

FACILITY PERMIT TO OPERATE

PALEN SOLAR ELECTRIC GENERATING STATION 10 MI EAST DESERT CENTER, BLM ROW # CACA48810, TOWNSHIP DESERT CENTER, CA 92239

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 PALEN SOLAR ELECTRIC GENERATING STATION

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FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION A: FACILITY INFORMATION

LEGAL OWNER &/OR OPERATOR: PALEN SOLAR ELECTRIC GENERATING STATION

LEGAL OPERATOR (if different than owner):

EQUIPMENT LOCATION: 10 MI EAST DESERT CENTER, BLM ROW #
 SACA48810, TOWNSHIP
 DESERT CENTER, CA 92239

MAILING ADDRESS: 1999 HARRISON ST STE 2150
 OAKLAND, CA 94612

RESPONSIBLE OFFICIAL: CHARLES TURLINSKI

TITLE: PROJECT MANAGER

TELEPHONE NUMBER: (510) 550-8161

CONTACT PERSON: CHARLES TURLINSKI

TITLE: PROJECT MANAGER

TELEPHONE NUMBER: (510) 550-8161

TITLE V	RECLAIM
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NO	NOx: NO SOx: NO CYCLE: 0 ZONE: INLAND
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**FACILITY PERMIT TO OPERATE
PALEN SOLAR ELECTRIC GENERATING STATION
SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION**

NOT APPLICABLE

**FACILITY PERMIT TO OPERATE
PALEN SOLAR ELECTRIC GENERATING STATION**

SECTION C: FACILITY PLOT PLAN

(TO BE DEVELOPED)

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

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: RULE 219 EXEMPT EQUIPMENT SUBJECT TO SOURCE SPECIFIC RULES					
System 1:					
RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATING	E25			VOC: (9) [RULE 1113, 7-13-2007; RULE 1113, 6-3-2011; RULE 1171, 2-1-2008; RULE 1171, 5-1-2009]	K67.6
RULE 219 EXEMPT EQUIPMENT, EXEMPT HAND WIPING OPERATIONS	E26			VOC: (9) [RULE 1171, 2-1-2008; RULE 1171, 5-1-2009]	
RULE 219 EXEMPT EQUIPMENT, 300 GALLONS PORTABLE AQUEOUS AMMONIA STORAGE TOTE	E27				

* (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 PALEN SOLAR ELECTRIC GENERATING STATION

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
PALEN SOLAR ELECTRIC GENERATING STATION
SECTION D: DEVICE ID INDEX**

Device Index For Section D			
Device ID	Section D Page No.	Process	System
E25	1	3	1
E26	1	3	1
E27	1	3	1

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

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]

F10.1 Material(s) that contain the following compound(s) shall not be used in this facility;

The operator shall not use natural gas containing H₂S greater than 0.75 grains per 100 cubic feet of natural gas

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

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

F14.1 The operator shall not purchase any diesel fuel, for stationary source application as defined in Rule 431.2, containing sulfur compounds in excess of 15 ppm by weight as supplied by the supplier.

The operator shall maintain a copy of the MSDS on site

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

DEVICE CONDITIONS

K. Record Keeping/Reporting

K67.6 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

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.

For architectural applications where no thinners, reducers, or other VOC containing materials are added, maintain semi-annual records 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 1113, 7-13-2007; RULE 1113, 6-3-2011]

[Devices subject to this condition : E25]

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION E: ADMINISTRATIVE CONDITIONS

The operating conditions in this section shall apply to all permitted equipment at this facility unless superseded by condition(s) listed elsewhere in this permit.

1. The permit shall remain effective unless this permit is suspended, revoked, modified, reissued, denied, or it is expired for nonpayment of permit processing or annual operating fees. [201, 203, 209, 301]
 - a. The permit must be renewed annually by paying annual operating fees, and the permit shall expire if annual operating fees are not paid pursuant to requirements of Rule 301(d). [301(d)]
 - b. The Permit to Construct listed in Section H shall expire one year from the Permit to Construct issuance date, unless a Permit to Construct extension has been granted by the Executive Officer or unless the equipment has been constructed and the operator has notified the Executive Officer prior to the operation of the equipment, in which case the Permit to Construct serves as a temporary Permit to Operate. [202, 205]
 - c. The Title V permit shall expire as specified under Section K of the Title V permit. The permit expiration date of the Title V facility permit does not supercede the requirements of Rule 205. [205, 3004]
2. The operator shall maintain all equipment in such a manner that ensures proper operation of the equipment. [204]
3. This permit does not authorize the emissions 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 and Regulations of the AQMD. This permit cannot be considered as permission to violate existing laws, ordinances, regulations, or statutes of other governmental agencies. [204]
4. The operator shall not use equipment identified in this facility permit as being connected to air pollution control equipment unless they are so vented to the identified air pollution control equipment which is in full use and which has been included in this permit. [204]

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION E: ADMINISTRATIVE CONDITIONS

5. The operator shall not use any equipment having air pollution control device(s) incorporated within the equipment unless the air pollution control device is in full operation. [204]
6. The operator shall maintain records to demonstrate compliance with rules or permit conditions that limit equipment operating parameters, or the type or quantity of material processed. These records shall be made available to AQMD personnel upon request and be maintained for at least five years. [204]
7. The operator shall maintain and operate all equipment to ensure compliance with all emission limits as specified in this facility permit. Compliance with emission limits shall be determined according to the following specifications, unless otherwise specified by AQMD rules or permit conditions: [204]
 - a. For internal combustion engines and gas turbines, measured concentrations shall be corrected to 15 percent stack-gas oxygen content on a dry basis and be averaged over a period of 15 consecutive minutes; [1110.2, 1134]
 - b. For other combustion devices, measured concentrations shall be corrected to 3 percent stack-gas oxygen content on a dry basis and be averaged over a period of 15 consecutive minutes; [1146, 1146.1, 204]
 - c. For non-combustion sources, compliance with emission limits shall be determined and averaged over a period of 60 minutes; [204]
 - d. For the purpose of determining compliance with Rule 407, carbon monoxide (CO) shall be measured on a dry basis and be averaged over 15 consecutive minutes, and sulfur compounds which would exist as liquid or gas at standard conditions shall be calculated as sulfur dioxide (SO₂) and be averaged over 15 consecutive minutes; [407]
 - e. For the purpose of determining compliance with Rule 409, combustion contaminant emission measurements shall be corrected to 12 percent of carbon dioxide (CO₂) at standard conditions and averaged over a minimum of 15 consecutive minutes. [409]

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION E: ADMINISTRATIVE CONDITIONS

- f. For the purpose of determining compliance with Rule 475, combustion contaminant emission measurements shall be corrected to 3 percent of oxygen (O₂) at standard conditions and averaged over 15 consecutive minutes or any other averaging time specified by the Executive Officer. [475]
8. The operator shall, when a source test is required by AQMD, provide a source test protocol to AQMD no later than 60 days before the proposed test date. The test shall not commence until the protocol is approved by AQMD. The test protocol shall contain the following information: [204, 304]
 - a. Brief description of the equipment tested.
 - b. Brief process description, including maximum and normal operating temperatures, pressures, throughput, etc.
 - c. Operating conditions under which the test will be performed.
 - d. Method of measuring operating parameters, such as fuel rate and process weight. Process schematic diagram showing the ports and sampling locations, including the dimensions of the ducts and stacks at the sampling locations, and distances of flow disturbances, (e.g. elbows, tees, fans, dampers) from the sampling locations (upstream and downstream).
 - e. Brief description of sampling and analytical methods used to measure each pollutant, temperature, flow rates, and moisture.
 - f. Description of calibration and quality assurance procedures.
 - g. Determination that the testing laboratory qualifies as an "independent testing laboratory" under Rule 304 (conflict of interest).
9. The operator shall submit a report no later than 60 days after conducting a source test, unless otherwise required by AQMD rules or equipment-specific conditions. The report shall contain the following information: [204]
 - a. The results of the source test.

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION E: ADMINISTRATIVE CONDITIONS

- b. Brief description of the equipment tested.
 - c. Operating conditions under which the test was performed.
 - d. Method of measuring operating parameters, such as fuel rate and process weight. Process schematic diagram showing the ports and sampling locations, including the dimensions of the ducts and stacks at the sampling locations, and distances of flow disturbances, (e.g. elbows, tees, fans, dampers) from the sampling locations (upstream and downstream).
 - e. Field and laboratory data forms, strip charts and analyses.
 - f. Calculations for volumetric flow rates, emission rates, control efficiency, and overall control efficiency.
10. The operator shall, when a source test is required, provide and maintain facilities for sampling and testing. These facilities shall comply with the requirements of AQMD Source Test Method 1.1 and 1.2. [217]
 11. Whenever required to submit a written report, notification or other submittal to the Executive Officer, AQMD, or the District, the operator shall mail or deliver the material to: Deputy Executive Officer, Engineering and Compliance, AQMD, 21865 E. Copley Drive, Diamond Bar, CA 91765-4182. [204]

**FACILITY PERMIT TO OPERATE
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SECTION F: RECLAIM MONITORING AND SOURCE TESTING REQUIREMENTS

NOT APPLICABLE

**FACILITY PERMIT TO OPERATE
PALEN SOLAR ELECTRIC GENERATING STATION**

**SECTION G: RECORDKEEPING AND REPORTING REQUIREMENTS FOR
RECLAIM SOURCES**

The Facility shall comply with all applicable reporting and recordkeeping requirements in Regulation XX. These requirements may include but are not limited to the following:

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SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: external combustion					
System 1: Boilers					

* (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.

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SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: external combustion					
BOILER, NO. 1, NATURAL GAS, RENTECH, MODEL CUSTOM, AUXILIARY, WITH ONE COMBUSTION BURNER, WITH FLUE GAS RECIRCULATION, 249 MMBTU/HR A/N:	D1	C2	NOX: MAJOR SOURCE**	CO: 25 PPMV NATURAL GAS (4) [RULE 1703(a)(2) - PSD-BACT, 10-7-1988]; CO: 400 PPMV NATURAL GAS (5A) [RULE 1146, 11-17-2000; RULE 1146, 9-5-2008]; CO: 2000 PPMV NATURAL GAS (5) [RULE 407, 4-2-1982]; NOX: 5 PPMV NATURAL GAS (4) [RULE 1703(a)(2) - PSD-BACT, 10-7-1988; RULE 2005, 6-3-2011]; NOX: 6.53 LBS/MMSCF NATURAL GAS (1A) [RULE 2012, 5-6-2005]; NOX: 11.55 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-6-2005]; NOX: 80 PPMV NATURAL GAS (8) [40CFR 60 Subpart Db, 1-28-2009]; NOX: 83.96 LBS/MMSCF NATURAL GAS (2A) [RULE 2012, 5-6-2005]; NOX: 92.4 LBS/MMSCF NATURAL GAS (1B) [RULE 2012, 5-6-2005]; PM: 0.01 GRAINS/SCF NATURAL GAS (5) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; PM: 0.1 GRAINS/SCF NATURAL GAS (5A) [RULE 409, 8-7-1981]; PM: 11 LBS/HR NATURAL GAS (5B) [RULE 475, 10-8-1976; RULE 475,	A63.1, A99.1, A99.2, A99.3, A99.4, A195.1, A195.2, A195.4, A195.5, A327.1, A433.1, A433.2, C1.1, C1.2, C1.3, C1.4, D12.1, D29.1, D29.2, D82.1, D82.2, E193.1, E448.1, E448.4, H23.1, H23.2, I298.1, K67.1, K67.2

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 (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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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					
				8-7-1978]; SO ₂ : (9) [40CFR 72 - Acid Rain Provisions, 11-24-1997]	
CO OXIDATION CATALYST, NO. 1, 0"-2" D. X 8"-10" W. X 6"-9" H., EMERACHEM, MODEL ADCAT, WITH 10 CUBIC FEET OF CATALYST VOLUME A/N:	C2	D1 C3			
SELECTIVE CATALYTIC REDUCTION, NO. 1, 1 FT-6 IN DEPTH. X 8 FT-10 IN W. X 6 FT-9 IN H., CORMETECH, WITH 90 FEET OF TOTAL CATALYST VOLUME WITH A/N: AMMONIA INJECTION, GRID	C3	C2 S5		NH ₃ : 5 PPMV NATURAL GAS (4) [RULE 1303(a) -BACT, 5-10-1996; RULE 1303(a), 12-6-2002]	A195.6, D12.4, D12.5, E179.1, E193.1, E448.5
STACK, NO. 1, HEIGHT: 120 FT ; DIAMETER: 6 FT A/N:	S5	C3			

