

DOCKETED

Docket Number:	88-AFC-01C
Project Title:	Compliance - Application for Certification for LUZ Solar Electric Generating Systems Cogeneration Unit VIII
TN #:	232831
Document Title:	88-AFC-1 PWS 2 & 89-AFC-1 PWS 2 - SEGS VIII & IX 2019 CEC Annual Report
Description:	N/A
Filer:	Neal Davies
Organization:	Terra-Gen Operating Company
Submitter Role:	Applicant
Submission Date:	4/24/2020 9:32:13 AM
Docketed Date:	4/24/2020



February 26, 2020

John Heiser
Compliance Project Manager
California Energy Commission
1516 Ninth Street, MS-2000
Sacramento, CA 95814-5512

Subject: 88-AFC-1 PWS 2 & 89-AFC-1 PWS 2 SEGS VIII and SEGS IX 2019 Annual Compliance Report

Dear Mr. Heiser:

Enclosed is the Annual Compliance Report for the SEGS VIII and SEGS IX facilities at Harper Lake. The report includes compliance activities for the period of January 1, 2019 through December 31, 2019, per the revised Annual Reporting Requirements.

If you have any questions, or need additional information, please contact Neal Davies at (760) 762-3100, ext. 225.

Sincerely,

A handwritten signature in black ink, appearing to read "Robert Fimbres".

Robert Fimbres
Site Manager
LUZ Solar Partners
VIII & IX

2019
ANNUAL COMPLIANCE REPORT
SEGS VIII & IX

SUBMITTED TO

CALIFORNIA ENERGY COMMISSION
SACRAMENTO, CALIFORNIA

PREPARED BY

TERRA-GEN OPERATING COMPANY

FOR

LUZ SOLAR PARTNERS VIII & IX
HARPER LAKE, CALIFORNIA

FEBRUARY 13, 2020

TABLE OF CONTENTS**I. AIR QUALITY**

- Statement of Compliance with Air Quality Terms and Conditions of Certification
- Mojave Desert Air Quality Management District correspondence
- Mojave Desert Air Quality Management District HTF Heater Permit to Operate
- Dust Suppressant Application Verification
- Conditions of Certification – Air Quality Compliance
- Title V Permit
- Emissions Testing Newberry Spring

II. BIOLOGICAL RESOURCES / WASTE MANAGEMENT

- Waste contractors list
- Non-hazardous Waste Report
- Hazardous Waste Report
- Hazardous Waste Storage
- Heat Transfer Fluid Waste Manifests
- Heat Transfer Fluid Shipments
- BLM Habitat Well usage
- BRMIP Statement of Compliance

III. TRANSMISSION LINE SAFETY AND NUISANCE

- Conditions of Certification
- Transmission Line Inspection

IV. DIESEL FUEL DATA**V. QUALIFYING FACILITY STATUS****VI. CONDITIONS OF CERTIFICATION**

- Compliance Matrix
- Construction / Operation Schedule
- Facility Changes
- Elapsed Submittal Deadlines
- Filings with other Governmental Agencies
- Onsite Compliance File – Additions / Deletions

VII. WATER RESOURCES / WATER

- Lohontan Regional Water Quality Control Board Annual Report
- Waste Discharge Requirements
- Depth to Groundwater Measurements

- Condition of Certification Water – 8

TABLE OF CONTENTS (CONTINUED)

VIII. DECOMMISSIONING

- Decommissioning Fund
- Proof of Pollution Insurance

IX. TRAFFIC AND TRANSPORTATION

- Road Monitoring

Statement of Compliance with Air Quality Terms and Conditions of Certification

**SEGS VIII & SEGS IX
Statement of Compliance**

To the best of our knowledge and understanding, SEGS VIII and SEGS IX are in compliance with the Conditions of Certification related to air quality, except for those Conditions identified elsewhere in this report.



Robert Fimbres
Site Manager
LUZ Solar Partners
SEGS VIII & IX

2019 ANNUAL COMPLIANCE REPORT

I. AIR QUALITY

SEGS VIII & IX

Mojave Desert Air Quality Management District Correspondence

2019 MDAQMD Correspondence Summary

Date	Subject
January	2018 Fourth Quarter Emissions Monitoring Report
February	Operating Permit Fees
February	Title V Permit Fees
April	2019 First Quarter Emissions Monitoring Report
July	2019 Second Quarter Emissions Monitoring Report
August	2019 RATA and Compliance Test Protocol Plan
September	2019 RATA and Compliance Test Report
October	2019 Third Quarter Emissions Monitoring Report

Mojave Desert Air Quality Management District HTF Heater Permit to Operate

2019 SEGS VIII & SEGS IX Permit to Operate



MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

14306 Park Avenue, Victorville, CA 92392-2310
760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

PERMIT TO OPERATE

B002013

Operation under this permit must be conducted in compliance with all information included with the initial application, initial permit condition, and conditions contained herein. The equipment must be maintained and kept in good operating condition at all times. This Permit to Operate or copy must be posted on or within 8 meters of equipment. If a copy is posted, the original must be maintained on site, available for inspection at all times.

EXPIRES LAST DAY OF: MARCH 2020

OWNER OR OPERATOR (Co. #603)

Luz Solar Partners LTD., VIII
437 Madison Avenue 22nd Floor, Suite A
New York, NY 10022

EQUIPMENT LOCATION (Fac. #975)

Harper Lake SEGS VIII
43880 Harper Lake Road
Hinkley, CA 92347

Description:

HEATER, SEGS VIII HTF consisting of: A Kinetics Technology Inc. natural gas-fired heater with a maximum design heat input of 872 MMBTU/hr and including the following equipment (motors are added to the rating assuming 2550 Btu per horsepower):

EQUIPMENT

Capacity	Equipment Description
872	Heaters, Vertical Tube Box - Four (H-200, H-210, H-220 & H-230) each with 32 Alzeta Pyrocore radiant burners
2.04	Blowers, Forced Draft - Two (B-235 @ 300 hp & 1190 rpm; B-255 @ 500 hp @ 1200 rpm)
2.04	Fans, Induced Draft - Two (B-236 @ 300 hp & 885 rpm; B-256 @ 500 hp & 1190 rpm)
22.9	Pumps, HTF Var Freq - Three (P-300, P-310 & P-300) 3,000 hp each @ 1794 rpm
0.3	Pump, Freeze Protection - One (P-365) 100 hp @ 1775 rpm

CONDITIONS:

1. The maximum hourly and daily emission limits (Reference letter from WZI, Inc. dated May 2, 1994, subject "Proposed Emission Limits for SEGS VIII and SEGS IX Heaters") for the following criteria pollutants are:

- NOx - 81.2 lb/h (which is based on a ppmv of 67) but is not exceed 580 lbs in any one day.
- CO - 248 lb/h (which is based on a ppmv of 350) but is not to exceed 550 lbs in any one day.
- PM10 - 5.2 lb/h but not to exceed 83.2 lb in any one day.

Fee Schedule: 2 (f) Rating: 899280000 Btu SIC: 4911 SCC: 10100601 Location/UTM(Km): 469E/3876N

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

Luz Solar Partners LTD., VIII
43880 Harper Lake Road
Hinkley, CA 92347

By:
Brad Poiriez
Air Pollution Control Officer

- a) The average hourly emission for Nox and CO shall be reported per the approved monitoring plan. The average hourly rate shall be the arithmetic average of four or more data points equally spaced over each 1-hour period.
- b) Daily emissions shall be reported based on the hourly emissions reported above.
- c) All PM emissions from these heaters shall be assumed to be 100% PM10.

2. The total annual emissions for Nox and CO when calculated on a rolling annual average shall not exceed the following:

NOx - 27.9 tons/year
CO - 26.5 tons/year

Compliance with this emission limit shall be determined by using CEMS data and calculating an arithmetic average of the previous 365 days (Day is defined as any 24-hour period beginning at midnight).

3. The daily emissions of NOx and CO and as well as O2 (a diluent gas) shall be monitored using a Continuous Emissions Monitoring System (CEMS) which shall be operating at all times in accordance with the District approval monitoring plan.

4. The following are the acceptability testing requirements for the CEMS:

- a) For NOx CEMS - Performance Specifications 2 of 40 CFR 60 Appendix B.
- b) For O2 CEMS - Performance Specification 3 of 40 CFR 60 Appendix B.
- c) For CO CEMS - Performance Specification 4 of 40 CFR Appendix B.

5. The following compliance tests are required and the emission limit given above shall not be exceeded:

- a) At least once every twelve (12) months: a compliance test for NOx (as NO2 in ppmv at 3% O2 & dry);
- b) At least once every twelve (12) months: a compliance test for CO (in ppmv at 3% O2 & dry);
- c) At least once every sixty (60) months: a compliance test to verify PM10 emissions rate, commencing in 1997. However, PM10 emission compliance testing may be required at the discretion of the District.

The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to reporting@mdaqmd.ca.gov

6. Daily logs shall be maintained which include, but is not limited to, the following:

- a) Hours of operation/day;
- b) Dates of routine maintenance;
- c) Dates of major repairs and/or replacements;
- d) Natural gas use; and,
- e) Amount of HTF added to system.

7. Quarterly reports shall be provided to the District Compliance Supervisor in accordance with the District approved monitoring plan. All quarterly reports shall be postmarked by the 30th day following the end of each calendar quarter.



MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

14306 Park Avenue, Victorville, CA 92392-2310
760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

PERMIT TO OPERATE

B002016

Operation under this permit must be conducted in compliance with all information included with the initial application, initial permit condition, and conditions contained herein. The equipment must be maintained and kept in good operating condition at all times. This Permit to Operate or copy must be posted on or within 8 meters of equipment. If a copy is posted, the original must be maintained on site, available for inspection at all times.

EXPIRES LAST DAY OF: MARCH 2020

OWNER OR OPERATOR (Co. #2427)

Luz Solar Partners LTD., IX
437 Madison Avenue, 22nd Floor, Suite A
New York, NY 10022

EQUIPMENT LOCATION (Fac. #3819)

Harper Lake SEGS IX
43880 Harper Lake Road
Hinkley, CA 92347

Description:

HEATER, SEGS IX HTF consisting of: A Kinetics Technology Inc., natural gas-fired heater with a maximum design heat input of 872 MMBtu/hr and including the following equipment (motors are added to the rating assuming 2550 Btu per horsepower):

EQUIPMENT

Capacity	Equipment Description
872	Heaters, Vertical Tube Box - Four (H-200, H-210, H-220 & H230) each with 32 Alzeta Pyrocore radiant burners
1.53	Blowers, Forced Draft - Two (B-235 & B-255) 300 bhp ea. @ 1190 rpm
1.53	Fans, Induced Draft - Two (B-236 & B256) 300 bhp ea. @885 rpm
22.95	Pumps, HTF Var. Freq - Three (P-300, P310 & P-300) 3,000 bhp ea @ 1794 rpm
0.3	Pumps, Freeze Protection - One (P-365) 100 bhp @ 1775 rpm

CONDITIONS:

1. The maximum hourly and daily emission limits (Reference letter from WZI, Inc. dated May 2, 1994, subject "Proposed Emission Limits for SEGS VIII and SEGS IX Heaters") for the following criteria pollutants are:

Nox - 81.2 lb/h (which is based on a ppmv of 67) but is not exceed 580 lb in any one day.
CO - 248 lb/h (which is based on a ppmv of 350) but is not to exceed 550 lb in any one day.
PM10 - 5.2 lb/h but not to exceed 83.2 lb in any one day.

Fee Schedule: 2 (f) Rating: 898310000 Btu SIC: 4911 SCC: 10100601 Location/UTM(Km): 469E/3876N

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

Luz Solar Partners LTD., IX
43880 Harper Lake Road
Hinkley, CA 92347

By:


Brad Poiriez

Air Pollution Control Officer

- a) The average hourly emission for NOx and CO shall be reported per the approved monitoring plan. The average hourly rate shall be the arithmetic average of four or more data points equally spaced over each 1-hour period.
- b) Daily emissions shall be reported based on the hourly emissions reported above.
- c) All PM emissions from these heaters shall be assumed to be 100% PM10.

