.

FACILITY PERMIT TO OPERATE AES HUNTINGTON BEACH, LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

A data acquisition system shall be installed and maintained to continuously record the raw data necessary to calculate the heat input weighted average NO_x concentration (ppmv) and to calculate and record the heat input weighted average NO_x concentration for each averaging period.

The average shall be calculated based on emissions during all boiler operating hours, except startups, shutdowns, CEMS calibration and maintenance periods, Part 75 linearity testing, RATA testing, equipment breakdown periods as defined in Rule 2004, and periods of zero fuel flow.

Startups are defined as whenever the unit is being brought up to normal operating temperature from an inactive status, and the exhaust temperature entering the SCR catalyst is less than 525 degrees F.

Shutdowns are defined as whenever the unit is allowed to cool from a normal operating temperature to inactive status and the exhaust temperature entering the SCR catalyst is less than 525 degrees F.

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

1. $PPMV(3\% O_2) = (Et/Q_t) * K$; where PPMV(3% O₂) = the concentration of NO_x in PPMV corrected to 3% O₂; K = a conversion factor from lbs/MMBtu to PPM, which can be determined using EPA 40CFR60 Method 19 (the default value of K is 819); Et = total reported NO_x emissions during the averaging period including emissions reported as a result of missing data procedures pursuant to Rule 2012; and Q_t = Total heat input during the averaging period.

[RULE 2009, 1-7-2005]

[Devices subject to this condition : D22, D25]

C. Throughput or Operating Parameter Limits

FACILITY PERMIT TO OPERATE AES HUNTINGTON BEACH, LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

C1.6 The operator shall limit the operating time to no more than 200 hour(s) in any one year.

The 200 hours per year shall include no more than 30 hours in any one year for maintenance and testing purposes.

To comply with this condition, the operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the engine.

[RULE 1110.1, 10-4-1985; **RULE 1303(b)(1)-Modeling, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996; RULE 1470, 6-1-2007; RULE 2005, 4-20-2001]**

[Devices subject to this condition : D113, D114]

D. Monitoring/Testing Requirements

D12.3 The operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature of the boiler exhaust at the inlet of 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 operator shall maintain the temperature at 1000 deg F or less

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

[Devices subject to this condition : C86, C88, C90, C92]

FACILITY PERMIT TO OPERATE AES HUNTINGTON BEACH, LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

D12.4 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 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 operator shall maintain the ammonia flow rate at 1000 lbs/hr or less

[RULE 2012, 5-6-2005]

[Devices subject to this condition : C86, C88, C90, C92]

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

The 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 operator shall maintain the differential pressure at 10 in. H₂O or less for devices C86, C88, C90, and C92, and at 5 in. H₂O or less for devices C102 and C108

[RULE 2012, 5-6-2005]

[Devices subject to this condition : C86, C88, C90, C92]

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

FACILITY PERMIT TO OPERATE AES HUNTINGTON BEACH, 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 at least annually.

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

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

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

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

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

[Devices subject to this condition : D22, D25]

D28.3 The operator shall conduct source test(s) in accordance with the following specifications:

FACILITY PERMIT TO OPERATE AES HUNTINGTON BEACH, 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 during NH₃ injection periods, at least quarterly during the first 12 months of operation of the SCR, and at least annually thereafter.

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 Methods 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.

The test shall be conducted and the results submitted to the District within 45 days after the test date.

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

The test shall be conducted that the NO_x concentration during the source test does not exceed the limit in condition A195.5 averaged over the full duration of the test and corrected to 3% O₂ dry.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1401, 3-17-2000]

[Devices subject to this condition : C86, C88, C90, C92]

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, 12-12-1997]

[Devices subject to this condition : E81]

FACILITY PERMIT TO OPERATE AES HUNTINGTON BEACH, LLC

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, 12-12-1997]

[Devices subject to this condition : E81]

E. Equipment Operation/Construction Requirements

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 upon the average of the continuous monitoring for that hour.

FACILITY PERMIT TO OPERATE AES HUNTINGTON BEACH, LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Condition Number D 12- 4

Condition Number A 195- 1

Condition Number D 12- 3

[RULE 2012, 5-6-2005]

[Devices subject to this condition : C86, C88, C90, C92]

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

[RULE 2012, 5-6-2005]

[Devices subject to this condition : C86, C88, C90, C92]

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

In accordance with the Negative Declaration (SCH #2000111004) that was prepared for this project by the City of Huntington Beach Planning Department.

[CA PRC CEQA, 11-23-1970]

[Devices subject to this condition : D22, D25, C86, C88, C90, C92, D96]

H. Applicable Rules

FACILITY PERMIT TO OPERATE AES HUNTINGTON BEACH, LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

H23.4 This equipment is subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule | Rule/Subpart |
|-------------|---------------|--------------|
| VOC | District Rule | 464 |

[RULE 464, 12-7-1990]

[Devices subject to this condition : E82]

H23.5 This equipment is subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule | Rule/Subpart |
|------------------|---------------|--------------|
| Sulfur compounds | District Rule | 431.2 |
| PM10 | District Rule | 1470 |

[RULE 1470, 6-1-2007]

[Devices subject to this condition : D113, D114]

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.

FACILITY PERMIT TO OPERATE AES HUNTINGTON BEACH, LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[RULE 2005, 5-6-2005]

[Devices subject to this condition : D113, D114]

K. Record Keeping/Reporting

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

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

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).

Emission data shall be expressed in terms of concentration (ppmv), corrected to 3 percent oxygen, dry basis.

All moisture concentration shall be expressed in terms of percent corrected to 3 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 fuel flow rate (CFH) and generator output (MW) under which the test was conducted.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1401, 3-17-2000; RULE 2012, 5-6-2005]

[Devices subject to this condition : D22, D25]

FACILITY PERMIT TO OPERATE AES HUNTINGTON BEACH, LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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):

the name of the person performing the inspection and/or maintenance of the dust collector

the date, time and results of the inspection

the date, time and description of any maintenance or repairs resulting from the inspection

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

[Devices subject to this condition : E81]

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.

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

[Devices subject to this condition : E83]

FACILITY PERMIT TO OPERATE AES HUNTINGTON BEACH, LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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):

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

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

[RULE 1110.2, 2-1-2008; **RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996;**
RULE 1470, 6-1-2007]

[Devices subject to this condition : D113, D114]

**FACILITY PERMIT TO OPERATE
AES HUNTINGTON BEACH, LLC**

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

NONE