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SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: external combustion					
BOILER, NO.2, NATURAL GAS, RENTECH, MODEL CUSTOM, AUXILIARY, WITH ONE COMBUSTION BURNER, WITH FLUE GAS RECIRCULATION, 249 MMBTU/HR A/N:	D6	C7	NOX: MAJOR SOURCE**	CO: 25 PPMV NATURAL GAS (4) [RULE 1703(a)(2) - PSD-BACT, 10-7-1988]; CO: 400 PPMV NATURAL GAS (5A) [RULE 1146, 11-17-2000; RULE 1146, 9-5-2008]; CO: 2000 PPMV NATURAL GAS (5) [RULE 407, 4-2-1982]; NOX: 5 PPMV NATURAL GAS (4) [RULE 1703(a)(2) - PSD-BACT, 10-7-1988; RULE 2005, 6-3-2011]; NOX: 6.53 LBS/MMSCF (1A) [RULE 2012, 5-6-2005]; NOX: 11.55 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-6-2005]; NOX: 80 PPMV NATURAL GAS (8) [40CFR 60 Subpart Db, 1-28-2009]; NOX: 83.96 LBS/MMSCF (2A) [RULE 2012, 5-6-2005]; NOX: 92.4 LBS/MMSCF (1B) [RULE 2012, 5-6-2005]; PM: 0.01 GRAINS/SCF NATURAL GAS (5) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; PM: 0.1 GRAINS/SCF NATURAL GAS (5A) [RULE 409, 8-7-1981]; PM: 11 LBS/HR NATURAL GAS (5B) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; SO2: (9) [40CFR 72 - Acid Rain Provisions, 11-24-1997]	A63.1, A99.1, A99.2, A99.3, A99.4, A195.1, A195.2, A195.4, A327.1, A433.1, A433.2, C1.1, C1.2, C1.3, C1.4, D12.1, D29.1, D29.2, D82.1, D82.2, E193.1, E448.1, E448.4, H23.1, H23.2, I298.2, K67.1, K67.2

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 (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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SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: external combustion					
CO OXIDATION CATALYST, NO. 2, 0"-2" D. X 8"-10" W. X 6"-9" H., EMERACHEM, MODEL ADCAT, WITH 10 CUBIC FEET OF CATALYST VOLUME A/N:	C7	D6 C8			
SELECTIVE CATALYTIC REDUCTION, NO. 2, 1 FT-6 IN DEPTH. X 8 FT-10 IN W. X 6 FT-9 IN H., CORMETECH, WITH 90 FEET OF TOTAL CATALYST VOLUME WITH A/N: AMMONIA INJECTION, GRID	C8	C7 S10		NH3: 5 PPMV NATURAL GAS (4) [RULE 1303(a) -BACT, 5-10-1996; RULE 1303(a), 12-6-2002]	A195.6, D12.3, D12.4, D12.5, E179.1, E179.2, E193.1, E448.5
STACK, NO. 2, HEIGHT: 120 FT ; DIAMETER: 6 FT A/N:	S10	C8			

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 (4) Denotes BACT emission limit
 (5) (5A) (5B) Denotes command and control emission limit
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 (7) Denotes NSR applicability limit
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (9) See App B for Emission Limits
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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, FIRE PUMP NO.1, DIESEL FUEL, CLARKE, MODEL JX6H-UFAD88, LEAN BURN, 6 CYLINDERS, WITH AFTERCOOLER, TURBOCHARGER, 617 HP A/N:	D19		NOX: PROCESS UNIT**	CO: 2.6 GRAM/BHP-HR DIESEL (4) [RULE 1303(a) -BACT, 5-10-1996; RULE 1303(a), 12-6-2002]; CO: 2.6 GRAM/BHP-HR DIESEL (8) [40CFR 60 Subpart III, 6-28-2011]; HAP: (10) [40CFR 63SubpartZZZZ, 3-9-2011]; NOX: 120 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; NOX + ROG: 3 GRAM/BHP-HR DIESEL (8) [40CFR 60 Subpart III, 6-28-2011]; NOX + ROG: 3 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)-BACT, 5-10-1996; RULE 1303(a), 12-6-2002; RULE 1703(a)(2) - PSD-BACT, 10-7-1988; RULE 2005, 6-3-2011]; PM: 0.15 GRAM/BHP-HR DIESEL (8) [40CFR 60 Subpart III, 6-28-2011]; PM: 0.15 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)-BACT, 5-10-1996; RULE 1303(a), 12-6-2002]; PM: 0.15 GRAM/BHP-HR DIESEL (5) [RULE 1470, 5-4-2012]; SOX: 0.005 GRAM/BHP-HR DIESEL (4) [RULE 1303(a) -BACT, 5-10-1996; RULE 1303(a), 12-6-2002]	B61.2, C1.8, C1.9, C1.11, C1.12, D12.2, E193.1, E448.2, E448.3, H23.5, I298.8, K67.3, K67.4

* (1) (1A) (1B) Denotes RECLAIM emission factor
 (3) Denotes RECLAIM concentration limit
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 (9) See App B for Emission Limits
 (2) (2A) (2B) Denotes RECLAIM emission rate
 (4) Denotes BACT emission limit
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 (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 PALEN SOLAR ELECTRIC GENERATING STATION

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 2: Internal Combustion					
INTERNAL COMBUSTION ENGINE, FIRE PUMP NO.2, DIESEL FUEL, CLARKE, MODEL JX6H-UFAD88, LEAN BURN, 6 CYCLINDERS, WITH AFTERCOOLER, TURBOCHARGER, 617 HP A/N:	D20		NOX: PROCESS UNIT**	CO: 2.6 GRAM/BHP-HR DIESEL (4) [RULE 1703(a)(2) - PSD-BACT, 10-7-1988]; CO: 2.6 GRAM/BHP-HR DIESEL (8) [40CFR 60 Subpart III, 6-28-2011]; HAP: (10) [40CFR 63SubpartZZZZ, 3-9-2011]; NOX: 120 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; NOX + ROG: 3 GRAM/BHP-HR DIESEL (8) [40CFR 60 Subpart III, 6-28-2011]; NOX + ROG: 3 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)-BACT, 5-10-1996; RULE 1303(a), 12-6-2002; RULE 1703(a)(2) - PSD-BACT, 10-7-1988; RULE 2005, 5-6-2005]; PM: 0.15 GRAM/BHP-HR DIESEL (8) [40CFR 60 Subpart III, 6-28-2011]; PM: 0.15 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)-BACT, 5-10-1996; RULE 1303(a), 12-6-2002]; PM: 0.15 GRAM/BHP-HR DIESEL (5) [RULE 1470, 5-4-2012]; SOX: 0.005 GRAM/BHP-HR DIESEL (4) [RULE 1303(a) -BACT, 5-10-1996; RULE 1303(a), 12-6-2002]	B61.2, C1.8, C1.9, C1.11, C1.12, D12.2, E193.1, E448.2, E448.3, H23.5, I298.9, K67.3, K67.4

* (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 PALEN SOLAR ELECTRIC GENERATING STATION

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 2: Internal Combustion					
INTERNAL COMBUSTION ENGINE, FIRE PUMP NO.3, DIESEL FUEL, CLARKE, MODEL JX6H-UFAD88, LEAN BURN, 6 CYCLINDERS, WITH AFTERCOOLER, TURBOCHARGER, 617 HP A/N:	D21		NOX: PROCESS UNIT**	CO: 2.6 GRAM/BHP-HR DIESEL (4) [RULE 1703(a)(2) - PSD-BACT, 10-7-1988]; CO: 2.6 GRAM/BHP-HR DIESEL (8) [40CFR 60 Subpart III, 6-28-2011]; HAP: (10) [40CFR 63SubpartZZZZ, 3-9-2011]; NOX: 120 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; NOX + ROG: 3 GRAM/BHP-HR DIESEL (8) [40CFR 60 Subpart III, 6-28-2011]; NOX + ROG: 3 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)-BACT, 5-10-1996; RULE 1303(a), 12-6-2002; RULE 2005, 6-3-2011]; PM: 0.15 GRAM/BHP-HR DIESEL (8) [40CFR 60 Subpart III, 6-28-2011]; PM: 0.15 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)-BACT, 5-10-1996; RULE 1303(a), 12-6-2002]; PM: 0.15 GRAM/BHP-HR DIESEL (5) [RULE 1470, 5-4-2012]; SOX: 0.005 GRAM/BHP-HR DIESEL (4) [RULE 1303(a) -BACT, 5-10-1996; RULE 1303(a), 12-6-2002]	B61.2, C1.8, C1.9, C1.11, C1.12, D12.2, E193.1, E448.2, E448.3, H23.5, I298.10, K67.3, K67.4

* (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 PALEN SOLAR ELECTRIC GENERATING STATION

SECTION H: DEVICE ID INDEX

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

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION H: DEVICE ID INDEX

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FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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]

F10.1 Material(s) that contain the following compound(s) shall not be used in this facility;

The operator shall not use natural gas containing H₂S greater than 0.75 grains per 100 cubic feet of natural gas

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

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

F14.1 The operator shall not purchase any diesel fuel, for stationary source application as defined in Rule 431.2, containing sulfur compounds in excess of 15 ppm by weight as supplied by the supplier.

The operator shall maintain a copy of the MSDS on site

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

DEVICE CONDITIONS

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

A. Emission Limits

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

CONTAMINANT	EMISSIONS LIMIT
PM10	Less than or equal to 214 LBS IN ANY ONE MONTH
CO	Less than or equal to 1451 LBS IN ANY ONE MONTH
SOX	Less than or equal to 85 LBS IN ANY ONE MONTH
VOC	Less than or equal to 173 LBS IN ANY ONE MONTH

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

The operator shall calculate the calendar monthly emissions for VOC, PM10 and SOx using the equation below and the following emission factors:

Uncontrolled emission factors: VOC: 5.7 lb/mmcf; PM10: 7.6 lb/mmcf; CO: 157.39 lb/mmcf, and SOx: 2.14 lb/mmcf.

Controlled emission factors: VOC: 4.1 lb/mmcf; PM10: 5.1 lb/mmcf; CO: 19.87 lb/mmcf and SOx: 2.14 lb/mmcf.

The uncontrolled emissions factors are to be used during start-up when the boiler is operating at 17.5% load or less

Monthly Emissions, lb/month = X (E.F.)

Where X = monthly fuel usage in mmcf/month and E.F. = emission factor indicated above

The operator shall calculate the emission limit(s) for the purpose of determining compliance with the monthly CO limit in the absence of valid CEMS data by using the above equation and the following emission factor(s):

During the commissioning period the 38.85 lbs CO/mmcf emissions factor to be used during low, medium and high loads. During cold start and warm start 153.30 lb/mmcf is to be used.

After installation of the CO catalyst but prior to CO CEMS certification testing - 19.87 lb CO/mmcf to be used for all modes of operation, excluding start-up operations, boiler restarts, hot restart/emergency trip, boiler cold and very cold start. 157.40 lb CO/mmcf to be used during boiler morning start-up operations, boiler restarts, hot restart/emergency trip and boiler cold and very cold start.

After CO CEMS certification testing - 19.87 lb/CO mmcf. After CO CEMS certification test is approved by the SCAQMD, the emissions monitored by the CEMS and calculated in accordance with condition 82.1 shall be used to calculate emissions.

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

The operator shall provide the SCAQMD with written notification of the date of initial CO catalyst use within seven (7) days of this event.

For the purpose of this condition the boiler shall not commence with normal operation until the commissioning process has been completed. The District shall be notified in writing once the commissioning process has been completed. Normal operations may proceed in the same commissioning month provided the operator follows the requirements listed below.

The operator shall calculate the commissioning emissions for VOC, SO_x and PM₁₀ for the commissioning month (beginning of the month to the last day of commissioning) using the equation below and the following emissions factor; VOC: 5.7 lb/mmcf; PM₁₀ 5.1 lb/mmcf; and SO_x: 2.14 lb/mmcf. For Start-up (cold or warm start) the following emission factors shall be used: PM₁₀: 10.5 lb/mmcf

Commissioning Emissions, lb/month = X * EF

Where X = commissioning fuel usage in mmcf/month and E.F = emission factor indicated above.