2. The total annual emissions for NOx and CO when calculated on a rolling annual average shall not exceed the following:

NOx - 27.9 tons/year
CO - 26.5 tons/year

Compliance with this emission limit shall be determined by using CEMS data and calculating an arithmetic average of the previous 365 days (Day is defined as any 24-hour period beginning at midnight).

3. The daily emissions of NOx and CO and as well as O2 (a diluent gas) shall be monitored using a Continuous Emissions Monitoring System (CEMS) which shall be operating at all times in accordance with the District approval monitoring plan.

4. The following are the acceptability testing requirements for the CEMS:

- a) For NOx CEMS - Performance Specifications 2 of 40 CFR 60 Appendix B.
- b) For O2 CEMS - Performance Specification 3 of 40 CFR 60 Appendix B.
- c) For CO CEMS - Performance Specification 4 of 40 CFR Appendix B.

5. The following compliance tests are required and the emission limit given above shall not be exceeded:

- a) At least once every twelve (12) months: a compliance test for NOx (as NO2 in ppmv at 3% O2 & dry);
- b) At least once every twelve (12) months: a compliance test for CO (in ppmv at 3% O2 & dry);
- c) At least once every sixty (60) months: a compliance test to verify PM10 emissions rate, commencing in 1997. However, PM10 emission compliance testing may be required at the discretion of the District.

The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to reporting@mdaqmd.ca.gov

6. Daily logs shall be maintained which included, but is not limited to, the following:

- a) Hours of operation/day
- b) Dates of routine maintenance
- c) Dates of major repairs and/or replacements
- d) Natural gas use
- e) Amount of HTF added to system

7. Quarterly reports shall be provided to the District Compliance Supervisor in accordance with the District approved monitoring plan. All quarterly reports shall be postmarked by the 30th day following the end of each calendar quarter.

Dust Suppressant Application Verification

2019 Dust Suppressant Application

During the month of January 2019, Magnesium Chloride was applied to 15.5 miles of off-site dirt roads for annual PM10 mitigation. SEGS VIII was invoiced for 1.5 miles of road application. SEGS IX was invoiced for 14.0 miles of application.

SOUTH WESTERN SEALCOATING, INC.

Contractors Lic. No. #678845
23644 Adams Avenue
Murrieta, California 92562

(951)677-6228

BILL OF LADING

12871

RECEIVED
JAN 23 2019
By _____

• SOLD TO: Terra Gen. Luz Solar Energy

• SHIP TO: Hinkley C.A

Load Time: 1-19
Load Date: 1-19
De. Time: 6:00 AM
Del. Date: 1-10-19
CARRIER: S.W.S.

ORIGIN NO. New York CA RELEASE NO. CARRIER BL.

CONTRACT APPLICATION
OF
MAGNESIUM CHLORIDE

METER READING U.S. GAL.

End _____ GAL. Weight Ticket # _____
START _____ GAL. Truck Lic. 1007 GROSS LBS. _____
TOTAL _____ GAL. Trailer Lic. _____ TARE LBS. _____
Loaded By _____ Rec. By _____ NET LBS. _____
TOTAL TONS 250

SOUTH WESTERN SEALCOATING, INC.

Thank You

Conditions of Certification – Air Quality Compliance**SEGS VIII & IX
Conditions of Certification
Air Quality Compliance**

To the best of our knowledge and understanding as attested to previously in this report, SEGS VIII and SEGS IX are in compliance with the Conditions of Certification relative to air quality with the following exceptions:

SEGS VIII

Condition 1 – 1

Information and records are not available pertaining to the submission of the required copies of bid specifications, installation schedules and purchase orders that were required for the low NOx burner installation at the SEGS III, IV, and V facilities.

SEGS IX

Condition 1 – 3 (b)

Routine source testing has been performed on the modified internal combustion engine and a copy submitted to the Mojave Desert Air Quality Management District.

Condition 1 – 39

Excess emissions cannot be calculated per 40 CFR 60.7 and 60.13 since heater operation does not satisfy the definition of a “boiler operating day” as contained in 40 CFR 60.41a. NOx emissions are being calculated on a 30-day rolling average.

Title V Permit

The Title V Permit was issued October 26, 2000. An application for permit renewal was submitted in April, 2015. Mojave Desert Air Quality Management District issued the new Title V Permit October 26, 2016.

MOJAVE DESERT
AIR QUALITY MANAGEMENT DISTRICT

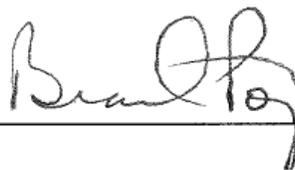
Federal Operating Permit Number: 60300975

For: Luz Solar Partners Ltd. VIII & IX

Facility: SEGS VIII & IX

Renewed Pursuant to MDAQMD Regulation XII
Effective Date: October 26, 2016

This Federal Operating Permit Expires:
October 26, 2021



Issued By: Brad Poiriez
Executive Director

14306 PARK AVENUE, VICTORVILLE, CALIFORNIA 92392
PHONE (760) 245-1661
FAX (760) 245-2022

PERMIT REVISIONS

None at this time.

TABLE OF CONTENTS

	<u>Page</u>
Part I	Introductory Information I-4 through I-6
Part II	Applicable Requirements and Emissions Limitations II-7 through II-26
Part III	Monitoring, Record keeping, Reporting, Testing Requirements III-27 through III-40
Part IV	Standard Federal Operating Permit Conditions IV-41 through IV-43
Part V	Operational Flexibility Provisions V-44
Part VI	Conventions, Abbreviations, Definitions. VI-45 through VI-46

PART I
INTRODUCTORY INFORMATION

A. FACILITY IDENTIFYING INFORMATION:

Owner/Company Name: Luz Solar Partners VIII & IX

Owner Mailing Address: Luz Solar Partners Ltd. VIII & IX
41100 US Highway 395
Boron, CA 93516-2109

Facility Name: SEGS VIII & IX

Facility Address: Luz Solar Partners VIII & IX
43880 Harper Lake Road
Hinkley, CA 92347

MDAQMD Federal Operating Permit Number: 060300975

MDAQMD Company Number: 0603

MDAQMD Facility Number: 00975

Responsible Official: Michael R. Flynn
Title: Plant General Manager
Phone Number: 760-762-5662 (ext. 395)

Facility “Site” Contacts: Glen T. King
Title: Environmental Specialist, SEGS III - IX
Phone Number: 760-762-1505
Fax Number: 760-762-5644
Cellular Number: 661-202-5837

Nature of Business: Electrical Power Generation
SIC Code: 4911
Facility Location: UTM (Km): 470E/3877N

B. DESCRIPTION OF FACILITY:

Federal Operating Permit (FOP number: 060300975) for Luz Solar Partners VIII & IX - SEGS VIII & IX, located at 43880 Harper Lake Road, Hinkley, CA. 92397. The facility is a Solar Electrical Power Generation facility, which generates electric power through the use of solar mirrors, heat transfer fluid (HTF) systems, steam turbines, and natural gas fired HTF (Heat Transfer Fluid) heaters. The permitted equipment consists of two natural gas fired heaters, two cooling towers, two heat transfer fluid ullage systems, six emergency internal combustion diesel engines, one Gasoline Dispensing Facility, and one Abrasive Blaster.

Luz Solar Partners VIII & IX are a Major Facility (as defined in Rule 1201) for Nitrogen Oxides.

C. EQUIPMENT DESCRIPTION:

1. Two Public Utility Commission (PUC) Quality Natural Gas fired Heaters:

- a. MDAQMD Permit Numbers B002013 and B002016, Kinetics Technology, HTF, natural gas fired heaters, each unit has a maximum heat input of 872 MMBTU/hr and consists of the following equipment:
- Four Vertical Tube Box Heaters, each with 32 Alzeta Pyrocore radiant burners.
 - Three Pumps; 3,000 hp each @ 1794 rpm
 - One Freeze Protection Pump; 100 bhp @ 1775 rpm
 - Continuous Emission Monitoring (CEM) equipment
- B002013 - SEGS VIII
- Two Forced Draft Blowers; one 300 bhp @ 1190 rpm, one 500 hp @ 1200 rpm
 - Two Induced Draft Fans; one 300 bhp @ 885 rpm, one 500 hp @ 1190 rpm
- B002016 - SEGS IX
- Two Forced Draft Blowers; two 300 bhp @ 1190 rpm
 - Two Induced Draft Fans; one 300 bhp @ 885 rpm

2. Two Cooling Towers:

- a. MDAQMD Permit Numbers B003941 and B003943, each is a Marley six cell counterflow model with a design drift rate of 0.0005 % and a circulation rate of 56,400 gpm, including the following equipment:
- Six 150 bhp @ 1790 rpm Exhaust Fans
 - One 40 bhp @ 705 rpm, 6,000 gpm Circulation Pump
 - Four 300 bhp @ 705 rpm, 14,100 gpm Cooling Water Pumps

- One 40 bhp @ 1775 rpm Auxiliary Cooling Water Pump
- Three 20 bhp @ 1765 rpm Tower Makeup Pumps

3. Two Heat Transfer Ullage Systems, which are the heat transfer systems associated with solar energy transfer:
 - a. MDAQMD Permit Numbers B003942 and B003944, each consisting of the following equipment:
 - One 30 bhp @ 3520 rpm, 15 gpm @ 160 psig, Ullage Vessel Pump
 - One 3 bhp @ 1750 rpm, Ullage Cooler Circulation Pump
 - One 204,600 Btu/hr @ 180 psig & 560 degrees F, Ullage Cooler
 - One 650,000 Btu/hr @ 180 psig & 560 degrees F, Ullage Cooler
 - One 2,000 gallon @ 180 psig & 500 degrees F, Ullage Vessel
 - One 2,000 gallon @ 15 psig & 250 degrees F, Ullage Vessel
 - One 3,000 gallon @ 15 psig, Ullage Drain
4. Six Emergency Internal Combustion Engines:
 - a. MDAQMD Permit Numbers E002015 and E002018, each consisting of a Caterpillar Diesel ICE, model SR-4, rated at 890 bhp @ 1800 rpm, used for emergency electrical power.
 - b. MDAQMD Permit Number E003940, containing three Caterpillar Diesel ICE's, Model No. 3306, rated at 267 bhp @ 2100 rpm each, used for emergency fire pumps.
 - c. MDAQMD Permit Number E007525, consists of a John Deere Diesel Powered Air Compressor, Model No. 6076AF-00, rated at 250 bhp @ 2100 rpm, used for emergency compressed air requirements.
5. Gasoline Dispensing Facility:
 - a. MDAQMD Permit Number N002984 consisting of:
 - One above ground storage tank, 2,000 gallon capacity of unleaded gasoline.
 - One above ground storage tank, 1,000 gallon capacity of Diesel fuel.
 - One Gasoline Dispensing Nozzle
 - One Diesel Dispensing Nozzle
 - Phase II Vapor Recovery System
6. Abrasive Blaster:
 - a. MDAQMD Permit Number A008610, consists of a Clemco Abrasive Blasting Machine, 300 pound capacity, Model 1648, Serial No. 10712, operating at a

maximum pressure of 100 psig, capable of emitting 10.6 lbs PM-10/hr.