The commissioning emissions for VOC, SO_x, CO and PM₁₀ shall be subtracted from the monthly emissions limits (listed in the table a the top of this condition) and the revised monthly emissions limits will be the maximum emissions allowed for the remaining calendar month.

The operator shall keep records of monthly emissions and the records shall be made available upon request by the Executive Officer.

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

[Devices subject to this condition : D1, D6]

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

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

CONTAMINANT	EMISSIONS LIMIT
PM10	Less than or equal to 33 LBS IN ANY ONE MONTH
CO	Less than or equal to 86 LBS IN ANY ONE MONTH
SOX	Less than or equal to 9 LBS IN ANY ONE MONTH
VOC	Less than or equal to 18 LBS IN ANY ONE MONTH

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

The operator shall calculate the calendar monthly emissions for VOC, PM10 and SO_x using the equation below and the following emission factors: VOC: 4.2 lb/mmcf; PM10: 7.6 lb/mmcf; CO: 19.72 lb/mmcf and SO_x: 2.14 lb/mmcf.

Monthly Emissions, lb/month = X (E.F.)

Where X = monthly fuel usage in mmscf/month and E.F. = emission factor indicated above

For the purpose of this condition the boiler shall not commence with normal operation until the commissioning process has been completed. The District shall be notified in writing once the commissioning process has been completed. Normal operations may proceed in the same commissioning month provide the operator follows the requirements listed below.

The operator shall calculate the commissioning emissions for VOC, SO_x, PM10 and CO for the commissioning month (beginning of the month to the last day of commissioning) using the equation below and the following emissions factor; VOC: 5.67 lb/mmcf; PM10 13.65 lb/mmcf; SO_x: 2.14 lb/mmcf and CO: 18.93 lb/mmcf.

Commissioning Emissions, lb/month = X * EF

Where X = commissioning fuel usage in mmcf/month and E.F = emission factor indicated above

The commissioning emissions for VOC, SO_x, CO and PM10 shall be subtracted the monthly emissions limits (listed in the table a the top of this condition) and the revised monthly emissions limits will be the maximum emissions allowed for the remaining month

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

[Devices subject to this condition : D11, D12]

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

A99.1 The 5 PPM NOX emission limit(s) shall not apply during boiler commissioning, start-ups and emergency trips. The commissioning period shall not exceed 40 hours. Start-up time shall not exceed the times listed below . Written records of commissioning, start-ups and emergency trips shall be maintained and made available upon request from the Executive Officer.

For this condition a boiler hot/emergency trip start-up is defined as a start-up in which the boiler has been shut down for less than 12 hours. A boiler hot/emergency trip start-up period shall not exceed 45 minutes

For this condition, a boiler warm start-up is defined as a start-up in which the boiler has been shut down for at least 12 hours but less than 36 hours. A boiler warm start-up period shall not exceed 90 minutes

For this condition a boiler cold start-up is defined as a start-up in which the boiler has been shut down for at least 36 hours but less than 80 hours. A boiler cold start-up period shall not exceed 180 minutes

For this condition boiler very cold start-up is defined as a start-up in which the boiler has been shut down for at least 80 hours. A boiler very cold start-up period shall not exceed 270 minutes

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

[Devices subject to this condition : D1, D6]

A99.2 The 25 PPM CO emission limit(s) shall not apply during boiler commissioning, start-ups and emergency trips. The commissioning period shall not exceed 40 hours. Start-up time shall not the times listed below. Written records of commissioning, start-ups and emergency trips shall be maintained and made available upon request from the Executive Officer..

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

For this condition a boiler hot/emergency trip start-up is defined as a start-up in which the boiler has been shut down for less than 12 hours. A boiler hot/emergency trip start-up period shall not exceed 45 minutes

For this condition, a boiler warm start-up is defined as a start-up in which the boiler has been shut down for at least 12 hours but less than 36 hours. A boiler warm start-up period shall not exceed 90 minutes

For this condition a boiler cold start-up is defined as a start-up in which the boiler has been shut down for at least 36 hours but less than 80 hours. A boiler cold start-up period shall not exceed 180 minutes

For this condition boiler very cold start-up is defined as a start-up in which the boiler has been shut down for at least 80 hours. A boiler very cold start-up period shall not exceed 270 minutes

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

[Devices subject to this condition : D1, D6]

- A99.3 The 11.55 LBS/MMCF NOX emission limit(s) shall only apply during the interim reporting period during initial boiler commissioning to report RECLAIM emissions. During start-up or warm start modes the 92.40 lb/mmcf NOx emission limit shall only apply during the interim reporting period during initial boiler commissioning to report RECLAIM emissions. The interim reporting period shall not exceed 12 months from entry into RECLAIM..

[RULE 2012, 5-6-2005]

[Devices subject to this condition : D1, D6]

- A99.4 The 6.53 LBS/MMCF NOX emission limit(s) shall only apply during the interim reporting period after initial boiler commissioning to report RECLAIM emissions. During start-up mode operations with a boiler mode not to exceed 17.5%, the 83.96 lb/mmcf NOx emission limit shall only apply during the interim reporting period during after initial boiler commissioning to report RECLAIM emissions The interim reporting period shall not exceed 12 months from entry into RECLAIM..

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

[RULE 2012, 5-6-2005]

[Devices subject to this condition : D1, D6]

A195.1 The 25 PPM CO emission limit(s) is averaged over 15 minutes at 3 percent O₂, dry.

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

[Devices subject to this condition : D1, D6, D11, D12]

A195.2 The 5 PPM NO_X emission limit(s) is averaged over 15 minutes at 3 percent O₂, dry.

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

[Devices subject to this condition : D1, D6]

A195.3 The 9 PPM NO_X emission limit(s) is averaged over 15 minutes at 3 percent O₂, dry.

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

[Devices subject to this condition : D11, D12]

A195.4 The 80 PPM NO_X emission limit(s) is averaged over 30 day rolling average.

Per 60.44(b)(h) the NO_x standards under this section shall apply all times including periods of start-up, shut-down or malfunction.

60.44(b)(i)-Except as provided under paragraph (j) of this section, compliance with the emissions limits under this section is determined on a 30-day rolling average basis.

[40CFR 60 Subpart Db, 1-28-2009]

[Devices subject to this condition : D1, D6]

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

A195.5 The 80 PPM NOX emission limit(s) is averaged over 30 day rolling average.

Per 60.44(b)(h) the NOx standards under this section shall apply all times including periods of start-up, shut-down or malfunction.

60.44(b)(i)-Except as provided under paragraph (j) of this section, compliance with the emissions limits under this section is determined on a 30-day rolling average basis.

[40CFR 60 Subpart Db, 1-28-2009]

[Devices subject to this condition : D1]

A195.6 The 5 PPMV NH3 emission limit(s) is averaged over 60 minutes.

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

$$\text{NH}_3 \text{ (ppmv)} = [a-b*c/1\text{EE}+06]*1\text{EE}+06/b.$$

where,.

a = NH₃ injection rate (lbs/hr)/17(lb/lb-mol).

b = dry exhaust gas flow rate (scf/hr)/385.3 scf/lb-mol).

c = change in measured NO_x across the SCR (ppmvd at 3% O₂).

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

The NO_x analyzer shall be installed and operated within 90 days of initial start-up..

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

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

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

[Devices subject to this condition : C3, C8]

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]

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

A433.1 The operator shall comply at all times with the 5 ppm BACT limit for NO_x, except as defined in condition A99.1 and for the following scenario:

Operating Scenario	Maximum Hourly Emission Limit	Operational Limit
start-up event	3.5 lb/hr	NO _x emissions not to exceed 10.5 lbs total per cold start-up per boiler. The boiler shall be limited to 10 cold start-ups per year, with each start-up not to exceed 180 minutes.

[RULE 2012, 5-6-2005]

[Devices subject to this condition : D1, D6]

A433.2 The operator shall comply at all times with the 5 ppm BACT limit for NO_x, except as defined in condition A99.1 and for the following scenario:

Operating Scenario	Maximum Hourly Emission Limit	Operational Limit
start-up event	3.5 lb/hr	NO _x emissions not to exceed 15.7 lbs total per very cold start-up per boiler. The boiler shall be limited to 5 very cold start-ups per year, with each start-up not to exceed 270 minutes.

[RULE 2012, 5-6-2005]

[Devices subject to this condition : D1, D6]

B. Material/Fuel Type Limits

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

B61.2 The operator shall only use fuel oil containing the following specified compounds:

Compound	Range	ppm by weight
Sulfur	less than or equal to	15

The operator shall maintain a copy of the MSDS on site

**[RULE 1303(a)-BACT, 5-10-1996; RULE 1303(a), 12-6-2002; RULE 1470, 5-4-2012;
 RULE 431.2, 5-4-1990; RULE 431.2, 9-15-2000; 40CFR 60 Subpart III, 6-28-2011]**

[Devices subject to this condition : D13, D15, D17, D19, D20, D21]

C. Throughput or Operating Parameter Limits

C1.1 The operator shall limit the fuel usage to no more than 40 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 a single boiler.

The operator shall record and maintain the amount of all fuel combusted during each calendar month. The fuel usage records shall be kept for a period of five years and all records shall be made available to District personnel upon request.

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

[Devices subject to this condition : D1, D6]

C1.2 The operator shall limit the fuel usage to no more than 4.28 MM cubic feet in any one calendar month.

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

For the purpose of this condition, fuel usage shall be defined as the total natural gas usage of a single boiler during a commissioning period.

The operator shall record and maintain the amount of all fuel combusted during each calendar month. The fuel usage records shall be kept for a period of five years and all records shall be made available to District personnel upon request.

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

[Devices subject to this condition : D1, D6]

- C1.3 The operator shall limit the fuel usage to no more than 307 MM cubic feet per year.

For the purpose of this condition, fuel usage shall be defined as the total natural gas usage of a single boiler during a non-commissioning year.

The operator shall record and maintain the amount of all fuel combusted during each calendar month. Year is defined as 12-month rolling average. The fuel usage records shall be kept for a period of five years and all records shall be made available to District personnel upon request.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 1401, 9-10-2010]

[Devices subject to this condition : D1, D6]

- C1.4 The operator shall limit the fuel usage to no more than 311 MM cubic feet per year.

For the purpose of this condition, fuel usage shall be defined as the total natural gas usage of a single boiler during a commissioning year.

The operator shall record and maintain the amount of all fuel combusted during each calendar month. Year is defined as 12-month rolling average. The fuel usage records shall be kept for a period of five years and all records shall be made available to District personnel upon request.

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

[**RULE 1303(b)(2)-Offset, 5-10-1996**; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 1401, 9-10-2010]

[Devices subject to this condition : D1, D6]

- C1.5 The operator shall limit the fuel usage to no more than 4.34 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 a single boiler.

The operator shall record and maintain the amount of all fuel combusted during each calendar month. The fuel usage records shall be kept for a period of five years and all records shall be made available to District personnel upon request.

[**RULE 1303(b)(2)-Offset, 5-10-1996**; RULE 1303(b)(2)-Offset, 12-6-2002; **40CFR 60 Subpart Dc, 10-4-1991**]

[Devices subject to this condition : D11, D12]

- C1.6 The operator shall limit the fuel usage to no more than 0.11 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 a single boiler during a commissioning period.

The operator shall record and maintain the amount of all fuel combusted during each calendar month. The fuel usage records shall be kept for a period of five years and all records shall be made available to District personnel upon request.

[**RULE 1303(b)(2)-Offset, 5-10-1996**; RULE 1303(b)(2)-Offset, 12-6-2002; **40CFR 60 Subpart Db, 11-16-2006**]

[Devices subject to this condition : D11, D12]

- C1.7 The operator shall limit the fuel usage to no more than 48 MM cubic feet per year.

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

For the purpose of this condition, fuel usage shall be defined as the total natural gas usage of a single boiler.

The operator shall record and maintain the amount of all fuel combusted during each year. The fuel usage records shall be kept for a period of five years and all records shall be made available to District personnel upon request.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 1401, 9-10-2010]

[Devices subject to this condition : D11, D12]

C1.8 The operator shall limit the operating time to no more than 200 hour(s) in any one year.

[RULE 1110.2, 2-1-2008; RULE 1110.2, 9-7-2012; RULE 1303(a)-BACT, 5-10-1996; RULE 1303(a), 12-6-2002; RULE 1304(c)-Offset Exemption, 6-14-1996; RULE 1470, 5-4-2012; RULE 1714, 11-5-2010]

[Devices subject to this condition : D13, D15, D17, D19, D20, D21]

C1.9 The operator shall limit the operating time to no more than 50 hour(s) in any one year.