PART II
FACILITYWIDE APPLICABLE REQUIREMENTS;
EMISSIONS LIMITATIONS; MONITORING, RECORDKEEPING,
REPORTING AND TESTING REQUIREMENTS; COMPLIANCE
CONDITIONS; COMPLIANCE PLANS

A. REQUIREMENTS APPLICABLE TO ENTIRE FACILITY AND EQUIPMENT:

1. A permit is required to operate this facility.
[Rule 203 - *Permit to Operate*; Version in State Implementation Plan (SIP) = California Air Resources Board (CARB) Ex. Order G-73, 40 Code of Federal Regulations (CFR) 52.220(c)(39)(ii)(B) - 11/09/78 43 Federal Register (FR) 52237; Current Rule Version = 07/25/77]
2. The equipment at this facility shall not be operated contrary to the conditions specified in the District Permit to Operate.
[Rule 203 - *Permit to Operate*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
3. The Air Pollution Control Officer (APCO) may impose written conditions on any permit.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
4. Commencing work or operation under a permit shall be deemed acceptance of all the conditions so specified.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
5. Posting of the Permit to Operate is required on or near the equipment or as otherwise approved by the APCO/District.
[Rule 206 - *Posting of Permit to Operate*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
6. Owner/Operator shall not willfully deface, alter, forge, or falsify any permit issued under District rules.
[Rule 207 - *Altering or Falsifying of Permit*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) and 52.220(c)(31)(vi)(C) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

7. Permits are not transferable.
[Rule 209 - *Transfer and Voiding of Permit*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
8. The APCO may require the Owner/Operator to provide and maintain such facilities as are necessary for sampling and testing.
[Rule 217 - *Provision for Sampling And Testing Facilities*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(31)(vi)(C) - 02/01/77 43 FR 52237; Current Rule Version = 07/25/77]
9. The equipment at this facility shall not require a District permit or be listed on the Title V permit if such equipment is listed in Rule 219 and meets the applicable criteria contained in Rule 219 (B). However, any exempted insignificant activities/equipment are still subject to all applicable facility-wide requirements.
[SIP Pending: Rule 219 - *Equipment Not Requiring a Written Permit* as Amended 12/21/94; Prior version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237]
10. The Owner/Operator of this facility shall obtain a Federal Operating Permit for operation of this facility.
[Rule 221 - *Federal Operating Permit Requirement*; Version in SIP = Current, 40 CFR 52.220(c)(216)(i)(A)(2) - 02/05/96 61 FR 4217]
11. Owner/Operator shall pay all applicable MDAQMD permit fees.
[Rule 301 - *Permit Fees*; Applicable Version = 10/23/94, Applicable via Title V Program interim approval 02/05/96 61 FR 4217]
12. Owner/Operator shall pay all applicable MDAQMD Title V Permit fees.
[Rule 312 - *Fees for Federal Operating Permits*; Applicable Version = 10/23/94, Applicable via Title V Program interim approval 02/05/96 61 FR 4217]
13. Stack and point source visible emissions from this facility, of any air contaminant (including smoke) into the atmosphere, shall not equal or exceed Ringelmann No. 1 for a period or periods aggregating more than three minutes in any one hour:
 - (a) While any unit is fired on Public Utilities Commission (PUC) grade natural gas, Periodic Monitoring for combustion equipment is not required to validate compliance with the Rule 401 Visible Emissions limit. However, the Owner/Operator shall comply with the recordkeeping requirements stipulated elsewhere in this permit regarding the logging of fuel type, amount, and suppliers' certification information.

- (b) While any unit is fired on diesel fuel, Periodic Monitoring, in addition to required recordkeeping, is required to validate compliance with Rule 401 Visible Emissions limit as indicated below:
- (i). Reciprocating engines equal or greater than 1000 horsepower, firing on only diesel with no restrictions on operation, a visible emissions inspection is required every three (3) months or during the next scheduled operating period if the unit ceases firing on diesel/distillate within the 3-month time frame.
 - (ii). Diesel Standby and emergency reciprocating engines using California low sulfur fuels require no additional monitoring for opacity.
 - (iii). Diesel/Distillate-Fueled Boilers firing on California low sulfur fuels require a visible emissions inspection after every 1 million gallons diesel combusted, to be counted cumulatively over a 5-year period.
 - (iv). On any of the above, if a visible emissions inspection documents opacity, an U.S. Environmental Protection Agency (EPA) Method 9 “Visible Emissions Evaluation” shall be completed within 3 working days, or during the next scheduled operating period if the unit ceases firing on diesel/distillate within the 3 working day time frame.

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

[Rule 401 - *Visible Emissions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]

[40 CFR 70.6 (a)(3)(i)(B) - *Periodic Monitoring Requirements*]

14. Owner/Operator is limited to use of the following quality fuels for fuel types specified elsewhere in this permit: PUC quality natural gas fuel - sulfur compounds shall not exceed 800 parts per million (ppm) calculated as hydrogen sulfide at standard conditions; diesel fuel - sulfur content shall not exceed 0.5 percent by weight. Compliance with Rule 431 fuel sulfur limits is assumed for PUC quality natural gas fuel and CARB certified diesel fuel. Records shall be kept on-site and available for review by District, state, or federal personnel at any time. The sulfur content of non-CARB certified diesel fuel shall be determined by use of American Society for Testing and Materials (ASTM) method D 2622-82 or ASTM method D 2880-71, or equivalent.

[40 CFR 70.6 (a)(3)(i)(B) - *Periodic Monitoring Requirements*]

[Rule 431 - *Sulfur Content of Fuels*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 09/08/78 - 43 FR 40011; Current Rule Version = 07/25/77]

15. Emissions of fugitive dust from any transport, handling, construction, or storage activity at this facility shall not be visible in the atmosphere beyond the property line of the facility.

[Rule 403 - *Fugitive Dust*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]

16. Owner/Operator shall comply with the applicable requirements of Rule 403.2 unless an “Alternative PM₁₀ Control Plan” (ACP) pursuant to Rule 403.2(G) has been approved.

District/State Only

[SIP Pending: Rule 403.2 - *Fugitive Dust Control for the Mojave Desert Planning Area* as amended 07/31/95 and submitted 10/13/95]

17. Owner/Operator shall not discharge into the atmosphere from this facility, particulate matter (PM) except liquid sulfur compounds, in excess of the concentration at standard conditions, shown in Rule 404, Table 404 (a).

- (a) Where the volume discharged is between figures listed in the table the exact concentration permitted to be discharged shall be determined by linear interpolation.
- (b) This condition shall not apply to emissions resulting from the combustion of liquid or gaseous fuels in steam generators or gas turbines.
- (c) For the purposes of this condition, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.

[Rule 404 - *Particulate Matter Concentration*; Version in SIP = Current, 40 CFR 52.220(c)(42)(xiii)(A) - 12/21/78 43 FR 52489]

18. Owner/Operator shall not discharge into the atmosphere from this facility, solid PM including lead and lead compounds in excess of the rate shown in Rule 405, Table 405(a).

- (a) Where the process weight per hour is between figures listed in the table, the exact weight of permitted discharge shall be determined by linear interpolation.
- (b) For the purposes of this condition, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.

[Rule 405 - *Solid Particulate Matter, Weight*; Version in SIP = Current, 40 CFR 52.220(c)(42)(xiii)(A) - 12/21/78 43 FR 52489]

19. Owner/Operator shall not discharge into the atmosphere from this facility, from any single source of emissions whatsoever, sulfur compounds, which would exist as a liquid or gas at standard conditions, calculated as sulfur dioxide (SO₂), greater than or equal to 500 ppm by volume.

[Rule 406 - *Specific Contaminants*; Version in SIP = 07/25/77, 40 CFR 52.220(c)(42)(xiii)(A) - 12/21/78 43 FR 52489, Subpart (a) only; Current Rule Version = 02/20/79]

20. Owner/Operator shall not discharge into the atmosphere from this facility, carbon monoxide (CO) exceeding 2000 ppm measured on a dry basis, averaged over a minimum of 15 consecutive minutes.

- (a) The provisions of this condition shall not apply to emissions from internal

combustion engines.

[Rule 407 - *Liquid and Gaseous Air Contaminants*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(C) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]

21. Owner/Operator shall not build, erect, install, or use any equipment at this facility, the use of which, without resulting in a reduction in the total release of air contaminants to the atmosphere, reduces or conceals an emission that would otherwise constitute a violation of Chapter 3 (commencing with Section 41700) of Part 4, of Division 26 of the Health and Safety Code or of District Rules.
 - (a) This condition shall not apply to cases in which the only violation involved is of Section 41700 of the Health and Safety Code, or of District Rule 402.
[Rule 408 - *Circumvention*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(C) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]
22. Owner/Operator shall not discharge into the atmosphere from this facility from the burning of fuel, combustion contaminants exceeding 0.23 gram per cubic meter (0.1 grain per cubic foot) of gas calculated to 12 percent of carbon dioxide (CO₂) at standard conditions averaged over a minimum of 25 consecutive minutes.
[Rule 409 - *Combustion Contaminants*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(C) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]
Reference Section III A(1)
23. APCO, at his/her discretion, may refrain from enforcement action against an Owner/Operator of any equipment that has violated a technology-based emission limitation, including but not limited to conditions contained in any permit issued by the District establishing such emission limitation, provided that a Breakdown has occurred and:
 - (a) Any breakdown that results in emissions exceeding a technology-based emission limitation is reported to the District within one hour of such breakdown or within one hour of the time a person knew or reasonably should have known of the occurrence of such breakdown; and
 - (b) An estimate of the repair time is provided to the District as soon as possible after the report of the breakdown; and
 - (c) All reasonable steps are immediately taken to minimize the levels of emissions and to correct the condition leading to the excess emissions.
 - (d) The equipment is operated only until the end of a cycle or twenty-four (24) hours, whichever is sooner, at which time it shall be shut down for repairs unless a petition for an emergency variance has been filed with the clerk of the Hearing Board in accordance with Regulation V.

- (e) If the breakdown occurs outside normal District working hours, the intent to file an emergency variance shall be transmitted to the District in a form and manner prescribed by the APCO.

District/State Only

[SIP Pending: Rule 430 - *Breakdown Provisions* as amended 12/21/94 and submitted 02/24/95]

24.

Owner/operator's *Usage of Solvents* at this facility shall comply with all applicable requirements of Rule 442 including the VOC and non-VOC organic solvent limits specified in Rule 442 (C)(1), as listed below

Owner/operator shall not discharge VOCs into the atmosphere from all VOC containing materials, Emissions Units, equipment or processes subject to this rule, in excess of 540 kilograms (1,190 pounds) per month per Facility.

Owner/operator shall not discharge into the atmosphere a non-VOC organic solvent in excess of 272 kilograms (600 pounds) per day as calculated on a thirty (30) day rolling average. For purposes of this limit, discharge shall include a drying period of 12 hours following the application of such non-VOC solvents.

[SIP: Rule 442 – *Usage of Solvents*, Approved 2/27/06, 72 FR 52971, 40 CFR 52.220 (c)(347)(i)(C); Approved 6/9/82, 47 FR 25013, 40 CFR 52.220(c)(51)(xii)(B); Approved 9/8/78, 43 FR 40011, 40 CFR 52.220(c)(39)(ii)(C)]

25.

Owner/Operator shall not set open outdoor fires unless in compliance with Rule 444. Outdoor fires burned according to an existing District permit are not considered “open outdoor fires” for the purposes of Rule 444 (reference Rule 444(B)(10)).

[Rule 444 – *Open Outdoor Fires*, Version in SIP = Current, 40 CFR 2.220(c)(42)(xiii)(A) and 40 CFR 52.273 (6)(12)(i)]

26.

Owner/Operator of this facility shall comply with the Organic Solvent Degreasing Operations requirements of Rule 1104 when engaged in wipe cleaning, cold solvent cleaning, and/or vapor cleaning (degreasing) operations for metal/non-metal parts/products. These requirements are listed as follows:

- (a) All degreasers shall be equipped with a cover, which reduces solvent evaporation and minimizes disturbing the vapor zone.
- (b) A permanent, conspicuous label summarizing the applicable operating requirements contained in Rule 1104. In lieu of a label, operating instructions may be posted near the degreaser where the operators can access the proper operating requirements of this rule.

- (c) Cold Solvent Degreasers - Freeboard Requirements:
 - (i) Cold solvent degreasers using only low volatility solvents, which are not agitated, shall operate with a freeboard height of not less than 6 inches.
 - (ii) *Cold solvent degreasers using only low volatility solvents may operate with a freeboard ratio equal to or greater than 0.50 when the cold solvent degreaser has a cover, which remains closed during the cleaning operation.*
 - (iii) Any cold solvent degreasers using solvent which is agitated, or heated above 50°C (120°F) shall operate with a freeboard ratio equal to or greater than 0.75.
 - (iv) A water cover may be used as an acceptable control method to meet the freeboard requirements, when the solvent is insoluble in water and has a specific gravity greater than one.
- (d) Cold Solvent Degreasers - Cover Requirements:
 - (i) Cold solvent degreasers using high volatility solvent shall have a cover that is a sliding, rolling or guillotine (bi-parting) type, which is designed to easily open and close without disturbing the vapor zone.
- (e) Cold Solvent Degreasers - Solvent Level Identification:
 - (i) A permanent, conspicuous mark locating the maximum allowable solvent level conforming to the applicable freeboard requirements.
- (f) All Degreasers shall comply with the following operating requirements:
 - (i) Any solvent cleaning equipment and any emission control device shall be operated and maintained in strict accord with the recommendations of the manufacturer.
 - (ii) Degreasers shall not be operating with any detectable solvent leaks.
 - (iii) All solvent, including waste solvent and waste solvent residues, shall be stored in closed containers at all times. All containers for any solvent(s) shall have a label indicating the name of the solvent/material they contain.
 - (iv) Waste solvent and any residues shall be disposed of by one of the following methods: a commercial waste solvent reclamation service licensed by the State of California; **or** a federally or state licensed facility to treat, store or dispose of such waste; **or** the originating facility may recycle the waste solvent and materials in conformance with requirements of Section 25143.2 of the California Health and Safety Code.
 - (v) Degreasers shall be covered to prevent fugitive leaks of vapors, except when processing work or to perform maintenance.
 - (vi) Solvent carry-out shall be minimized by the following methods:
 - (a) Rack workload arranged to promote complete drainage
 - (b) Limit the vertical speed of the power hoist to 3.3 meters per minute (11 ft/min) or less when such a hoist is used.
 - (c) Retain the workload inside of the vapor zone until condensation

- ceases.
- (d) Tip out any pools of solvent remaining on the cleaned parts before removing them from the degreaser if the degreasers are operated manually.
 - (e) Do not remove parts from the degreaser until the parts are visually dry and not dripping/leaking solvent. (This does not apply to an emulsion cleaner workload that is rinsed with water within the degreaser immediately after cleaning.)
 - (vii) The cleaning of porous or absorbent materials such as cloth, leather, wood or rope is prohibited.
 - (viii) Except for sealed chamber degreasers, all solvent agitation shall be by either pump recirculation, a mixer, or ultrasonics.
 - (ix) The solvent spray system shall be used in a manner such that liquid solvent does not splash outside of the container. The solvent spray shall be a continuous stream, not atomized or shower type, unless, the spray is conducted in a totally enclosed space, separated from the environment.
 - (x) For those degreasers equipped with a water separator, no solvent shall be visually detectable in the water in the separator.
 - (xi) Wipe cleaning materials containing solvent shall be kept in closed containers at all times, except during use.
 - (xii) A degreaser shall be located so as to minimize drafts being directed across the cleaning equipment, the exposed solvent surface, or the top surface of the vapor blanket.
 - (xiii) A method for draining cleaned material, such as a drying rack suspended above the solvent and within the freeboard area, shall be used so that the drained solvent is returned to the degreaser or container.
- (g) Rule 442 Applicability: Any solvent using operation or facility which is not subject to the source-specific Rule 1104 shall comply with the provisions of Rule 442. Any solvent using operation or facility which is exempt from all or a portion of the volatile organic compound (VOC) limits, equipment limits or the operational limits of Rule 1104 shall be subject to the applicable provisions of Rule 442.
- (h) Solvent Usage Records. Owner/Operator subject to Rule 1104 or claiming any exemption under Rule 1104, Section (E), shall comply with the following requirements:
- (1) Maintain and have available during an inspection, a current list of solvents in use at the facility which provides all of the data necessary to evaluate compliance, including the following information separately for each degreaser, as applicable:
 - (i) product name(s) used in the degreaser, and
 - (ii) the mix ratio of solvent compounds mixtures of solvents are used,

- and
- (iii) VOC content of solvent or mixture of compounds as used, and
 - (iv) the total volume of the solvent(s) used for the facility, on a monthly basis, and
 - (v) the name and total volume applied of wipe cleaning solvent(s) used, on a monthly basis.
- (2) Additionally, for any degreaser utilizing an add-on emission control device/system as a means of complying with provisions of Rule 1104 shall, on a monthly basis, maintain records of key system operating and maintenance data. Such data are recorded for the purpose of demonstrating continuous compliance during periods of emission producing activities. The data shall be recorded in a manner as prescribed by the District.
- (3) Documentation shall be maintained on site of the disposal or on-site recycling of any waste solvent or residues.
- (4) Records shall be retained (at facility) and available for inspection by District, state or federal personnel for the previous 5-year period as required by this Title V / Federal Operating Permit (Reference Rule 1203(D)(1)(d)(ii)).

[Rule 1104 - *Organic Solvent Degreasing Operations*; Version in SIP = Current, 40 CFR 52.220(c)(207)(i)(D)(2) - 04/30/96 61 FR 18962, effective 11/30/94]

27.

Table 1

VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS

Limits are expressed in grams of VOC per liter^a of coating thinned to the manufacturer's maximum recommendation, excluding the volume of any water, exempt compounds, or colorant added to tint bases. "Manufacturer's maximum recommendation" means the maximum recommendation for thinning that is indicated on the label or lid of the coating container.

Coating Category	Effective, 02/24/2003	Effective, 01/01/2013
Primary Coatings		
Flat Coatings	100	50
Nonflat Coatings	150	100
Nonflat-High Gloss Coatings	250	150
Specialty Coatings		
Aluminum Roof Coatings	n/a	400
Basement Specialty Coatings	n/a	400
Bituminous Roof Coatings	300	50
Bituminous Roof Primers	350	350
Bond Breakers	350	350
Concrete Curing Compounds	350	350
Concrete/Masonry Sealers	n/a	100
Driveway Sealers	n/a	50
Dry Fog Coatings	400	150
Faux Finishing Coatings	350	350
Fire Resistive Coatings	350	350
Floor Coatings	250	100
Form-Release Compounds	250	250
Graphic Arts Coatings (Sign Paints)	500	500
High Temperature Coatings	420	420
Industrial Maintenance Coatings	250	250
Low Solids Coatings	120 _a	120 _a
Magnesite Cement Coatings	450	450
Mastic Texture Coatings	300	100
Metallic Pigmented Coatings	500	500
Multi-Color Coatings	250	250
Pre-Treatment Wash Primers	420	420
Primers, Sealers, and Undercoaters	200	100
Reactive Penetrating Sealers	n/a	350
Recycled Coatings	250	250
Roof Coatings	250	50
Rust Preventative Coatings	400	250
Shellacs:		
Clear	730	730
Opaque	550	550
Specialty Primers, Sealers, and Undercoaters	350	100
Stains	250	250
Stone Consolidants	n/a	450
Swimming Pool Coatings	340	340
Traffic Marking Coatings	150	100
Tub and Tile Refinish Coatings	n/a	420
Waterproofing Membranes	n/a	250
Wood Coatings	n/a	275
Wood Preservatives	350	350
Zinc-Rich Primers	n/a	340
a: Limit is expressed as VOC Actual (G)(1)(a)(ii)		

[Rule 1113 - *Architectural Coatings*; **SIP**: Submitted as amended 04/23/12, Approved on 01/03/2014, 79 FR 365; Submitted as amended 02/24/03, Approved on 04/01/03, 69 FR 34;

Submitted as amended 11/02/92 on 1/11/93; Approved: 6/9/82, 47 FR 25013, 40 CFR 52.220(c)(51)(xii)(B)]

28. Owner/Operator’s use of *Wood Products Coatings* at this facility shall comply with the applicable requirements of Rule 1114, including the VOC limits specified in Rule 1114, part C, Table of Standards, as listed below:

(1) VOC Content of Coatings & Adhesives

(a) Any Owners and/or Operators of Wood Products Coating Application Operations shall not apply any Coating or Adhesive to a Wood Product which has a VOC Content, including any VOC-containing material added to the original Coating supplied by the manufacturer, which exceeds the applicable limit specified below, unless emissions to the atmosphere are controlled by air pollution abatement equipment with an Overall Control Efficiency of at least 85 percent. Any Coating subject to this rule that meets either of the two VOC Content limit formats (grams per liter or pounds per gallon [lb/gal]) is in compliance with this subsection.

(i) LIMITS
Grams of VOC Per Liter of Coating,
Less Water and Less Exempt Compounds (VOC Content)

Coating	Current Limit g/L (lb/gal)	On and After 7/1/97		On and After 7/1/2005
		Column I or g/L (lb/gal)	Column II g/L (lb/gal)	g/L (lb/gal)
Clear Sealers	680 (5.7)	550 (4.6)	680 (5.7)	275 (2.3)
Clear Topcoat	680 (5.7)	550 (4.6)	275 (2.3)	275 (2.3)
Pigmented Primers, Sealers and Undercoats	600 (5.0)	550 (4.6)	600 (5.0)	275 (2.3)
Pigmented Topcoats	600 (5.0)	550 (4.6)	275 (2.3)	275 (2.3)

Effective July 1, 1997, a person or facility shall use Coatings on Wood Products that comply with either all VOC Content limits in Column I or all VOC Content limits in Column II. A person or facility that applies a Pigmented Primer, Sealer or Undercoat, but not a Clear Topcoat or Pigmented Topcoat, to a Wood Product shall be subject to column I for that product.

(ii) Notwithstanding the requirements of subsection (C)(1)(a)(i), a person or facility that applies a topcoat and a primer, sealer or

undercoat to a Shutter may, until July 1, 2005, choose to comply with the VOC Content limits specified below for that Shutter:

(b) **LIMITS**
Grams of VOC Per Liter of Coating,
Less Water and Less Exempt Compounds (VOC Content)

Coating	g/L (lb/gal)
Clear Sealers	275 (2.3)
Clear Topcoat	680 (5.7)
Pigmented Primers, Sealers & Undercoats	275 (2.3)
Pigmented Topcoats	600 (5.0)

(c) **LIMITS**
Grams of VOC Per Liter of Coating,
Less Water and Less Exempt Compounds (VOC Content)

Coating	Current Limit g/L (lb/gal)	On and After 7/1/97	On and After 7/1/2005
		g/L (lb/gal)	g/L (lb/gal)
Fillers	500 (4.2)	500 (4.2)	275 (2.3)
High-Solid Stains	700 (5.8)	550 (4.6)	350 (2.9)
Inks	500 (4.2)	500 (4.2)	500 (4.2)
Mold-Seal Coatings	750 (6.3)	750 (6.3)	750 (6.3)
Multi-Colored Coatings	685 (5.7)	685 (5.7)	275 (2.3)
Low-Solids Stains, Toners and Washcoats	800 (6.7)	480 (4.0)	120 (1.0)
Adhesives	250 (2.1)	250 (2.1)	250 (2.1)

[Rule 1114 - *Wood Products Coating Operations*; Version in SIP = Current, Approved: 08/18/98, 63 FR 44132, 40 CFR 52.220(c)(244)(i)(C); Approved 61 FR 18962, 04/30/96]

29. Owner/Operator's use of *Metal Parts and Products Coatings* at this facility shall comply with the applicable requirements of Rule 1115, including the VOC limits specified in

Rule 1115, as listed below:

Owner/Operator shall not apply to metal parts and products any coatings, including any VOC-containing materials added to the original coating supplied by the manufacturer, which contain VOC in excess of the limits specified below unless emissions to the atmosphere are controlled to an equivalent level by air pollution abatement equipment with a capture and control system Combined Efficiency of at least 85 percent:

LIMITS

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

<u>Coating</u>	<u>Air Dried</u>		<u>Baked</u>	
	g/L	(lb/gal)	g/L	(lb/gal)
General	420	(3.5)	360	(3.0)
Military Specification	420	(3.5)	360	(3.0)
Etching Filler	420	(3.5)	420	(3.5)
Solar-Absorbent	420	(3.5)	360	(3.0)
Heat-Resistant	420	(3.5)	360	(3.0)
High-Gloss	420	(3.5)	360	(3.0)
Extreme High-Gloss	420	(3.5)	360	(3.0)
Metallic	420	(3.5)	420	(3.5)
Extreme Performance	420	(3.5)	360	(3.0)
Prefabricated Architectural				
Component	420	(3.5)	275	(2.3)
Touch Up	420	(3.5)	360	(3.0)
Repair	420	(3.5)	360	(3.0)
Silicone-Release	420	(3.5)	420	(3.5)
High Performance				
Architectural	420	(3.5)	420	(3.5)
Camouflage	420	(3.5)	420	(3.5)
Vacuum-Metalizing	420	(3.5)	420	(3.5)
Mold-Seal	420	(3.5)	420	(3.5)
High-Temperature	420	(3.5)	420	(3.5)
Electric-Insulating Varnish	420	(3.5)	420	(3.5)
Pan-Backing	420	(3.5)	420	(3.5)
Pretreatment Wash Primer	420	(3.5)	420	(3.5)
Clear Coating	520	(4.3)	520	(4.3)

[Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]

30. Owner/Operator shall comply with all requirements of the District’s Title V Program, MDAQMD Rules 1200 through 1210 (Regulation XII - *Federal Operating Permits*). [Applicable via Title V Program interim approval 02/05/96 61 FR 4217]

B. FACILITY-WIDE MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS:

1. Any data and records generated and/or kept pursuant to the requirements in this federal operating permit (Title V Permit) shall be kept current and on site for a minimum of five (5) years from the date generated. Any records, data, or logs shall be supplied to District, state, or federal personnel upon request.
[40 CFR 70.6(a)(3)(ii)(B); Rule 1203(D)(1)(d)(ii)]
2. Any Compliance/Performance testing required by this Federal Operating Permit shall follow the administrative procedures contained in the District's Compliance Test Procedural Manual. Any required annual Compliance and/or Performance Testing shall be accomplished by obtaining advance written approval from the District pursuant to the District's Compliance Test Procedural Manual. All emission determinations shall be made as stipulated in the Written Test Protocol accepted by the District. When proposed testing involves the same procedures followed in prior District approved testing, then the previously approved Written Test Protocol may be used with District concurrence.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
3. Owner/Operator of permit units subject to Comprehensive Emissions Inventory Report / Annual Emissions Determinations for District, state, and federal required Emission Inventories shall monitor and record the following for each unit:
 - (a) The cumulative annual usage of each fuel type. The cumulative annual usage of each fuel type shall be monitored from utility service meters, purchase or tank fill records.
 - (b) Fuel suppliers’ fuel analysis certification/guarantee including fuel sulfur content shall be kept on site and available for inspection by District, state or federal personnel upon request. The sulfur content of diesel fuel shall be determined by use of ASTM method D2622-82, or (ASTM method D 2880-71, or equivalent). Vendor data meeting this requirement are sufficient.
[40 CFR 70.6(a)(3)(B) – *Periodic Monitoring Requirements*]
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

[Federal Clean Air Act: §110(a)(2)(F, K & J); §112; §172(c)(3); §182(a)(3)(A & B); §187(a)(5); § 301(a)] and in California Clean Air Act, Health and Safety Code §§39607 and §§44300 et seq.]

- 4 (a) Owner/Operator shall submit Compliance Certifications as prescribed by Rule 1203(F)(1) and Rule 1208, in a format approved by MDAQMD. Compliance Certifications by a Responsible Official shall certify the truth, accuracy and completeness of the document submitted and contain a statement to the effect that the certification is based upon information and belief, formed after a reasonable inquiry; the statements and information in the document are true, accurate, and complete.
[40 CFR 70.6(c)(5)(i); Rule 1208; Rule 1203(D)(1)(vii-x)]
 - (b) Owner/Operator shall include in any Compliance Certification the methods used for monitoring such compliance.
[40 CFR 70.6(c)(5)(ii); Rule 1203(D)(1)(g)(viii)]
 - (c) Owner/Operator shall comply with any additional certification requirements as specified in 42 United States Code (U.S.C.) §7414(a)(3), Recordkeeping, Inspections, Monitoring and Entry (Federal Clean Air Act §114(a)(3)) and 42 U.S.C. §7661c(b), Permit Requirements and Conditions (Federal Clean Air Act §503(b)), or in regulations promulgated thereunder.
[Rule 1203 (D)(1)(g)(x)]
 - (d) Owner/Operator shall submit a Compliance Certification Report to the APCO/District on an annual basis pursuant to District Rule 1203. The Compliance Certification Report shall cover the 12 month period from October 16th to October 15th, and be postmarked no later than 30 days after the end of the reporting period. Each report shall be certified to be true, accurate, and complete by “The Responsible Official” and a copy of this annual report shall also be contemporaneously submitted to the EPA Region IX Administrator.
[40 CFR 72.90.a and Rule 1203 (D)(1)(g)(v - x)]
5. Owner/Operator shall submit, on a semi-annual basis, a Monitoring Report to the APCO/District, with a copy to the EPA Region IX Administrator. Each Monitoring Report shall cover the periods from October 16th to April 14th and from April 15th to October 15th, and be postmarked no later than 30 days after the end of the reporting period. This Monitoring Report shall be certified to be true, accurate, and complete by “The Responsible Official” and shall include the following information and/or data:
 - (a) Summary of deviations from any federally-enforceable requirement in this permit.
 - (b) Summary of all emissions monitoring and analysis methods required by any Applicable Requirement / federally - enforceable requirement.
 - (c) Summary of all periodic monitoring, testing or record keeping (including test methods sufficient to yield reliable data) to determine compliance with any Applicable Requirement / federally - enforceable requirement that does not directly

require such monitoring.

An alternate Monitoring Report format may be used upon prior approval by MDAQMD.
[Rule 1203(D)(1)(e)(i)]

6. Owner/Operator shall promptly report all deviations from Federal Operating Permit requirements including, but not limited to, any emissions in excess of permit conditions, deviations attributable to breakdown conditions, and any other deviations from permit conditions. Such reports shall include the probable cause of the deviation and any corrective action or preventative measures taken as a result of the deviation. [Rule 1203(D)(1)(e)(ii) and Rule 430(C)]

Prompt reporting shall be determined as follows:

- (a) For deviations involving emissions of air contaminants in excess of permit conditions including but not limited to those caused by a breakdown, prompt reporting shall be within one hour of the occurrence of the excess emission or within one hour of the time a person knew or reasonably should have known of the excess emission. Documentation and other relevant evidence regarding the excess emission shall be submitted to the District within sixty (60) days of the date the excess emission was reported to the District. [SIP Pending: Rule 430 - Breakdown Provisions as amended 12/21/94 and submitted 2/24/95]
- (b) For other deviations from permit conditions not involving excess emissions of air contaminants shall be submitted to the District with any required monitoring reports at least every six (6) months. [Rule 1203(D)(1)(e)(i)]
7. If any facility unit(s) should be determined not to be in compliance with any federally-enforceable requirement during the 5-year permit term, then Owner/Operator shall obtain a *Schedule of Compliance* approved by the District Hearing Board pursuant to the requirements of MDAQMD Regulation 5 (Rules 501 - 518). In addition, Owner/Operator shall submit a *Progress Report* on the implementation of the *Schedule of Compliance*. The *Schedule of Compliance* shall contain the information outlined in (b), below. The *Progress Report* shall contain the information outlined in (c), below. The *Schedule of Compliance* shall become a part of this Federal Operating Permit by administrative incorporation. The *Progress Report* and *Schedule of Compliance* shall comply with Rule 1201(I)(3)(iii) and shall include:
- (a) A narrative description of how the facility will achieve compliance with such requirements; and
- (b) A *Schedule of Compliance* which contains a list of remedial measures to be taken for the facility to come into compliance with such requirements, an enforceable sequence of actions, with milestones, leading to compliance with such requirements and provisions for the submission of *Progress Reports* at least every six (6) months. The *Schedule of Compliance* shall include any judicial order,

administrative order, and/or increments of progress or any other schedule as issued by any appropriate judicial or administrative body or by the District Hearing Board pursuant to the provisions of Health & Safety Code §42350 et seq.; and

- (c) *Progress Reports* submitted under the provisions of a *Schedule of Compliance* shall include: Dates for achieving the activities, milestone, or compliance required in the schedule of compliance; and dates when such activities, milestones or compliance were achieved; and an explanation of why any dates in the schedule of compliance were not or will not be met; and any preventive or corrective measures adopted due to the failure to meet dates in the schedule of compliance. [Rule 1201 (I)(3)(iii); Rule 1203 (D)(1)(e)(ii); Rule 1203 (D)(1)(g)(v)]

C. FACILITY-WIDE COMPLIANCE CONDITIONS:

1. Owner/Operator shall allow an authorized representative of the MDAQMD to enter upon the permit holder's premises at reasonable times, with or without notice. [40 CFR 70.6(c)(2)(i); Rule 1203(D)(1)(g)(i)]
2. Owner/Operator shall allow an authorized representative of the MDAQMD to have access to and copy any records that must be kept under condition(s) of this Federal Operating Permit. [40 CFR 70.6(c)(2)(ii); Rule 1203(D)(1)(g)(ii)]
3. Owner/Operator shall allow an authorized representative of the MDAQMD to inspect any equipment, practice or operation contained in or required under this Federal Operating Permit. [40 CFR 70.6(c)(2)(iii); Rule 1203(D)(1)(g)(iii)]
4. Owner/Operator shall allow an authorized representative of the MDAQMD to sample and/or otherwise monitor substances or parameters for the purpose of assuring compliance with this Federal Operating Permit or with any Applicable Requirement. [40 CFR 70.6(c)(2)(iv); Rule 1203(D)(1)(g)(iv)]
5. Owner/Operator shall remain in compliance with all Applicable Requirements / federally enforceable requirements by complying with all compliance, monitoring, record-keeping, reporting, testing, and other operational conditions contained in this Federal Operating Permit. Any noncompliance constitutes a violation of the Federal Clean Air Act and is grounds for enforcement action; the termination, revocation and re-issuance, or

modification of this Federal Operating Permit; and/or grounds for denial of a renewal application.