For the purposes of this condition, the operating time is inclusive of time allotted for maintenance and testing.

Operation beyond the 50 hours per year for engine maintenance and testing shall be allowed only in the event of a loss of grid power or up to 30 minutes prior to a rotating outage, provided that the utility distribution company has ordered rotating outages in the control area where the engine is located or has indicated that it expects to issue such an order at a certain time, and the engine is located in a utility service block that is subject to the rotating outage. Engine operation shall be terminated i.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1304(c)-Offset Exemption, 6-14-1996; RULE 1470, 5-4-2012; RULE 2012, 5-6-2005]

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SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

[Devices subject to this condition : D13, D15, D17, D19, D20, D21]

- C1.10 The operator shall limit the operating time to no more than 4.2 hour(s) in any one calendar month.

For the purposes of this condition, the operating time is inclusive of time allotted for maintenance and testing.

[RULE 1304(c)-Offset Exemption, 6-14-1996; RULE 2012, 5-6-2005]

[Devices subject to this condition : D13, D15, D17]

- C1.11 The operator shall limit the operating time to no more than 30 minute(s) in any one day.

For the purposes of this condition, the operating time is inclusive of time allotted for maintenance and testing.

[CA PRC CEQA, 11-23-1970]

[Devices subject to this condition : D13, D15, D17, D19, D20, D21]

- C1.12 The operator shall limit the operating time to no more than 50 hour(s) in any one year.

For the purposes of this condition, the operating time is inclusive of time allotted for maintenance and testing.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1304(c)-Offset Exemption, 6-14-1996; RULE 1470, 5-4-2012; RULE 2012, 5-6-2005]

[Devices subject to this condition : D19, D20, D21]

D. Monitoring/Testing Requirements

- D12.1 The operator shall install and maintain a(n) flow meter to accurately indicate the fuel usage being supplied to the boiler.

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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

[RULE 1303(b)(3), 5-10-1996; RULE 1303(b)(3), 12-6-2002; RULE 2012, 5-6-2005; 40CFR 60 Subpart Db, 1-28-2009; 40CFR 60 Subpart Dc, 2-27-2006]

[Devices subject to this condition : D1, D6, D11, D12]

- D12.2 The operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the engine.

[RULE 1110.2, 9-7-2012; RULE 1304(c)-Offset Exemption, 6-14-1996; RULE 1470, 5-4-2012; RULE 2012, 5-6-2005; 40CFR 60 Subpart III, 6-28-2011]

[Devices subject to this condition : D13, D15, D17, D19, D20, D21]

- 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.

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 twelve months. The records shall be kept on site and made available to SCAQMD personnel upon request

The ammonia injection system shall be placed in full operation as soon as the minimum temperature is reached. The minimum temperature is listed as 550 degrees F. at the inlet to the SCR reactor

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 2005, 6-3-2011]

[Devices subject to this condition : C8]

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

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

D12.4 The operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature in the 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 twelve months. The records shall be kept on site and made available to SCAQMD personnel upon request

The catalyst temperature range shall be remain between 550 degree F and 750 degree F

The catalyst inlet temperature shall not exceed 750 degrees F.

The temperature range requirement of this condition does not apply during start-up operations of the boiler listed in condition A99.1.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 2005, 6-3-2011]

[Devices subject to this condition : C3, C8]

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 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 twelve months. The records shall be kept on site and made available to SCAQMD personnel upon request

The pressure drop across the catalyst and ammonia injection grid shall not exceed 4.5 inches water column

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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, 12-6-2002; RULE 2005, 6-3-2011]

[Devices subject to this condition : C3, C8]

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

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
NOX emissions	District method 100.1	15 minutes	Outlet of the SCR serving this equipment
CO emissions	District method 100.1	15 minutes	Outlet of the SCR serving this equipment
SOX emissions	AQMD Laboratory Method 307-91	Not Applicable	Fuel sample
PM emissions	District method 5.1	1 hour	Outlet of the SCR serving this equipment
NH3 emissions	District method 207.1 and 5.3 or EPA method	1 hour	Outlet of the SCR serving this equipment

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

The test shall be conducted after SCAQMD approval of the source test protocol, but no later than 180 days after initial start-up. The SCAQMD shall be notified of the date and time of the test at least 10 days prior to the test. The test shall be conducted to determine the oxygen levels in the exhaust. In addition, the tests shall measure the fuel flow rate (mmcf/hour), and the flue gas flow rate.

The test shall be conducted in accordance with SCAQMD approved test protocol. The protocol shall be submitted to the SCAQMD engineer no later than 45 days before the proposed test date and shall be approved by the SCAQMD before the test commences.

The test protocol shall include the proposed operating conditions of the boiler during the tests, the identity of the testing lab, a statement from the testing lab certifying that it meets the criteria of rule 304, and a description of all sampling and analytical procedures

The test shall be conducted for each load, while firing at maximum, minimum and low firing rates

The test shall be conducted for compliance verification of the 25 ppmv CO limit.

The test shall be conducted for compliance verification of the 5 ppmv NOX limit.

The test shall be conducted for compliance verification of the 5 ppmv ammonia slip limit.

Two complete copies of source test reports (include the application number and a copy of the permit in the report) shall be submitted to the District (addressed to south coast air quality management district, attn Roy Olivares, P.O. Box 4941, Diamond bar, CA 91765). The results in writing shall be submitted within 45 days after the source test is completed. It shall include, but not be limited to emissions rate in pounds per hour and concentration in ppmv at the outlet of the boiler

A testing laboratory certified by the SCAQMD laboratory approval program (LAP) in the required test methods for criteria pollutant to be measured, and in compliance with district rule 304 (no conflict of interest) shall conduct the test

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

Sampling facilities shall comply with the SCAQMD "guidelines for construction of sampling and testing facilities", pursuant to rule 217

[RULE 1303(a)-BACT, 5-10-1996; RULE 1303(a), 12-6-2002; RULE 1703(a)(2) - PSD-BACT, 10-7-1988; RULE 2005, 6-3-2011]

[Devices subject to this condition : D1, D6]

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 17	1 hour	Outlet of the SCR serving this equipment

The test shall be conducted and the results submitted to the District within 45 days after the test date. The SCAQMD shall be notified of the date and time of the test at least 7 days prior to the test

The test shall be conducted at least quarterly during the first twelve months of operation and at least annually thereafter. The NOx concentration, as determined by the CEMS, shall be simultaneously recorded during the ammonia slip test. If the CEMS is inoperable, a test shall be conducted to determine the NOx emissions using District Method 100.1 measured over a 60 minute averaging time period.

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

[Devices subject to this condition : D1, D6]

D29.3 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
NOX emissions	District method 100.1	15 minutes	Outlet of the SCR serving this equipment
CO emissions	District method 100.1	15 minutes	Outlet of the SCR serving this equipment
SOX emissions	AQMD Laboratory Method 307-91	Not Applicable	Fuel sample
PM emissions	District method 5.1	1 hour	Outlet of the SCR serving this equipment

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

The test shall be conducted after SCAQMD approval of the source test protocol, but no later than 180 days after initial start-up. The SCAQMD shall be notified of the date and time of the test at least 10 days prior to the test. The test shall be conducted to determine the oxygen levels in the exhaust. In addition, the tests shall measure the fuel flow rate (mmcf/hour), and the flue gas flow rate.

The test shall be conducted in accordance with SCAQMD approved test protocol. The protocol shall be submitted to the SCAQMD engineer no later than 45 days before the proposed test date and shall be approved by the SCAQMD before the test commences.

The test protocol shall include the proposed operating conditions of the boiler during the tests, the identity of the testing lab, a statement from the testing lab certifying that it meets the criteria of rule 304, and a description of all sampling and analytical procedures

The test shall be conducted for 15 minutes for each load, while firing at maximum, minimum and low firing rates

The test shall be conducted for compliance verification of the 25 ppmv CO limit.

The test shall be conducted for compliance verification of the 9 ppmv NOx limit.

Two complete copies of source test reports (include the application number and a copy of the permit in the report) shall be submitted to the District (addressed to south coast air quality management district, attn Roy Olivares, P.O. Box 4941, Diamond bar, CA 91765). The results in writing shall be submitted within 45 days after the source test is completed. It shall include, but not be limited to emissions rate in pounds per hour and concentration in ppmv at the outlet of the boiler

A testing laboratory certified by the SCAQMD laboratory approval program (LAP) in the required test methods for criteria pollutant to be measured, and in compliance with district rule 304 (no conflict of interest) shall conduct the test

Sampling facilities shall comply with the SCAQMD "guidelines for construction of sampling and testing facilities", pursuant to rule 217

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

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

[RULE 1303(a)-BACT, 5-10-1996; RULE 1303(a), 12-6-2002; RULE 1703(a)(2) - PSD-BACT, 10-7-1988; RULE 2005, 6-3-2011]

[Devices subject to this condition : D11, D12]

D29.4 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
NOX emissions	District method 100.1	1 hour	Outlet

The test(s) shall be conducted at least once every five years.

The test shall be conducted for compliance verification of the 9 ppmv NOx RECLAIM concentration limit.

[RULE 2012, 5-6-2005]

[Devices subject to this condition : D11, D12]

D82.1 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:

CO concentration in ppmv

Concentrations shall be corrected to 3 percent oxygen on a dry basis

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

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

CO Emission Rate, lbs/hr = $K C_{co} F_d [20.9\% - \%O_2 d] [(Q_g * HHV)/106]$, where

$K = 7.267 * 10^{-8}$ (lb/scf)/ppm

C_{co} = Average of four consecutive 15 min. ave. CO concentration, ppm

F_d = 8710 dscf/MMBTU natural gas

$\%O_2 d$ = Hourly ave. % by vol. O₂ dry, corresponding to C_{co}

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

HHV = Gross high heating value of fuel gas, BTU/scf

[RULE 1703(a)(2) - PSD-BACT, 10-7-1988; RULE 218, 5-14-1999]

[Devices subject to this condition : D1, D6]

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:

NOX concentration in ppmv

Concentrations shall be corrected to 3 percent oxygen on a dry basis.

The CEMS shall be installed and operating no later than 90 days after initial start-up of the boiler and shall comply with the requirements of Rule 2012. 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 two weeks of the boiler start-up date, the operator shall provide written notification to the District of the exact date of start-up

The CEMS shall be installed and operating (for BACT purposes only) no later than 90 days after initial start up of the boiler.

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

[Devices subject to this condition : D1, D6]

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 based upon the average of the continuous monitoring for that hour.

Condition Number D 12- 3

Condition Number D 12- 4

[RULE 1303(a)-BACT, 5-10-1996; RULE 1303(a), 12-6-2002; RULE 2005, 6-3-2011]

[Devices subject to this condition : C3, C8]

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.

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

Condition Number D 12- 5

[RULE 1303(a)-BACT, 5-10-1996; RULE 1303(a), 12-6-2002; RULE 2005, 6-3-2011]

[Devices subject to this condition : C8]

E193.1 The operator shall upon completion of construction, operate and maintain this equipment according to the following specifications:

In accordance with all mitigation measures stipulated in the final California Energy Commission decision for the 09-AFC-7 project

[CA PRC CEQA, 11-23-1970]

[Devices subject to this condition : D1, C3, D6, C8, D11, D12, D13, D15, D17, D19, D20, D21]

E448.1 The operator shall comply with the following requirements:

This boiler shall not be operated unless the flue gas recirculation system is in full operation

The operator shall have the burner equipped with a control system to automatically regulate the combustion air, fuel, and recirculation flue gas as the boiler load varies. This control system shall be adjusted and tuned according to the manufacturer's specifications to maintain its ability to repeat the same performance at the same firing rate.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 2005, 6-3-2011]

[Devices subject to this condition : D1, D6, D11, D12]

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

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

The operator shall comply with the emission standards specified in 40 CFR 60.4205(B) by purchasing an engine certified to the emission standards in 40 CFR 60.4205(B), as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission related specifications

[40CFR 60 Subpart III, 6-28-2011]

[Devices subject to this condition : D13, D15, D17, D19, D20, D21]

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

The operator shall operate and maintain the stationary engine and control device according to the manufacturer's written emission-related instructions (or procedures developed by the operator that are approved by the engine manufacturer), change only those emission-related settings that are permitted by the manufacturer, and meet the requirements of 40 CFR 89, 94 and/or 1068, as they apply

[40CFR 60 Subpart III, 6-28-2011]

[Devices subject to this condition : D13, D15, D17, D19, D20, D21]

E448.4 The operator shall comply with the following requirements:

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

60.49b Reporting and record keeping requirements and shall include the following

(a)(1) The design heat input capacity of the boilers and the type of fuels to be used by the equipment.

(a)(2)-If applicable, a copy of any federally enforceable requirements that limits the annual capacity factor for any fuel or mixture of fuels under 60.42b(d)(1), 60.43b(a)(2), (a)(3)(iii), (c)(2)(ii), (d)(2)(ii), 60.44b(c), (d), (e), (i),(j), (k), 60.45b(d), (g), 60.46b(h)(1), or 60.48b(i).

(a)(3)- The annual capacity factor at which the operator anticipated operating the facility based on all fuels fired and based on each individual fuel fired

60.49b(d)(1)-The owner or operator of an affected facility shall record and maintain records of the amounts of each fuel combusted each day and calculate the annual capacity factor individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste for the reporting period. The annual capacity factor is determined on a 12 month rolling average basis with a new annual capacity factor calculated at the end of each calendar month.

60.49b(g)The operator of the boilers subject to the NO_x standards under 60.44b shall maintain records of the following information for each steam generating unit operating day:

(1) Calendar date

(2)The ave hourly NO_x emissions rate (expressed as NO₂)(ng/J or lb/mmBtu heat input

(3) The 30 day average NO_x emission rate calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxide emissions rate for the proceeding 30 steam generating unit operating days

(4) (4) Identification of the steam unit operating days when the calculated 30-day average NO_x emissions rates are in excess of the NO_x emissions standards under

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

60.44b, with the reasons for such excess emissions as well as a description of corrective action taken;

(5) Identifications of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective action taken;

(6) Identification of the times when emissions data have been excluded from the calculations of average emission rates and the reasons for excluding data;

(7) Identification of "F" factor used for calculations, method of determination, and type of fuel combusted

(8) Identification of the times when the pollutant concentration exceeded full span of CEMs;

(9) Description of any modifications to the CEMs that could affect the ability of the CEMs to comply with Performance Specification 2 or 3; and

(10) Results of daily CEMs drift test and quarterly accuracy assessments as required under Appendix F, Procedure 1 of this part.

60.49b (h)- The owner or operator of any affected facility in any category listed in paragraph (h)(1) or (2) of this section is required to submit excess emission reports for any excess emission that occurred during the reporting period.

60.49b (i)-The owner or operator of any affected facility subject to the continuous monitoring requirements for NO_x under §60.48b shall submit reports containing the information recorded under paragraph (g) of this section.

The operator shall comply with remaining sections of this subpart, if applicable.

[40CFR 60 Subpart Db, 1-28-2009]

[Devices subject to this condition : D1, D6]

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

E448.5 The operator shall comply with the following requirements:

The ammonia injection system shall be placed in full operation as soon as the minimum temperature is reached. The minimum temperature is listed as 550 degrees F. at the inlet to the SCR reactor

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 2005, 6-3-2011]

[Devices subject to this condition : C3, C8]

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	1146

The operator of this equipment shall comply with source testing requirements in subdivision (D)(6)--compliance determination of rule 1146.

The operator of this equipment shall comply with periodic monitoring requirements of rule 1146 (C)(8).

[RULE 1146, 11-17-2000; RULE 1146, 9-5-2008]

[Devices subject to this condition : D1, D6, D11, D12]

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

Contaminant	Rule	Rule/Subpart
PM	40CFR60, SUBPART	Db
SOX	40CFR60, SUBPART	Db

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

NOX	40CFR60, SUBPART	Db
[40CFR 60 Subpart Db, 2-27-2006]		

[Devices subject to this condition : D1, D6]

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

Contaminant	Rule	Rule/Subpart
PM	40CFR60, SUBPART	Dc
SOX	40CFR60, SUBPART	Dc

[40CFR 60 Subpart Dc, 2-27-2006]

[Devices subject to this condition : D11, D12, D17]

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

Contaminant	Rule	Rule/Subpart
PM	District Rule	1470
Sulfur compounds	District Rule	431.2

[RULE 1470, 5-4-2012; RULE 431.2, 5-4-1990; RULE 431.2, 9-15-2000]

[Devices subject to this condition : D13, D15, D17, D19, D20, D21]

I. Administrative

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

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

I298.1 This equipment shall not be operated unless the facility holds 5714 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 5645 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, 6-3-2011]

[Devices subject to this condition : D1]

I298.2 This equipment shall not be operated unless the facility holds 5714 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 5645 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, 6-3-2011]

[Devices subject to this condition : D6]

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

I298.3 This equipment shall not be operated unless the facility holds 565 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 563 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, 6-3-2011]

[Devices subject to this condition : D11]

I298.4 This equipment shall not be operated unless the facility holds 565 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 563 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, 6-3-2011]

[Devices subject to this condition : D12]

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

I298.5 This equipment shall not be operated unless the facility holds 5922 pounds of NOx 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 5922 pounds of NOx 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, 6-3-2011]

[Devices subject to this condition : D13]

I298.6 This equipment shall not be operated unless the facility holds 5922 pounds of NOx 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 5922 pounds of NOx 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, 6-3-2011]

[Devices subject to this condition : D15]

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

I298.7 This equipment shall not be operated unless the facility holds 434 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 434 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, 6-3-2011]

[Devices subject to this condition : D17]

I298.8 This equipment shall not be operated unless the facility holds 707 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 707 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, 6-3-2011]

[Devices subject to this condition : D19]

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

I298.9 This equipment shall not be operated unless the facility holds 707 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 707 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, 6-3-2011]

[Devices subject to this condition : D20]

I298.10 This equipment shall not be operated unless the facility holds 707 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 707 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, 6-3-2011]

[Devices subject to this condition : D21]

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

K. Record Keeping/Reporting

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

Retain all records required by permit for a period of five years and make all records available to district personnel upon request.

The operator shall record and maintain the amount of all fuel combusted during each calendar month. The fuel usage records shall be kept for a period of five years and all records shall be made available to district personnel upon request

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; 40CFR 60 Subpart Db, 9-7-1990]

[Devices subject to this condition : D1, D6]

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

Natural gas fuel use after CEMS certification

Natural gas fuel use during the commissioning period

Natural gas fuel use after the commissioning period and prior to CEMS certification

[RULE 2012, 5-6-2005]

[Devices subject to this condition : D1, D6]

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

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

Manual and automatic operation and shall list all engine operations in each of the following areas:

- A. emergency use
- B. MAINTENANCE AND TESTING
- C. OTHER (BE SPECIFIC)

In addition, for each time the engine is manually started, the log shall include the date of engine operation, the specific reason for operation, and the totalizing hour meter reading (in hours and tenths of hours) at the beginning and the end of the operation.

[RULE 1110.2, 9-7-2012; RULE 1470, 5-4-2012; **40CFR 60 Subpart IIII, 6-28-2011**]

[Devices subject to this condition : D13, D15, D17, D19, D20, D21]

K67.4 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

On or before January 15th of each year, the operator shall record in the engine operating log:

- A. the total hours of engine operation for the previous calendar year, and
- B. The total hours of engine operation for maintenance and testing for the previous calendar year

Engine operation log(s) shall be retained on site for a minimum of five calendar years and shall be made available to the executive officer or representative upon request

[**RULE 1304(c)-Offset Exemption, 6-14-1996**]

[Devices subject to this condition : D13, D15, D17, D19, D20, D21]

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SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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

Retain all records required by permit for a period of five years and make all records available to district personnel upon request.

The operator shall record and maintain the amount of all fuel combusted during each calendar month. The fuel usage records shall be kept for a period of five years and all records shall be made available to district personnel upon request

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; 40CFR 60 Subpart Dc, 2-27-2006]

[Devices subject to this condition : D11, D12]

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION I: PLANS AND SCHEDULES

This section lists all plans approved by AQMD for the purposes of meeting the requirements of applicable AQMD rules.

NONE

NOTE: This section does not list compliance schedules pursuant to the requirements of Regulation XXX - Title V Permits; Rule 3004(a)(10)(C). For equipment subject to a variance, order for abatement, or alternative operating condition granted pursuant to Rule 518.2, equipment specific conditions are added to the equipment in Section D or H of the permit.

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION J: AIR TOXICS [40CFR 63SubpartZZZZ 03-09-2011]

NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS: STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES

The owner/operator of existing emergency stationary Reciprocating Internal Combustion Engines (RICE) located at an area source of hazardous air pollutant (HAP) emissions shall comply with the applicable requirements of 40 CFR 63 Subpart ZZZZ including but not limited to the following:

1. The owner/operator shall comply with the applicable requirements as specified in 63.6603 including but not limited to the following:

Table 2d to Subpart ZZZZ of Part 63—Requirements for Existing Stationary RICE Located at Area Sources of HAP Emissions

As stated in §§63.6603 and 63.6640, you must comply with the following requirements for existing stationary RICE located at area sources of HAP emissions:

For each . . .	You must meet the following requirement, except during periods of startup . . .	During periods of startup you must . . .
4. Emergency stationary CI RICE and black start stationary CI RICE. ²	a. Change oil and filter every 500 hours of operation or annually, whichever comes first; ¹	
	b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and	
	c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.	
5. Emergency stationary SI RICE; black start stationary SI RICE. ²	a. Change oil and filter every 500 hours of operation or annually, whichever comes first; ¹ b. Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first; and c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.	

¹Sources have the option to utilize an oil analysis program as described in §63.6625(i) in order to extend the specified oil change requirement in Table 2d of this subpart.

²If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedule required in Table 2d of this subpart, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION J: AIR TOXICS [40CFR 63SubpartZZZZ 03-09-2011]

has abated. The management practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated. Sources must report any failure to perform the management practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable.

2. The owner/operator shall comply with the applicable general requirements as specified in 63.6605.
3. The owner/operator shall comply with the applicable monitoring, installation, collection, operation, and maintenance requirements specified in 63.6625.
4. The owner/operator shall demonstrate continuous compliance with the applicable emission limitations and operating limitations specified in 63.6640 including but not limited to the following:
 - (a) You must demonstrate continuous compliance with each emission limitation and operating limitation according to methods specified in Table 6 to this subpart.

Table 6 to Subpart ZZZZ of Part 63—Continuous Compliance With Emission Limitations, Operating Limitations, Work Practices, and Management Practices

As stated in §63.6640, you must continuously comply with the emissions and operating limitations and work or management practices as required by the following:

For each . . .	Complying with the requirement to . . .	You must demonstrate continuous compliance by . . .
existing emergency and black start stationary RICE located at an area source of HAP	a. Work or Management practices	i. Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or ii. Develop and follow your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

(b) You must report each instance in which you did not meet each emission limitation or operating limitation in Table 2d to this subpart that apply to you. These instances are deviations from the emission and operating limitations in this subpart. These deviations must be reported according to the requirements in §63.6650.

(c) you must operate the emergency stationary RICE according to the requirements in paragraphs (i) through (iii) of this section. Any operation other than emergency operation, maintenance and

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION J: AIR TOXICS [40CFR 63SubpartZZZZ 03-09-2011]

testing, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (i) through (iii) of this section, is prohibited. If you do not operate the engine according to the requirements in paragraphs (i) through (iii) of this section, the engine will not be considered an emergency engine under this subpart and will need to meet all requirements for non-emergency engines.

(i) There is no time limit on the use of emergency stationary RICE in emergency situations.

(ii) You may operate your emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year.

(iii) You may operate your emergency stationary RICE up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity; except that owners and operators may operate the emergency engine for a maximum of 15 hours per year as part of a demand response program if the regional transmission organization or equivalent balancing authority and transmission operator has determined there are emergency conditions that could lead to a potential electrical blackout, such as unusually low frequency, equipment overload, capacity or energy deficiency, or unacceptable voltage level. The engine may not be operated for more than 30 minutes prior to the time when the emergency condition is expected to occur, and the engine operation must be terminated immediately after the facility is notified that the emergency condition is no longer imminent. The 15 hours per year of demand response operation are counted as part of the 50 hours of operation per year provided for non-emergency situations. The supply of emergency power to another entity or entities pursuant to financial arrangement is not limited by this paragraph (iii), as long as the power provided by the financial arrangement is limited to emergency power.