[1203 (D)(1)(f)(ii)]

6. Owner/Operator shall comply in a timely manner with all applicable requirements / federally - enforceable requirements that become effective during the term of this permit. [Rule 1201 (I)(2); Rule 1203(D)(1)(g)(v)]
7. Owner/Operator shall insure that all applicable subject processes comply with the provisions of 40 CFR 61, *National Emission Standards for Hazardous Air Pollutants*, subpart A, *General Provisions*, and subpart M, *Asbestos*. [40 CFR 61, subparts A and M]
8. Owner/Operator shall notify APCO/District at least 10 working days before any applicable asbestos stripping or removal work is to be performed as required by section 61.145.b of 40 CFR 61 subpart M, *National Emission Standard for Asbestos*. [40 CFR 61.145.b]
9. Owner/Operator shall notify the APCO/District, on an **annual** basis, postmarked by December 17 of the calendar year, of the predicted asbestos renovations for the following year as required by section 61.145.b of 40 CFR 61, subpart M [see cite for threshold triggering and applicability]. [40 CFR 61.145.b]
10. The permit holder shall submit an application for renewal of this Title V Permit at least six (6) months, but no earlier than eighteen (18) months, prior to the expiration date of this Federal operating permit (FOP). If an application for renewal has not been submitted and deemed complete in accordance with this deadline, the facility may not operate under the (previously valid) FOP after this FOP expiration date. If the permit renewal has not been issued by this FOP expiration date, but a timely application for renewal has been submitted and deemed complete in accordance with the above deadlines, the existing permit will continue in force until the District takes final action on the renewal application. [Rule 1202(B)(3)(b)(i); Rule 1202(E)(2)(a)]

PART III
EQUIPMENT SPECIFIC APPLICABLE REQUIREMENTS;
EMISSIONS LIMITATIONS; MONITORING, RECORDKEEPING,
REPORTING AND TESTING REQUIREMENTS; COMPLIANCE
CONDITIONS; COMPLIANCE PLANS

A. CONDITIONS APPLICABLE TO TWO NATURAL GAS FIRED HEATERS WHICH ARE PART OF THE SOLAR ELECTRIC GENERATING SYSTEMS (SEGS) CONSISTING OF:

- a. MDAQMD Permit Numbers B002013 and B002016, Kinetics Technology, HTF, natural gas fired heaters, each unit has a maximum heat input of 872 MMBTU/hr and consists of the following equipment:
- Four Vertical Tube Box Heaters, each with 32 Alzeta Pyrocore radiant burners.
 - Three Pumps; 3,000 hp each @ 1794 rpm
 - One Freeze Protection Pump; 100 bhp @ 1775 rpm
 - Continuous Emission Monitoring (CEM) equipment
- B002013 - SEGS VIII
- Two Forced Draft Blowers; one 300 bhp @ 1190 rpm, one 500 hp @ 1200 rpm
 - Two Induced Draft Fans; one 300 bhp @ 885 rpm, one 500 hp @ 1190 rpm
- B002016 - SEGS IX
- Two Forced Draft Blowers; two 300 bhp @ 1190 rpm
 - Two Induced Draft Fans; one 300 bhp @ 885 rpm

1. Owner/Operator shall comply with the following Criteria Emissions Limits for each of the SEGS VIII and IX Heaters:

NO_x - 81.2 lb/h (based on 67 ppmv), not to exceed 580lb/day

CO - 248 lb/h (based on 350 ppmv), not to exceed 550lb/day

PM₁₀ - 5.2 lb/h, not to exceed 83.2 lb/day

- a. The average hourly emission for NO_x and CO shall be reported per the approved monitoring plan. The average hourly rate shall be the arithmetic average of four or more data points equally spaced over each 1-hour period.
- b. Daily emissions shall be reported based on the hourly emissions reported above.
- c. All PM emissions from these heaters shall be assumed to be 100% PM₁₀.

[MDAQMD Permit Numbers B002013 and B002016, Condition 1: Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) -

11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

[Rule 407 - *Liquid and Gaseous Air Contaminants*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(C) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]

[Rule 1157 - *Boilers and Process Heaters*; Version in SIP = Current, 40 CFR 52.220(c)(207)(I)(D)(3) - 5/19/97 61 FR 56470, effective 11/1/96]

[40 CFR 60.42Da (PM Standard); 60.43Da (SO₂ Standard); 60.44Da (NO_x Standard)]

2. The total annual emissions for NO_x and CO when calculated on a 12-month rolling summary shall not exceed the following:
NO_x - 27.9 tons/year
CO - 26.5 tons/year

Compliance with this emission limit shall be determined by using CEMS data and calculating an arithmetic average of the previous 365 days (Day is defined as any 24-hour period beginning at midnight).

[MDAQMD Permit Numbers B002013 and B002016, Condition 2: Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

3. The daily emissions of NO_x and CO and as well as O₂ (a diluent gas) shall be monitored using a Continuous Emissions Monitoring System (CEMS) which shall be operating at all times in accordance with the District approval monitoring plan.
[MDAQMD Permit Numbers B002013 and B002016, Condition 3 & 4: 40 CFR 60.49Da ; Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
Reference Section II B(3)
4. The following are the acceptability testing requirements for the CEMS:
 - a For NO_x CEMS - Performance Specifications 2 of 40 CFR 60 Appendix B.
 - b For O₂ CEMS - Performance Specification 3 of 40 CFR 60 Appendix B
 - c For CO CEMS - Performance Specification 4 of 40 CFR Appendix B

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

[Rule 1157 - *Boilers and Process Heaters*; Version in SIP = Current, 40 CFR 52.220(c)(207)(I)(D)(3) - 5/19/97 61 FR 56470, effective 11/1/96; 40 CFR 60.49Da]
Reference Section II B(3)

5. Compliance tests shall be performed in accordance with the Districts Compliance Test Procedural Manual. The test report shall be submitted to the District within 45 days following completion of tests, and no later than six (6) weeks prior to the expiration date of the permit. The following compliance tests are required:
- a. Annual compliance test for NO_x (as NO₂ in ppmv at 3% O₂ & dry)
 - b. Annual compliance test for CO (in ppmv at 3% O₂ & dry)
 - c. PM₁₀ emissions rate test is required once every five (5) years, commencing in 1997. Additional Compliance testing may be required at the discretion of the District. Actual Emission limits shall not exceed the levels indicated above. Particulate Matter emission concentrations and emission rate determinations shall be based upon the average of three (3) one-hour runs. Compliance with the Particulate Matter limits shall be demonstrated using USEPA Method 5. Determination of percent by volume stack-gas oxygen shall be determined using USEPA Method 3A or USEPA Method 3. Alternative test methods may be used upon obtaining the approval of the Air Pollution Control Officer, CARB and USEPA.

[MDAQMD Permit Numbers B002013 and B002016, Condition 5: 40 CFR 60.46Da; Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

[**SIP Pending:** Rule 475 - *Electric Power Generating Equipment* as adopted 08/25/97 and submitted 03/10/98]

[Rule 1157 - *Boilers and Process Heaters*; Version in SIP = Current, 40 CFR 52.220(c)(207)(I)(D)(3) - 5/19/97 61 FR 56470, effective 11/1/96]

5. Daily log shall be maintained which include but are not limited to the following:
- a. Hours of operation/day
 - b. Dates of routine maintenance
 - c. Dates of major repairs and/or replacements
 - d. Natural gas use and Higher Heating Value (HHV)
 - e. Amount of Heat Transfer Fluid (HTF) added to system.

[MDAQMD Permit Numbers B002013 and B002016, Condition 6: Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

[Rule 1157 - *Boilers and Process Heaters*; Version in SIP = Current, 40 CFR 52.220(c)(207)(I)(D)(3) - 5/19/97 61 FR 56470, effective 11/1/96]

6. Daily logs shall be maintained which included, but is not limited to, the following:

- a Hours of operation/day
- b Dates of routine maintenance
- c Dates of major repairs and/or replacements
- d Natural gas use
- e Amount of HTF added to system

[MDAQMD Permit Numbers B002013 and B002016, Condition 7: Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

- 8. Quarterly reports shall be provided to the District Compliance Supervisor in accordance with the District approved monitoring plan. All quarterly reports shall be postmarked by the 30th day following the end of each calendar quarter.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
- 9. This equipment is subject to and shall compliance with the Federal NSPS codified at 40 CFR Part 60, Subparts A (General Provisions) and Da (Standards of Performance for Electric Utility Steam Generating Units).

B. CONDITIONS APPLICABLE TO TWO COOLING TOWERS CONSISTING OF:

- a. MDAQMD Permit Numbers B003941 and B003943, Marley, six (6) cell counterflow model with a design drift rate of 0.0005 and a circulation rate of 56,400 gpm composed of the following equipment:
 - Six (6) Exhaust fans, rated at 150 hp each, operating at 1790 rpm
 - One (1) Circulation Pump, rated at 40 hp and 6,000 gpm, operating at 705 rpm
 - Four (4) Cooling Water Pumps, rated at 300 hp and 14,100 gpm each, operating at 705 rpm
 - One (1) Auxiliary Cooling Water Pump, rated at 40 hp, operating at 1775 rpm
 - Three (3) Cooling Water Makeup Pumps, rated at 20 hp each, operating at 1765 rpm
- 1. All equipment shall be maintained and operated in strict accord with recommendations of the manufacturer/supplier and/or engineering principles.
[MDAQMD Permit Numbers B003941 and B003943, Condition 1: Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
- 2. The Owner/Operator shall comply with District Rule 1503 relative to the “Hexavalent

Chromium Emissions from Cooling Towers”.

[MDAQMD Permit Numbers B003941 and B003943, Condition 2: Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

[Rule 1503 - *Chromium Emissions From Cooling Towers*; Not in SIP]

3. The drift rate shall not exceed 0.0005 percent and the maximum circulation rate shall be 56,400 gpm. The maximum emission rate of PM10 shall not exceed 2.8 lb/h, calculated using water circulation rate, drift rate, total dissolved solids, and PM10 fraction (as presented in FPL Energy letter dated 3/25/2003).
[MDAQMD Permit Numbers B003941 and B003943, Condition 3: Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
 4. Weekly tests of the Blowdown water quality shall be performed by the o/o in accordance with the standard test procedures. These weekly recordings, including mass emission rate, shall be logged. This log shall and be maintained current, on-site for a minimum of 5 years and provided to District personnel on request.
[MDAQMD Permit Numbers B003941 and B003943, Condition 4: Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
 5. This equipment does not require regularly scheduled emission compliance testing, however, emission compliance testing may be required at the discretion of the District.
[MDAQMD Permit Numbers B003941 and B003943, Condition 5: Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
 6. A maintenance procedure shall be established, including frequency, to ensure the integrity of the drift eliminators. Procedure shall be kept on-site and available to District personnel on request.
[MDAQMD Permit Numbers B003941 and B003943, Condition 6: Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
- C. CONDITIONS APPLICABLE TO TWO HEAT TRANSFER FLUID (HTF) Ullage SYSTEMS CONSISTING OF:
- One 30 bhp @ 3520 rpm, 15 gpm @ 160 psig, Ullage Vessel Pump
 - One 3 bhp @ 1750 rpm, Ullage Cooler Circulation Pump

- One 204,600 Btu/hr @ 180 psig & 560 degrees F, Ullage Cooler
- One 650,000 Btu/hr @ 180 psig & 560 degrees F, Ullage Cooler
- One 2,000 gallon @ 180 psig & 500 degrees F, Ullage Vessel
- One 2,000 gallon @ 15 psig & 250 degrees F, Ullage Vessel
- One 3,000 gallon @ 15 psig, Ullage Drain

1. All equipment shall be maintained and operated in strict accord with the recommendations of the manufacturer/supplier and/or engineering principles.
[MDAQMD Permit Numbers B003942 and B003944, Condition 1: Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
2. If current non-criteria substances become regulated as toxic or hazardous substances and are used in this equipment, the owner/operator shall submit to the District a plan demonstrating how compliance will be achieved and maintained with such regulations.
[MDAQMD Permit Numbers B003942 and B003944, Condition 2: Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

D. CONDITIONS APPLICABLE TO TWO EMERGENCY GENERATORS, EACH CONSISTING OF:

- a. MDAQMD Permit Numbers E002015 (SEGS VIII) and E002018 (SEGS IX), each consisting of a:

Caterpillar Diesel ICE, model SR-4, rated at 890 bhp @ 1800 rpm, used for emergency electrical power.

1. This equipment shall be installed, operated and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.
[MDAQMD Permit Numbers E002015 and E002018, Condition 1: Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
2. Engine may operate in response to notification of impending rotating outage if the area utility has ordered rotating outages in the area where the engine is located or expects to order such outages at a particular time, the engine is located in the area subject to the

rotating outage, the engine is operated no more than 30 minutes prior to the forecasted outage, and the engine is shut down immediately after the utility advises that the outage is no longer imminent or in effect.

[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements](for Periodic Monitoring Requirements; see Part II and Part III conditions)

[MDAQMD Permit Numbers E002015 and E002018, Condition 2: Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

3. This unit shall only be fired on ultra-low sulfur diesel fuel, whose sulfur concentration is less than or equal to 0.0015% (15 ppm) on a weight per weight basis per CARB Diesel or equivalent requirements.
[MDAQMD Permit Numbers E002015 and E002018, Condition 3: Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
4. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this unit to indicate elapsed engine operating time.
[MDAQMD Permit Numbers E002015 and E002018, Condition 4: Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
5. This unit shall be limited to use for emergency power, defined as in response to a fire or when commercially available power has been interrupted. In addition, this unit shall be operated no more than 20 hours per year for testing and maintenance, excluding compliance source testing. Time required for source testing will not be counted toward the 20 hour per year limit.
[MDAQMD Permit Numbers E002015 and E002018, Condition 5: Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
6. The owner/operator (o/o) shall maintain a operations log for this unit current and on-site, either at the engine location or at a on-site location, for a minimum of two (2) years, and for another year where it can be made available to the District staff within 5 working days from the District's request, and this log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the information specified below:
 - a. Date of each use and duration of each use (in hours);
 - b. Reason for use (testing & maintenance, emergency, required emission testing);

- c. Calendar year operation in terms of fuel consumption (in gallons) and total hours; and,
- d. Fuel sulfur concentration (the o/o may use the supplier's certification of sulfur content if it is maintained as part of this log).