5. The owner/operator shall comply with the applicable record keeping requirements specified in 63.6655 and 63.6660.

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION K: TITLE V Administration

GENERAL PROVISIONS

1. This permit may be revised, revoked, reopened and reissued, or terminated for cause, or for failure to comply with regulatory requirements, permit terms, or conditions. [3004(a)(7)(C)]
2. This permit does not convey any property rights of any sort or any exclusive privilege. [3004(a)(7)(E)]

Permit Renewal and Expiration

3. (A) Except for solid waste incineration facilities subject to standards under section 129(e) of the Clean Air Act, this permit shall expire five years from the date that this Title V permit is issued. The operator's right to operate under this permit terminates at midnight on this date, unless the facility is protected by an application shield in accordance with Rule 3002(b), due to the filing of a timely and complete application for a Title V permit renewal, consistent with Rule 3003. [3004(a)(2), 3004(f)]

(B) A Title V permit for a solid waste incineration facility combusting municipal waste subject to standards under Section 129(e) of the Clean Air Act shall expire 12 years from the date of issuance unless such permit has been renewed pursuant to this regulation. These permits shall be reviewed by the Executive Officer at least every five years from the date of issuance. [3004(f)(2)]
4. To renew this permit, the operator shall submit to the Executive Officer an application for renewal at least 180 days, but not more than 545 days, prior to the expiration date of this permit. [3003(a)(6)]

Duty to Provide Information

5. The applicant for, or holder of, a Title V permit shall furnish, pursuant to Rule 3002(d) and (e), timely information and records to the Executive Officer or designee within a reasonable time as specified in writing by the Executive Officer or designee. [3004(a)(7)(F)]

Payment of Fees

6. The operator shall pay all required fees specified in Regulation III - Fees. [3004(a)(7)(G)]

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION K: TITLE V Administration

Reopening for Cause

7. The Executive Officer will reopen and revise this permit if any of the following circumstances occur:
- (A) Additional regulatory requirements become applicable with a remaining permit term of three or more years. Reopening is not required if the effective date of the requirement is later than the expiration date of this permit, unless the permit or any of its terms and conditions has been extended pursuant to paragraph (f)(4) of Rule 3004.
 - (B) The Executive Officer or EPA Administrator determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.
 - (C) The Executive Officer or EPA Administrator determines that the permit must be revised or revoked to assure compliance with the applicable requirements. [3005(g)(1)]

COMPLIANCE PROVISIONS

8. The operator shall comply with all regulatory requirements, and all permit terms and conditions, except:
- (A) As provided for by the emergency provisions of condition no. 17 or condition no. 18, or
 - (B) As provided by an alternative operating condition granted pursuant to a federally approved (SIP-approved) Rule 518.2.

Any non-compliance with any federally enforceable permit condition constitutes a violation of the Federal Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or revision; or denial of a permit renewal application. Non-compliance may also be grounds for civil or criminal penalties under the California State Health and Safety Code. [3004(a)(7)(A)]

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION K: TITLE V Administration

9. The operator shall allow the Executive Officer or authorized representative, upon presentation of appropriate credentials to:
 - (A) Enter the operator's premises where emission-related activities are conducted, or records are kept under the conditions of this permit;
 - (B) Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
 - (C) Inspect at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
 - (D) Sample or monitor at reasonable times, substances or parameters for the purpose of assuring compliance with the facility permit or regulatory requirements. [3004(a)(10)(B)]

10. All terms and conditions in this permit, including any provisions designed to limit a facility's potential to emit, are enforceable by the EPA Administrator and citizens under the federal Clean Air Act, unless the term or condition is designated as not federally enforceable. Each day during any portion of which a violation occurs is a separate offense. [3004(g)]

11. A challenge to any permit condition or requirement raised by EPA, the operator, or any other person, shall not invalidate or otherwise affect the remaining portions of this permit. [3007(b)]

12. The filing of any application for a permit revision, revocation, or termination, or a notification of planned changes or anticipated non-compliance does not stay any permit condition. [3004(a)(7)(D)]

13. It shall not be a defense for a person in an enforcement action, including those listed in Rule 3002(c)(2), that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit, except as provided for in "Emergency Provisions" of this section. [3004(a)(7)(H)]

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION K: TITLE V Administration

14. The operator shall not build, erect, install, or use any equipment, the use of which, without resulting in a reduction in the total release of air contaminants to atmosphere, reduces or conceals an emission which would otherwise constitute a violation of Chapter 3 (commencing with Section 41700) of Part 4, of Division 26 of the California Health and Safety Code or of AQMD rules. This rule shall not apply to cases in which the only violation involved is of Section 41700 of the California Health and Safety Code, or Rule 402 of AQMD Rules. [408]
15. Nothing in this permit or in any permit shield can alter or affect:
- (A) Under Section 303 of the federal Clean Air Act, the provisions for emergency orders;
 - (B) The liability of the operator for any violation of applicable requirements prior to or at the time of permit issuance;
 - (C) The applicable requirements of the Acid Rain Program, Regulation XXXI;
 - (D) The ability of EPA to obtain information from the operator pursuant to Section 114 of the federal Clean Air Act;
 - (E) The applicability of state or local requirements that are not "applicable requirements", as defined in Rule 3000, at the time of permit issuance but which do apply to the facility, such as toxics requirements unique to the State; and
 - (F) The applicability of regulatory requirements with compliance dates after the permit issuance date. [3004(c)(3)]
16. For any portable equipment that requires an AQMD or state permit or registration, excluding a) portable engines, b) military tactical support equipment and c) AQMD-permitted portable equipment that are not a major source, are not located at the facility for more than 12 consecutive months after commencing operation, and whose operation does not conflict with the terms or conditions of this Title V permit: 1) the facility operator shall keep a copy of the AQMD or state permit or registration; 2) the equipment operator shall comply with the conditions on the permit or registration and all other regulatory requirements; and 3) the facility operator shall treat the permit or registration as a part of its Title V permit, subject to recordkeeping, reporting and certification requirements. [3004(a)(1)]

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION K: TITLE V Administration EMERGENCY PROVISIONS

17. An emergency¹ constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limit only if:
- (A) Properly signed, contemporaneous operating records or other credible evidence demonstrate that:
 - (1) An emergency occurred and the operator can identify the cause(s) of the emergency;
 - (2) The facility was operated properly (i.e. operated and maintained in accordance with the manufacturer's specifications, and in compliance with all regulatory requirements or a compliance plan), before the emergency occurred;
 - (3) The operator took all reasonable steps to minimize levels of emissions that exceeded emissions standard, or other requirements in the permit; and,
 - (4) The operator submitted a written notice of the emergency to the AQMD within two working days of the time when the emissions limitations were exceeded due to the emergency. The notice shall contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken; and
 - (B) The operator complies with the breakdown provisions of Rule 430 – Breakdown Provisions, or subdivision (i) of Rule 2004 – Requirements, whichever is applicable. [3002(g), 430, 2004(i)]
18. The operator is excused from complying with any regulatory requirement that is suspended by the Executive Officer during a state of emergency or state of war emergency, in accordance with Rule 118 - Emergencies. [118]

¹ "Emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the operator, including acts of God, which: (A) requires immediate corrective action to restore normal operation; and (B) causes the facility to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency; and (C) is not caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION K: TITLE V Administration RECORDKEEPING PROVISIONS

19. In addition to any other recordkeeping requirements specified elsewhere in this permit, the operator shall keep records of required monitoring information, where applicable, that include:
- (A) The date, place as defined in the Title V permit, and time of sampling or measurements;
 - (B) The date(s) analyses were performed;
 - (C) The company or entity that performed the analyses;
 - (D) The analytical techniques or methods used;
 - (E) The results of such analyses; and
 - (F) The operating conditions as existing at the time of sampling or measurement. [3004(a)(4)(B)]
20. The operator shall maintain records pursuant to Rule 109 and any applicable material safety data sheet (MSDS) for any equipment claimed to be exempt from a written permit by Rule 219 based on the information in those records. [219(t)]
21. The operator shall keep all records of monitoring data required by this permit or by regulatory requirements for a period of at least five years from the date of the monitoring sample, measurement, report, or application. [3004(a)(4)(E)]

REPORTING PROVISIONS

22. The operator shall comply with the following requirements for prompt reporting of deviations:
- (A) Breakdowns shall be reported as required by Rule 430 – Breakdown Provisions or subdivision (i) of Rule 2004 - Requirements, whichever is applicable.

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION K: TITLE V Administration

- (B) Other deviations from permit or applicable rule emission limitations, equipment operating conditions, or work practice standards, determined by observation or by any monitoring or testing required by the permit or applicable rules that result in emissions greater than those allowed by the permit or applicable rules shall be reported within 72 hours (unless a shorter reporting period is specified in an applicable State or Federal Regulation) of discovery of the deviation by contacting AQMD enforcement personnel assigned to this facility or otherwise calling (800) CUT-SMOG.
 - (C) A written report of such deviations reported pursuant to (B), and any corrective actions or preventative measures taken, shall be submitted to AQMD, in an AQMD approved format, within 14 days of discovery of the deviation.
 - (D) All other deviations shall be reported with the monitoring report required by condition no. 23. [3004(a)(5)]
23. Unless more frequent reporting of monitoring results are specified in other permit conditions or in regulatory requirements, the operator shall submit reports of any required monitoring to the AQMD at least twice per year. The report shall include a) a statement whether all monitoring required by the permit was conducted; and b) identification of all instances of deviations from permit or regulatory requirements. A report for the first six calendar months of the year is due by August 31 and a report for the last six calendar months of the year is due by February 28. [3004(a)(4)(F)]
24. The operator shall submit to the Executive Officer and to the Environmental Protection Agency (EPA), an annual compliance certification. For RECLAIM facilities, the certification is due when the Annual Permit Emissions Program (APEP) report is due and shall cover the same reporting period. For other facilities, the certification is due on March 1 for the previous calendar year. The certification need not include the period preceding the date the initial Title V permit was issued. Each compliance certification shall include:
- (A) Identification of each permit term or condition that is the basis of the certification;

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SECTION K: TITLE V Administration

- (B) The compliance status during the reporting period;
- (C) Whether compliance was continuous or intermittent;
- (D) The method(s) used to determine compliance over the reporting period and currently, and
- (E) Any other facts specifically required by the Executive Officer to determine compliance.

The EPA copy of the certification shall be sent to: Director of the Air Division Attn:
Air-3 USEPA, Region IX 75 Hawthorne St. San Francisco, CA 94105 [3004(a)(10)(E)]

25. All records, reports, and documents required to be submitted by a Title V operator to AQMD or EPA shall contain a certification of accuracy consistent with Rule 3003(c)(7) by a responsible official (as defined in Rule 3000). [3004(a)(12)]

PERIODIC MONITORING

26. All periodic monitoring required by this permit pursuant to Rule 3004(a)(4)(c) is based on the requirements and justifications in the AQMD document "Periodic Monitoring Guidelines for Title V Facilities" or in case-by-case determinations documented in the TitleV application file. [3004(a)(4)]

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION K: TITLE V Administration

FACILITY RULES

This facility is subject to the following rules and regulations

With the exception of Rule 402, 473, 477, 1118 and Rules 1401 through 1420, the following rules that are designated as non-federally enforceable are pending EPA approval as part of the state implementation plan. Upon the effective date of that approval, the approved rule(s) will become federally enforceable, and any earlier versions of those rules will no longer be federally enforceable.