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

7. This unit is subject to the requirements of the Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines (Title 17 CCR 93115). In the event of conflict between these conditions and the ATCM, the requirements of the ATCM shall govern.
[MDAQMD Permit Numbers E002015 and E002018, Condition 6: Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

E. CONDITIONS APPLICABLE TO THREE EMERGENCY DIESEL FIRE PUMPS, EACH CONSISTING OF:

- a. MDAQMD Permit Number E003940, each consisting of:

Caterpillar Diesel Engine, Model No. 3306, 267 bhp @ 2100 rpm, serial numbers 64209021, 64209027, 6209032.

1. This unit is subject to the requirements of the Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines (Title 17 CCR 93115). In the event of conflict between these conditions and the ATCM, the requirements of the ATCM shall govern.
[MDAQMD Permit Numbers E003940, Condition 1: Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

2. This equipment shall be installed, operated and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*](for *Periodic Monitoring Requirements*; see *Part II and Part III conditions*)
[MDAQMD Permit Numbers E003940, Condition 2: Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR

52237; Current Rule Version = 07/25/77]
Reference Section II A 18

3. Engine may operate in response to notification of impending rotating outage if the area utility has ordered rotating outages in the area where the engine is located or expects to order such outages at a particular time, the engine is located in the area subject to the rotating outage, the engine is operated no more than 30 minutes prior to the forecasted outage, and the engine is shut down immediately after the utility advises that the outage is no longer imminent or in effect.
[MDAQMD Permit Numbers E003940, Condition 3: Rule 204 - *Permit Conditions*;
Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
4. This unit shall only be fired on ultra-low sulfur diesel fuel, whose sulfur concentration is less than or equal to 0.0015% (15 ppm) on a weight per weight basis per CARB Diesel or equivalent requirements.
[MDAQMD Permit Numbers E003940, Condition 4: Rule 204 - *Permit Conditions*;
Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
5. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this unit to indicate elapsed engine operating time.
[MDAQMD Permit Numbers E003940, Condition 5: Rule 204 - *Permit Conditions*;
Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
6. This unit shall be limited to use for emergency power, defined as in response to a fire or when commercially available power has been interrupted. In addition, this unit shall be operated no more than 20 hours per year for testing and maintenance, excluding compliance source testing. Time required for source testing will not be counted toward the 20 hour per year limit.
[MDAQMD Permit Numbers E003940, Condition 6: Rule 204 - *Permit Conditions*;
Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
7. The hour limit of Condition #5 can be exceeded when the emergency fire pump assembly is driven directly by a stationary diesel fueled CI engine when operated per and in accord with the National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems," 1998 edition. {Title 17 CCR 93115(c)16}

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

8. The o/o shall maintain a operations log for this unit current and on-site, either at the engine location or at a on-site location, for a minimum of two (2) years, and for another year where it can be made available to the District staff within 5 working days from the District's request, and this log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the information specified below:
 - a. Date of each use and duration of each use (in hours);
 - b. Reason for use (testing & maintenance, emergency, required emission testing);
 - c. Calendar year operation in terms of fuel consumption (in gallons) and total hours; and,
 - d. Fuel sulfur concentration (the o/o may use the supplier's certification of sulfur content if it is maintained as part of this log).

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

F. CONDITIONS APPLICABLE TO EMERGENCY DIESEL COMPRESSOR
CONSISTING OF:

- a. District permit number E007525: John Deere, Diesel, Compressor, Model No. 6076AF-00, 6 cylinders, Turbo Charged, 250bhp @2100rpm, Serial No. RG6076A115700

1. This equipment shall be installed, operated and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.

[MDAQMD Permit Numbers E007525, Condition 1: Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

2. Engine may operate in response to notification of impending rotating outage if the area utility has ordered rotating outages in the area where the engine is located or expects to order such outages at a particular time, the engine is located in the area subject to the rotating outage, the engine is operated no more than 30 minutes prior to the forecasted outage, and the engine is shut down immediately after the utility advises that the outage is no longer imminent or in effect.

[MDAQMD Permit Numbers E007525, Condition 2: Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current

Rule Version = 07/25/77]

3. This unit shall only be fired on ultra-low sulfur diesel fuel, whose sulfur concentration is less than or equal to 0.0015% (15 ppm) on a weight per weight basis per CARB Diesel or equivalent requirements.

[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*](for *Periodic Monitoring Requirements*; see *Part II and Part III conditions*)

[MDAQMD Permit Numbers E003940, Condition 2: Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77] Reference Section II A 18

4. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this unit to indicate elapsed engine operating time.

[MDAQMD Permit Numbers E007525, Condition 4: Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

5. This unit shall be limited to use for emergency power, defined as in response to a fire or when commercially available power has been interrupted. In addition, this unit shall be operated no more than 20 hours per year for testing and maintenance, excluding compliance source testing. Time required for source testing will not be counted toward the 20 hour per year limit.

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

6. The owner/operator (o/o) shall maintain a operations log for this unit current and on-site, either at the engine location or at a on-site location, for a minimum of two (2) years, and for another year where it can be made available to the District staff within 5 working days from the District's request, and this log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the information specified below:

- a. Date of each use and duration of each use (in hours);
- b. Reason for use (testing & maintenance, emergency, required emission testing);
- c. Calendar year operation in terms of fuel consumption (in gallons) and total hours; and,
- d. Fuel sulfur concentration (the o/o may use the supplier's certification of sulfur content if it is maintained as part of this log).

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

7. This unit is subject to the requirements of the Airborne Toxic Control Measure (ATCM)

for Stationary Compression Ignition Engines (Title17 CCR 93115). In the event of conflict between these conditions and the ATCM, the requirements of the ATCM shall govern.

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

G. CONDITIONS APPLICABLE TO NON-RETAIL GASOLINE FACILITY
CONSISTING OF:

- a. One 2000 gallon, 87 octane, unleaded gasoline above ground storage tank, one 1000 gallon Diesel above ground storage tank, one gasoline dispensing nozzle, and one Diesel Dispensing Nozzle. Gasoline System includes Phase II Vapor Recovery.
1. The toll-free telephone number that must be posted is 1-800-635-4617.
[MDAQMD Permit Numbers N002984, Condition 1: Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
2. The owner/operator (o/o) shall maintain a log of all inspections, repairs, and maintenance on equipment subject to Rule 461. Such logs or records shall be maintained at the facility for at least two (2) years and shall be available to the District upon request.
[MDAQMD Permit Numbers N002984, Condition 2: Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
[Rule 461 - *Gasoline Transfer and Dispensing*; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]
[Rule 462 - *Organic Liquid Loading*; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]
3. Any modifications, changes to the piping, or control fittings of the vapor recovery system, requires prior approval from the District.
[MDAQMD Permit Numbers N002984, Condition 2: Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
4. The vapor vent pipes are to be equipped with pressure relief valves.
[Rule 461 - *Gasoline Transfer and Dispensing*; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]
5. The owner or operator shall conduct and pass the following tests annually using the latest

adopted version of the following test procedures:

- a. Pressure Decay Tests per CARB test method TP-201.3B.
- b. Liquid Removal Test (if applicable) per TP-201.6
- c. Emergency vents and manways shall be leak free when tested at the operating pressure of the tank in accordance with CARB test methods, as specified in Title 17, California Code of Regulations.

The District shall be notified a minimum of 10 days prior to performing the required tests with the final results submitted to the District within 30 days of completion of the tests.

Passing test reports shall be received by the District not later than six (6) weeks prior to the expiration date of this permit.

[Rule 461 - *Gasoline Transfer and Dispensing*; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]

6. The annual throughput of gasoline shall not exceed 500,000 gallons per year. Throughput Records shall be kept on site and available to District personnel upon request. Before this annual throughput can be increased the facility may be required to submit to the District a site specific Health Risk Assessment in accord with a District approved plan. In addition public notice and/or comment period may be required.
[Rule 461 - *Gasoline Transfer and Dispensing*; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]
7. The o/o shall maintain and operate this equipment in compliance with CARB Executive Order G-70-131-A.
[Rule 461 - *Gasoline Transfer and Dispensing*; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]

H. CONDITIONS APPLICABLE TO THE ABRASIVE BLASTING SYSTEM;

MDAQMD Permit Number A008610, consisting of a Clemco Abrasive Blasting Machine, 300 pound capacity, Model 1648, Serial No. 10712, operating at a maximum pressure of 100 psig, capable of emitting 10.6 lbs PM-10/hr

1. Pursuant to Title 17 California Code of Regulations sections 92000-92530, abrasive blasting shall be conducted within a permanent building; outdoor blasting is permitted if the item blasted exceeds 8 feet in any dimension or situated at a permanent location.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

2. This abrasive blast system shall only be operated/maintained in strict accord with manufacturer's/supplier's recommendations and/or sound engineering principles.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
[Rule 401 - *Visible Emissions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 09/08/78 - 43 FR 40011; Current Rule Version = 07/25/77]
3. Owner/operator shall not discharge into the atmosphere a visible emission with a shade as dark or darker than Ringelmann 1, or with an opacity of 20% or greater, for a period aggregating more than three minutes in any one hour.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
4. This abrasive blast system shall only use those abrasives that have been certified by the California Air Resources Board (CARB) for dry unconfined usage, pursuant to CARB Executive Order (EO) G-02-006.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
5. Nozzle orifice diameter shall not exceed 5/16 inch, and operating pressure shall not exceed 100 psig.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
6. This facility, including the emissions from this Abrasive Blaster, shall not exceed 55 tpy of PM-10.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
7. The o/o shall maintain a log for this unit, which at a minimum contains the information specified below. This log shall be maintained current and on-site for a minimum of five (5) years and shall be provided to District personnel on request:
 - a. Date of device use;
 - b. Duration of use, in hours;
 - c. Annual hours of operation[Rule 404 - *Particulate Matter Concentration*; Version in SIP = Current, 40 CFR 52.220(c)(42)(xiii)(A) - 12/21/78 43 FR 52489]

PART IV STANDARD FEDERAL OPERATING PERMIT CONDITIONS

A. STANDARD CONDITIONS:

1. If any portion of this Federal Operating Permit is found to be invalid by the final decision of a court of competent jurisdiction the remaining portion(s) of this Federal Operating Permit shall not be affected thereby.
[40 CFR 70.6(a)(5); Rule 1203(D)(1)(f)(i)]
2. Owner/Operator shall comply with all condition(s) contained herein. Noncompliance with any condition(s) contained herein constitutes a violation of the Federal Clean Air Act and of MDAQMD Regulation XII and is grounds for enforcement action; termination, revocation and re-issuance, or modification of this Federal Operating Permit; and/or grounds for denial of a renewal of this Federal Operating Permit.
[40 CFR 70.6(a)(6)(i); Rule 1203(D)(1)(f)(ii)]
3. It shall not be a defense in an enforcement action brought for violation(s) of condition(s) contained in this Federal Operating Permit that it would have been necessary to halt or reduce activity to maintain compliance with those condition(s).
[40 CFR 70.6(a)(6)(ii); Rule 1203(D)(1)(f)(iii)]
4. This Federal Operating Permit may be modified, revoked, reopened or terminated for cause.
[40 CFR 70.6(a)(6)(iii); Rule 1203(D)(1)(f)(iv)]
5. The filing of an application for modification; a request for revocation and re-issuance; a request for termination; notifications of planned changes; or anticipated noncompliance with condition(s) does not stay the operation of any condition contained in this Federal Operating Permit.
[40 CFR 70.6(a)(6)(iii); Rule 1203(D)(1)(f)(v)]
6. The issuance of this Federal Operating Permit does not convey any property rights of any sort nor does it convey any exclusive privilege.
[40 CFR 70.6(a)(6)(iv); Rule 1203(D)(1)(f)(vi)]
7. Owner/Operator shall furnish to the MDAQMD, within a reasonable time as specified by the MDAQMD, any information that the MDAQMD may request in writing.
[40 CFR 70.6(a)(6)(v); Rule 1203(D)(1)(f)(vii)]