RULE SOURCE	Adopted/Amended Date	FEDERAL Enforceability
RULE 1110.2	2-1-2008	Federally enforceable
RULE 1110.2	9-7-2012	Non federally enforceable
RULE 1113	11-8-1996	Federally enforceable
RULE 1113	6-3-2011	Non federally enforceable
RULE 1113	7-13-2007	Federally enforceable
RULE 1146	11-17-2000	Federally enforceable
RULE 1146	9-5-2008	Non federally enforceable
RULE 1171	2-1-2008	Federally enforceable
RULE 1171	5-1-2009	Non federally enforceable
RULE 1303(a)	12-6-2002	Non federally enforceable
RULE 1303(a)(1)-BACT	12-6-2002	Non federally enforceable
RULE 1303(a)(1)-BACT	5-10-1996	Federally enforceable
RULE 1303(a)-BACT	5-10-1996	Federally enforceable
RULE 1303(b)(1)-Modeling	12-6-2002	Non federally enforceable
RULE 1303(b)(1)-Modeling	5-10-1996	Federally enforceable
RULE 1303(b)(2)-Offset	12-6-2002	Non federally enforceable
RULE 1303(b)(2)-Offset	5-10-1996	Federally enforceable
RULE 1303(b)(3)	12-6-2002	Non federally enforceable
RULE 1303(b)(3)	5-10-1996	Federally enforceable
RULE 1304(c)-Offset Exemption	6-14-1996	Federally enforceable
RULE 1325	6-3-2011	Non federally enforceable

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION K: TITLE V Administration

RULE SOURCE	Adopted/Amended Date	FEDERAL Enforceability
RULE 1401	9-10-2010	Non federally enforceable
RULE 1470	5-4-2012	Non federally enforceable
RULE 1703(a)(2) - PSD-BACT	10-7-1988	Federally enforceable
RULE 1714	11-5-2010	Non federally enforceable
RULE 2005	6-3-2011	Federally enforceable
RULE 2012	5-6-2005	Federally enforceable
RULE 2012(e)(1)(A)(i)-NOx Process Unit	12-7-1995	Federally enforceable
RULE 2012(e)(1)(A)(i)-NOx Process Unit	4-11-1997	Non federally enforceable
RULE 218	5-14-1999	Federally enforceable
RULE 3002	11-14-1997	Federally enforceable
RULE 3002	11-5-2010	Non federally enforceable
RULE 3003	11-14-1997	Federally enforceable
RULE 3003	11-5-2010	Non federally enforceable
RULE 3004	12-12-1997	Federally enforceable
RULE 3004(a)(4)-Periodic Monitoring	12-12-1997	Federally enforceable
RULE 3005	11-14-1997	Federally enforceable
RULE 3005	11-5-2010	Non federally enforceable
RULE 3006	11-14-1997	Federally enforceable
RULE 3006	11-5-2010	Non federally enforceable
RULE 3007	10-8-1993	Federally enforceable
RULE 301	6-1-2012	Non federally enforceable
RULE 401	11-9-2001	Non federally enforceable
RULE 401	3-2-1984	Federally enforceable
RULE 403	4-2-2004	Federally enforceable
RULE 403	6-3-2005	Federally enforceable
RULE 407	4-2-1982	Federally enforceable
RULE 409	8-7-1981	Federally enforceable
RULE 431.1	6-12-1998	Federally enforceable
RULE 431.2	5-4-1990	Federally enforceable

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

SECTION K: TITLE V Administration

RULE SOURCE	Adopted/Amended Date	FEDERAL Enforceability
RULE 431.2	9-15-2000	Non federally enforceable
RULE 475	10-8-1976	Federally enforceable
RULE 475	8-7-1978	Non federally enforceable
CA PRC CEQA	11-23-1970	Non federally enforceable
40CFR 60 Subpart Db	1-28-2009	Federally enforceable
40CFR 60 Subpart Db	11-16-2006	Federally enforceable
40CFR 60 Subpart Db	2-27-2006	Federally enforceable
40CFR 60 Subpart Db	9-7-1990	Federally enforceable
40CFR 60 Subpart Dc	10-4-1991	Federally enforceable
40CFR 60 Subpart Dc	2-27-2006	Federally enforceable
40CFR 60 Subpart IIII	6-28-2011	Federally enforceable
40CFR 63SubpartJJJJJ	3-21-2011	Federally enforceable
40CFR 63SubpartZZZZ	3-9-2011	Federally enforceable
40CFR 72 - Acid Rain Provisions	11-24-1997	Federally enforceable

**FACILITY PERMIT TO OPERATE
PALEN SOLAR ELECTRIC GENERATING STATION**

APPENDIX A: NOX AND SOX EMITTING EQUIPMENT EXEMPT FROM WRITTEN
PERMIT PURSUANT TO RULE 219

NONE

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

APPENDIX B: RULE EMISSION LIMITS [RULE 1113 06-03-2011]

- (1) Except as provided in paragraphs (c)(3), (c)(4), and designated coatings averaged under (c)(6) of Rule 1113, no person shall supply, sell, offer for sale, market, manufacture, blend, repackage, apply, store at a worksite, or solicit the application of any architectural coating within the District:
 - (A) That is listed in the Table of Standards 1 and contains VOC (excluding any colorant added to tint bases) in excess of the corresponding VOC limit specified in the table, after the effective date specified; or
 - (B) That is not listed in the Table of Standards 1, and contains VOC (excluding any colorant added to tint bases) in excess of 250 grams of VOC per liter of coating (2.08 pounds per gallon), less water, less exempt compounds, until January 1, 2014, at which time the limit drops to 50 grams of VOC per liter of coating, less water, less exempt compounds (0.42 pounds per gallon).
- (2) No person within the District shall add colorant at the point of sale that is listed in the Table of Standards 2 and contains VOC in excess of the corresponding VOC limit specified in the Table of Standards 2, after the effective date specified.

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

APPENDIX B: RULE EMISSION LIMITS [RULE 1113 06-03-2011]

TABLE OF STANDARDS 1 VOC LIMITS

**Grams of VOC Per Liter of Coating,
 Less Water and Less Exempt Compounds**

COATING CATEGORY	Ceiling Limit ¹	Current Limit ²	Effective Date		
			7/1/08	1/1/12	1/1/14
Bond Breakers		350			
Clear Wood Finishes		275			
Varnish	350	275			
Sanding Sealers	350	275			
Lacquer		275			
Concrete-Curing Compounds		100			
Concrete-Curing Compounds For Roadways and Bridges ³		350			
Concrete Surface Retarder		250			50
Driveway Sealer		100		50	
Dry-Fog Coatings		150			50
Faux Finishing Coatings					
Clear Topcoat		350		200	
Decorative Coatings		350			100
Glazes		350			
Japan		350			
Trowel Applied Coatings		350		150	50
Fire-Proofing Coatings		350			150
Flats	250	50	50		
Floor Coatings	100	50			
Form Release Compound		250			100
Graphic Arts (Sign) Coatings		500			150
Industrial Maintenance (IM) Coatings	420	100			
High Temperature IM Coatings		420			
Non-Sacrificial Anti-Graffiti Coatings		100			
Zinc-Rich IM Primers	340	100			
Magnesite Cement Coatings		450			
Mastic Coatings		300			100
Metallic Pigmented Coatings	500	500			150
Multi-Color Coatings		250			
Nonflat Coatings	150	50			
Pre-Treatment Wash Primers		420			
Primers, Sealers, and Undercoaters	200	100			
Reactive Penetrating Sealers		350			
Recycled Coatings		250			
Roof Coatings	250	50			
Roof Coatings, Aluminum		100			

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

APPENDIX B: RULE EMISSION LIMITS [RULE 1113 06-03-2011]

Roof Primers, Bituminous	350	350		
Rust Preventative Coatings	400	100		
Stone Consolidant		450		
Sacrificial Anti-Graffiti Coatings		100		50
Shellac				
Clear		730		
Pigmented		550		
Specialty Primers	350	100		
Stains		100		

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

APPENDIX B: RULE EMISSION LIMITS [RULE 1113 06-03-2011]

COATING CATEGORY	Ceiling Limit ¹	Current Limit ²	Effective Date		
			7/1/08	1/1/12	1/1/14
Stains, Interior	250	250			
Swimming Pool Coatings					
Repair		340			
Other		340			
Traffic Coatings		100			
Waterproofing Sealers	250	100			
Waterproofing Concrete/Masonry Sealers	400	100			
Wood Preservatives		350			

1. The specified ceiling limits are applicable to products sold under the Averaging Compliance Option.
2. The specified limits remain in effect unless revised limits are listed in subsequent columns in the Table of Standards.
3. Does not include compounds used for curbs and gutters, sidewalks, islands, driveways and other miscellaneous concrete areas.

TABLE OF STANDARDS 1 (cont.) VOC LIMITS

Grams of VOC Per Liter of Material

COATING	Limit
Low-Solids Coating	120

TABLE OF STANDARDS 2 VOC LIMITS FOR COLORANTS

Grams of VOC Per Liter of Colorant Less Water and Less Exempt Compounds

COLORANT	Limit ⁴
Architectural Coatings, excluding IM Coatings	50
Solvent-Based IM	600
Waterborne IM	50

4. Effective January 1, 2014.

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

APPENDIX B: RULE EMISSION LIMITS [RULE 1113 07-13-2007]

- (1) Except as provided in paragraphs (c)(2), (c)(3), (c)(4), and specified coatings averaged under (c)(6), no person shall supply, sell, offer for sale, manufacture, blend, or repackage any architectural coating for use in the District which, at the time of sale or manufacture, contains more than 250 grams of VOC per liter of coating (2.08 pounds per gallon), less water, less exempt compounds, and less any colorant added to tint bases, and no person shall apply or solicit the application of any architectural coating within the District that exceeds 250 grams of VOC per liter of coating as calculated in this paragraph.
- (2) Except as provided in paragraphs (c)(3), (c)(4), and designated coatings averaged under (c)(6), no person shall supply, sell, offer for sale, manufacture, blend, or repackage, for use within the District, any architectural coating listed in the Table of Standards which contains VOC (excluding any colorant added to tint bases) in excess of the corresponding VOC limit specified in the table, after the effective date specified, and no person shall apply or solicit the application of any architectural coating within the District that exceeds the VOC limit as specified in this paragraph. No person shall apply or solicit the application within the District of any industrial maintenance coatings, except anti-graffiti coatings, for residential use or for use in areas such as office space and meeting rooms of industrial, commercial or institutional facilities not exposed to such extreme environmental conditions described in the definition of industrial maintenance coatings; or of any rust-preventative coating for industrial use, unless such a rust preventative coating complies with the Industrial Maintenance Coating VOC limit specified in the Table of Standards.

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

APPENDIX B: RULE EMISSION LIMITS [RULE 1113 07-13-2007]

TABLE OF STANDARDS VOC LIMITS

Grams of VOC Per Liter of Coating, Less Water and Less Exempt Compounds

COATING CATEGORY	Ceiling Limit*	Current Limit	Effective Date					
			1/1/03	1/1/04	1/1/05	7/1/06	7/1/07	7/1/08
Bond Breakers	350							
Clear Wood Finishes	350					275		
Varnish	350					275		
Sanding Sealers	350					275		
Lacquer	680	550			275			
Clear Brushing Lacquer	680				275			
Concrete-Curing Compounds	350						100	
Concrete-Curing Compounds For Roadways and Bridges**	350							
Dry-Fog Coatings	400						150	
Fire-Proofing Exterior Coatings	450	350						
Fire-Retardant Coatings***								
Clear	650							
Pigmented	350							
Flats	250	100						50
Floor Coatings	420		100			50		
Graphic Arts (Sign) Coatings	500							
Industrial Maintenance (IM) Coatings	420			250		100		
High Temperature IM Coatings			420					
Zinc-Rich IM Primers	420		340			100		
Japans/Faux Finishing Coatings	700	350						
Magnesite Cement Coatings	600	450						
Mastic Coatings	300							
Metallic Pigmented Coatings	500							
Multi-Color Coatings	420	250						
Nonflat Coatings	250		150			50		

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

APPENDIX B: RULE EMISSION LIMITS [RULE 1113 07-13-2007]

COATING CATEGORY	Ceiling Limit*	Current Limit	Effective Date					
			1/1/03	1/1/04	1/1/05	7/1/06	7/1/07	7/1/08
Nonflat High Gloss	250		150				50	
Pigmented Lacquer	680	550			275			
Pre-Treatment Wash Primers	780		420					
Primers, Sealers, and Undercoaters	350		200			100		
Quick-Dry Enamels	400		250			150	50	
Quick-Dry Primers, Sealers, and Undercoaters	350		200			100		
Recycled Coatings			250					
Roof Coatings	300		250		50			
Roof Coatings, Aluminum	500				100			
Roof Primers, Bituminous	350		350					
Rust Preventative Coatings	420		400			100		
Shellac								
Clear	730							
Pigmented	550							
Specialty Primers	350					250	100	
Stains	350		250				100	
Stains, Interior	250							
Swimming Pool Coatings								
Repair	650		340					
Other	340							
Traffic Coatings	250	150					100	
Waterproofing Sealers	400		250			100		
Waterproofing	400					100		
Concrete/Masonry Sealers								
Wood Preservatives								
Below-Ground	350							
Other	350							

* The specified limits remain in effect unless revised limits are listed in subsequent columns in the Table of Standards.

** Does not include compounds used for curbs and gutters, sidewalks, islands, driveways and other miscellaneous concrete areas.

*** The Fire-Retardant Coating category will be eliminated on January 1, 2007 and subsumed by the coating category for which they are formulated.

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

APPENDIX B: RULE EMISSION LIMITS [RULE 1113 07-13-2007]

TABLE OF STANDARDS (cont.) VOC LIMITS

Grams of VOC Per Liter of Material

COATING	Limit
Low-Solids Coating	120

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

APPENDIX B: RULE EMISSION LIMITS [RULE 1171 02-01-2008]

(1) Solvent Requirements

A person shall not use a solvent to perform solvent cleaning operations unless the solvent complies with the applicable requirements set forth below:

	CURRENT LIMITS*	EFFECTIVE 1/1/2008*	EFFECTIVE 1/1/2009
SOLVENT CLEANING ACTIVITY	VOC g/l (lb/gal)	VOC g/l (lb/gal)	VOC g/l (lb/gal)
(A) Product Cleaning During Manufacturing Process Or Surface Preparation For Coating, Adhesive, Or Ink Application			
(i) General	25 (0.21)		
(ii) Electrical Apparatus Components & Electronic Components	100 (0.83)		
(iii) Medical Devices & Pharmaceuticals	800 (6.7)		
(B) Repair and Maintenance Cleaning			
(i) General	25 (0.21)		
(ii) Electrical Apparatus Components & Electronic Components	100 (0.83)		

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

APPENDIX B: RULE EMISSION LIMITS [RULE 1171 02-01-2008]

	CURRENT LIMITS*	EFFECTIVE 1/1/2008*	EFFECTIVE 1/1/2009
SOLVENT CLEANING ACTIVITY (cont.)	VOC g/l (lb/gal)	VOC g/l (lb/gal)	VOC g/l (lb/gal)
(iii) Medical Devices & Pharmaceuticals			
(A) Tools, Equipment, & Machinery	800 (6.7)		
(B) General Work Surfaces	600 (5.0)		
(C) Cleaning of Coatings or Adhesives Application Equipment	25 (0.21)		
(D) Cleaning of Ink Application Equipment			
(i) General	25 (0.21)		
(ii) Flexographic Printing	25 (0.21)		
(iii) Gravure Printing			
(A) Publication	100 (0.83)		
(B) Packaging	25 (0.21)		
(iv) Lithographic (Offset) or Letter Press Printing			
(A) Roller Wash, Blanket Wash, & On-Press Components			
(I) Newsprint	100 (0.83)		

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

APPENDIX B: RULE EMISSION LIMITS [RULE 1171 02-01-2008]

	CURRENT LIMITS*	EFFECTIVE 1/1/2008*	EFFECTIVE 1/1/2009
SOLVENT CLEANING ACTIVITY (cont.)	VOC g/l (lb/gal)	VOC g/l (lb/gal)	VOC g/l (lb/gal)
(II) Other Substrates	500 (4.2)	100 (0.83)	
(B) Removable Press Components	25 (0.21)		
(v) Screen Printing	500 (4.2)	100 (0.83)	
(vi) Ultraviolet Ink/ Electron Beam Ink Application Equipment (except screen printing)	650 (5.4)	650 (5.4)	100 (0.83)
(vii) Specialty Flexographic Printing	100 (0.83)		
(E) Cleaning of Polyester Resin Application Equipment	25 (0.21)		

* The specified limits remain in effect unless revised limits are listed in subsequent columns.

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

APPENDIX B: RULE EMISSION LIMITS [RULE 1171 05-01-2009]

(1) Solvent Requirements

A person shall not use a solvent to perform solvent cleaning operations unless the solvent complies with the applicable requirements set forth below:

	CURRENT LIMITS*	EFFECTIVE 1/1/2010
SOLVENT CLEANING ACTIVITY	VOC g/l (lb/gal)	VOC g/l (lb/gal)
(A) Product Cleaning During Manufacturing Process Or Surface Preparation For Coating, Adhesive, Or Ink Application		
(i) General	25 (0.21)	
(ii) Electrical Apparatus Components & Electronic Components	100 (0.83)	
(iii) Medical Devices & Pharmaceuticals	800 (6.7)	
(B) Repair and Maintenance Cleaning		
(i) General	25 (0.21)	
(ii) Electrical Apparatus Components & Electronic Components	100 (0.83)	

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

APPENDIX B: RULE EMISSION LIMITS [RULE 1171 05-01-2009]

	CURRENT LIMITS*	EFFECTIVE 1/1/2010
SOLVENT CLEANING ACTIVITY (cont.)	VOC g/l (lb/gal)	VOC g/l (lb/gal)
(iii) Medical Devices & Pharmaceuticals		
(A) Tools, Equipment, & Machinery	800 (6.7)	
(B) General Work Surfaces	600 (5.0)	
(C) Cleaning of Coatings or Adhesives Application Equipment	25 (0.21)	
(D) Cleaning of Ink Application Equipment		
(i) General	25 (0.21)	
(ii) Flexographic Printing	25 (0.21)	
(iii) Gravure Printing		
(A) Publication	100 (0.83)	
(B) Packaging	25 (0.21)	
(iv) Lithographic (Offset) or Letter Press Printing		
(A) Roller Wash, Blanket Wash, & On-Press Components	100 (0.83)	

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

APPENDIX B: RULE EMISSION LIMITS [RULE 1171 05-01-2009]

	CURRENT LIMITS*	EFFECTIVE 1/1/2010
SOLVENT CLEANING ACTIVITY (cont.)	VOC g/l (lb/gal)	VOC g/l (lb/gal)
(B) Removable Press Components	25 (0.21)	
(v) Screen Printing	100 (0.83)	
(vi) Ultraviolet Ink/ Electron Beam Ink Application Equipment (except screen printing)	650 (5.4)	100 (0.83)
(vii) Specialty Flexographic Printing	100 (0.83)	
(E) Cleaning of Polyester Resin Application Equipment	25 (0.21)	

* The specified limits remain in effect unless revised limits are listed in subsequent columns.

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

APPENDIX B: RULE EMISSION LIMITS [40CFR 72 - Acid Rain Provisions 11-24-1997]

1. A Title V permit revision is not required for emission increases that are authorized by allowances acquired under the Acid Rain Program, provided that the increases do not trigger a Title V permit revision under any other applicable requirement. [70.6 (a)(4)(ii)]

Monitoring Requirements

2. The owners and operators and, to the extent applicable, the designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR Parts 74, 75, and 76. [40 CFR 72.50, 72.31, 72.9(b)(1)]
3. The emissions measurements recorded and reported in accordance with 40 CFR Part 75 shall be used to determine compliance by the unit with the acid rain emissions limitations and emissions reduction requirements for sulfur dioxide (SO₂) under the Acid Rain Program. [40 CFR 72.9(b)(2), 40 CFR 75.2]
4. The requirements of 40 CFR Parts 74 and 75 shall not affect the responsibility of the operator to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements and other provisions of this permit. [40 CFR 72.9(b)(3), 40 CFR 72.5]

Sulfur Dioxide Requirements

5. The owners and operators of each source and each affected unit at the source shall:
 - (A) Hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount (after deductions under 40 CFR Part 73, Section 73.34(C)) not less than the total annual emissions of SO₂ for the previous calendar year from the unit; and, [40 CFR 72.9(c)(i)],
 - (B) Comply with the applicable acid rain emissions limitations for SO₂. [40 CFR 72.9(c)(ii)]
6. Each ton of SO₂ emitted in excess of the acid rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act. [40 CFR 72.9(g)(7)]

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

APPENDIX B: RULE EMISSION LIMITS [40CFR 72 - Acid Rain Provisions 11-24-1997]

7. SO₂ allowances shall be held in, deducted from, or transferred among allowance tracking system accounts in accordance with the Acid Rain Program. [40 CFR 72.9(g)(4)]
8. A SO₂ allowance shall not be deducted in order to comply with the requirements under paragraph 41(A) of the SO₂ requirements prior to the calendar year for which the allowance was allocated. [40 CFR 72.9(g)(5)]
9. An affected unit shall be subject to the SO₂ requirements under the Acid Rain Program as follows:[40 CFR 72.6(a)]
 - (A) Starting January 1, 2000, an affected unit under 40 CFR Part 72, Section 72.6(a)(2); or [40 CFR 72.6(a)(2)]
 - (B) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR Part 75, an affected unit under 40 CFR Part 72, Section 72.6(a)(3). [40CFR 72.6(a)(3)]
10. An allowance allocated by the EPA administrator under the Acid Rain Program is a limited authorization to emit SO₂ in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the acid rain permit application, the acid rain permit, or the written exemption under 40 CFR Part 72, Sections 72.7, 72.8, or 72.14, and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization. [40 CFR 72.9 (c)(6)]
11. An allowance allocated by the EPA Administrator under the Acid Rain Program does not constitute a property right. [40 CFR 72.9(c)(7)]

Excess Emissions Requirements

12. The designated representative of an affected unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR Part 77. [40 CFR 72.9(e)]

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

APPENDIX B: RULE EMISSION LIMITS [40CFR 72 - Acid Rain Provisions 11-24-1997]

13. The owners and operators of an affected unit that has excess emissions in any calendar year shall: [40 CFR 72.9(e)(2)]
- (A) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR Part 77; and [40 CFR 72.9(e)(2)(i)]
- (B) Comply with the terms of an approved offset plan, as required by 40 CFR Part 77. [40 CFR 72.9(e)(2)(ii)]

Recordkeeping and Reporting Requirements

14. Unless otherwise provided, the owners and operators of the source and each affected unit at the source that are subject to the acid rain provisions under Title IV shall keep on site at the source each of the following documents for a period of five years from the date the document is created. This period may be extended for cause, at any time prior to the end of five years, in writing by the EPA Administrator or the Executive Officer: [40 CFR 72.9(f)(1)]
- (A) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such five year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative; [40 CFR 72.9(f)(1)(i)]
- (B) All emissions monitoring information, in accordance with 40 CFR Part 75; [40 CFR 72.9(f)(1)(ii)]
- (C) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and, [40 CFR 72.9(f)(1)(iii)]
- (D) Copies of all documents used to complete an acid rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program. [40 CFR 72.9(f)(1)(iv)]

FACILITY PERMIT TO OPERATE PALEN SOLAR ELECTRIC GENERATING STATION

APPENDIX B: RULE EMISSION LIMITS [40CFR 72 - Acid Rain Provisions 11-24-1997]

15. The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR Part 72 Subpart I and 40 CFR Part 75. [40 CFR 72.9(f)(2)]

Liability

16. Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete acid rain permit application, an acid rain permit, or a written exemption under 40 CFR Part 72, Sections 72.7, 72.8, or 72.14, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to Section 113(c) of the Act. [40 CFR 72.9 (g)(1)]
17. Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to Section 113(c) of the Act and 18 U.S.C. 1001. [40 CFR 72.9 (g)(2)]
18. No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect. [40 CFR 72.9 (g)(3)]
19. Each affected source and each affected unit shall meet the requirements of the Acid Rain Program. [40 CFR 72.9 (g)(4)]
20. Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source. [40 CFR 72.9 (g)(5)]

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21. Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit. Except as provided under 40 CFR Part 72, Section 72.44 (Phase II repowering extension plans) and 40 CFR Part 76, Section 76.11 (NO_x averaging plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR Part 75 (including 40 CFR Part 75, Sections 75.16, 75.17, and 75.18), the owners and operators and the designated representative of one affected unit shall not be liable for any violation by any other affected unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative. [40 CFR 72.9 (g)(6)]
22. Each violation of a provision of 40 CFR Parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act. [40 CFR 72.9 (g)(7)]

Effect on Other Authorities

23. No provision of the Acid Rain Program, an acid rain permit application, an acid rain permit, or a written exemption under 40 CFR Part 72, Sections 72.7, 72.8, or 72.14 shall be construed as: [40 CFR 72.9 (h)]
 - (A) Except as expressly provided in Title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of Title I of the Act relating to applicable National Ambient Air Quality Standards or state implementation plans; [40 CFR 72.9 (h)(1)]
 - (B) Limiting the number of allowances a unit can hold; *provided*, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the Act; [40 CFR 72.9 (h)(2)]

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(C) Requiring a change of any kind in any state law regulating electric utility rates and charges, affecting any state law regarding such state regulation, or limiting such state regulation, including any prudence review requirements under such state law; [40 CFR 72.9 (h)(3)]

(D) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or, [40 CFR 72.9 (h)(4)]

(E) Interfering with or impairing any program for competitive bidding for power supply in a state in which such program is established. [40 CFR 72.9 (h)(5)]