8. Owner/Operator shall furnish to District, state or federal personnel, upon request, copies of any records required to be kept pursuant to condition(s) of this Federal Operating Permit.
[40 CFR 70.6(a)(6)(v); Rule 1203(D)(1)(f)(viii)]
9. Any records required to be generated and/or kept by any portion of this Federal Operating Permit shall be retained by the facility Owner/Operator for at least five (5) years from the date the records were created.
[40 CFR 70.6(a)(3)(ii)(B); Rule 1203(D)(1)(d)(ii)]
10. Owner/Operator shall pay all applicable fees as specified in MDAQMD Regulation III, including those fees related to permits as set forth in Rules 301 and 312.
[40 CFR 70.6(a)(7); Rule 1203(D)(1)(f)(ix)]
11. Owner/Operator shall not be required to revise this permit for approved economic incentives, marketable permits, emissions trading or other similar programs provided for in this permit.
[40 CFR 70.6(a)(8); Rule 1203(D)(1)(f)(x)]
12. Compliance with condition(s) contained in this Federal Operating Permit shall be deemed compliance with the Applicable Requirement underlying such condition(s). The District clarifies that “only” Applicable Requirements listed & identified elsewhere in this Title V Permit are covered by this Permit Shield and does not extend to any unlisted/unidentified conditions pursuant to the requirements of 40 CFR 70.6(f)(1)(i).
[40 CFR 70.6(f)(1)(i); Rule 1203(G)(1)]
13. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to limit the emergency powers of USEPA as set forth in 42 U.S.C. §7603.
[40 CFR 70.6(f)(3)(i); Rule 1203(G)(3)(a)]
14. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to limit liability for violations, which occurred prior to the issuance of this Federal Operating Permit.
[40 CFR 70.6(f)(3)(ii); Rule 1203(G)(3)(b)]
15. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to alter any Applicable Requirement Contained in the Acid Rain Program.
[40 CFR 70.6(f)(3)(iii); Rule 1203(G)(3)(c)]
16. The Permit Shield set forth above, in condition 12 of Part IV, shall not be

construed to limit the ability of USEPA or the MDAQMD to obtain information pursuant to other provisions of law including but not limited to 42 U.S.C. §7414. [40 CFR 70.6(f)(3)(iv); Rule 1203(G)(3)(d)]

17. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to apply to emissions trading pursuant to provisions contained in an applicable State Implementation Plan.
[40 CFR 70.4(b)(12)(ii)(B); Rule 1203(G)(3)(e)]
18. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to apply to changes made which are not expressly allowed by this Federal Operating Permit.
[40 CFR 70.4(b)(14)(iii); Rule 1203(G)(3)(f)]
19. The Permit Shield set forth in Part IV, condition 12, shall not be construed to apply to changes made pursuant to the Significant Permit Modification provisions until such changes are included in this Federal Operating Permit.
[40 CFR 70.5(a)(1)(ii), 70.7(e)(2)(vi); Rule 1203 (G)(3)(g)]
20. If Owner/Operator performs maintenance on, or services, repairs, or disposes of appliances, Owner/Operator shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. These requirements are Federally Enforceable through this Title V Permit.
[40 CFR Part 82, Subpart F]
21. If Owner/Operator performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), Owner/Operator shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. These requirements are Federally Enforceable through this Title V Permit.
[40 CFR Part 82, Subpart B]
22. Notwithstanding the testing requirements contained elsewhere in this Title V Permit, any credible evidence may be used to establish violations, including but not limited to; reference test methods, engineering calculations, indirect estimates of emissions, CEMS data, and parametric monitoring data. Data need not be required to be collected in a Title V permit in order to be considered credible.
[Section 113(a) of the Clean Air Act]

PART V OPERATIONAL FLEXIBILITY

A. ALTERNATIVE OPERATING SCENARIO (S):

B. OFF PERMIT CHANGES:

I. Permittee may make a proposed change to equipment covered by this permit that is not expressly allowed or prohibited by this permit if:

A. Permittee has applied for and obtained all permits and approvals required by MDAQMD Regulation II and Regulation XII unless the equipment involved in the change is exempt from obtaining such permits and approvals pursuant to the provisions of Rule 219; and

1. The proposed change is not:

- a. Subject to any requirements under Title IV of the Federal Clean Air Act; or *[See 1203(E)(1)(c)(i)d]*
- b. A modification under Title I of the Federal Clean Air Act; or
- c. A modification subject to Regulation XIII; and *[See 1203(E)(1)(c)(i) d]*
- d. The change does not violate any Federal, State or Local requirement, including an applicable requirement; and *[See 1203(E)(1)(c)(i)c]*
- e. The change does not result in the exceedance of the emissions allowable under this permit (whether expressed as an emissions rate or in terms of total emissions). *[See 1203(E)(1)(c)(i)e]*

II. Procedure for “Off Permit” Changes

A. If a proposed “Off Permit Change” qualifies under Part V, Section (B)(I)(A)(1) above, permittee shall implement the change as follows:

1. Permittee shall apply for an Authority To Construct permit pursuant to the provisions of Regulation II. *[See 1203(E)(1)(c)(i)b]*

2. In addition to the information required pursuant to the provisions of Regulation II and Regulation XIII such application shall include:

- a. A notification that this application is also an application for an “Off Permit” Change pursuant to this condition; and *[See 1203(E)(1)(c)(i)b]*
- b. A list of any new Applicable Requirements which would apply as a result of the change; and *[See 1203(E)(1)(c)(i)b.]*
- c. A list of any existing Applicable Requirements, which would cease to apply as a result of the change. *[See 1203(E)(1)(c)(i)c]*

3. Permittee shall forward a copy of the application and notification to USEPA upon submitting it to the District. *[See 1203(E)(1)(c)(i)a]*
 - B. Permittee may make the proposed change upon receipt from the District of the Authority to Construct Permit or thirty (30) days after forwarding the copy of the notice and application to USEPA whichever occurs later. *[See 1203(E)(1)(c)(i)a and g]*
 - C. Permittee shall attach a copy of the Authority to Construct Permit and any subsequent Permit to Operate, which evidences the Off Permit Change to this Title V permit. *[See 1203(E)(1)(c)(i)f]*
 - D. Permittee shall include each Off-Permit Change made during the term of the permit in any renewal application submitted pursuant to Rule 1202(B)(3)(b). *[See 1203(E)(1)(c)(i)f]*
- III. Other Requirements:
- A. The provisions of Rule 1205 – Modifications do not apply to an Off Permit Change made pursuant to this condition.
 - B. The provisions of Rule 1203(G) – Permit Shield do not apply to an Off Permit Change made pursuant to this condition. *[See 40 CFR 70.4(b)(i)(B)]*
- [Rule 1203(E)(1)(c)]

PART VI CONVENTIONS, ABBREVIATIONS, DEFINITIONS

A. The following referencing conventions are used in this Federal Operating Permit:

- 40CFR72, Permits Regulation (Acid Rain Program)
- 40CFR73, Sulfur Dioxide Allowance System
- 40CFR75, Continuous Emission Monitoring
- 40CFR75, Subpart D, Missing Data Substitution Procedures
- 40CFR75, Appendix B, Quality Assurance and Quality Control Procedures
- 40CFR75, Appendix C, Missing Data Estimating Procedures
- 40CFR75, Appendix D, Optional SO₂ Emissions Data Protocol
- 40CFR75, Appendix F, Conversion Procedures
- 40CFR75, Appendix G, Determination of CO₂ Emissions

B. Other conventions:

1. Unless otherwise noted, a “day” shall be considered a 24 hour period from midnight to midnight (i.e., calendar day).
2. The process unit identifications represent the District permit number designations. These numbers are not sequential. The use of District permit numbers provides continuity between the District and Federal Operating Permit systems.

C. Abbreviations used in this permit are as follows:

APCO	Air Pollution Control Officer
bhp	brake horse power
Btu	British thermal units
CARB	California Air Resources Board
CEMS	continuous emissions monitoring system
CFR	Code of Federal Regulations
CO	carbon monoxide
CO ₂	carbon dioxide
District	Mojave Desert Air Quality Management District (formed July 1993)
EO	Executive Order
hp	horse power
MDAQMD	Mojave Desert Air Quality Management District (formed July 1993)
o/o	Owner/operator
PM ₁₀	particulate matter less than 10 microns aerodynamic diameter

psia	pounds per square inch absolute
psig	pounds per square inch gage
rpm	revolutions per minute
SIC	Standard Industrial Classification
SIP	State of California Implementation Plan
SO ₂	sulfur dioxide
tpy	tons per year

Emission Testing – Newberry Springs

Emission Test Report for Southern California Gas Newberry Springs Compressor Station Compressor Number 7 is available for review at:

Mojave Desert Air Quality Management

14306 Park Avenue
Victorville, CA 92392-2310
760-762-1661

2019 ANNUAL COMPLIANCE REPORT

II. BIOLOGICAL RESOURCES / WASTE MANAGEMENT

SEGS VIII & IX

Waste Contractors List and Agreements

Luz Solar Partners VIII & IX have entered into contracts with the following listed transporters to provide transportation and disposal services for various hazardous and non-hazardous wastes. Luz Solar Partners VIII & IX does not directly contract with any hazardous waste disposal facilities.

Luz Solar Partners VIII & IX utilizes the San Bernardino County franchise trash collection service for all ordinary trash collection and disposal. As such there is no contract in place for this service and there is no accounting available as to the quantity shipped to the Barstow landfill.

Transportation companies with contracts in 2019:

Burrtec Waste Industries	Non-hazardous wastes
MP Environmental Services	Hazardous wastes
Nursery Products Services	Non-hazardous wastes
Asbury Environmental Services	Hazardous wastes
CVC Environmental	Hazardous / Non-hazardous Waste
Clean Harbors	Hazardous wastes
World Oil Environmental Services	Hazardous wastes

All hazardous waste transporters listed above have active valid EPA identification numbers as well as current valid registration with the California Department of Toxic Substances Control (DTSC). Information regarding these permits is available on the DTSC website.

2019 ANNUAL COMPLIANCE REPORT

II. BIOLOGICAL RESOURCES / WASTE MANAGEMENT

SEGS VIII & IX

2019 Non-Hazardous Waste Summary

<u>Waste Type</u>			<u>Quantity (tons)</u>	<u>Disposal Method and Facility</u>		
Clarifier	Sludge	Cake	18.78	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	9.30	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	13.23	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	14.74	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	9.89	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	7.37	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	20.11	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	24.19	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	26.50	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	20.38	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	21.32	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	11.03	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	12.53	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	10.30	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	11.72	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	12.80	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	19.15	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	17.60	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	20.35	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	19.56	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	20.17	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	20.63	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	21.00	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	17.84	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	18.39	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	19.12	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	17.11	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	18.08	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	23.97	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	24.44	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	21.66	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	16.23	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	19.66	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	20.92	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	23.94	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	23.20	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	19.50	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	21.98	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	23.28	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	18.30	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	19.34	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	21.42	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	22.70	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	18.96	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	22.04	Recycle	Helendale,	CA
Clarifier	Sludge	Cake	24.28	Recycle	Helendale,	CA

2019 ANNUAL COMPLIANCE REPORT

II. BIOLOGICAL RESOURCES / WASTE MANAGEMENT

SEGS VIII & IX

2019 Hazardous Waste Summary

<u>Waste Type</u>	<u>Quantity (tons)</u>	<u>Disposal Method and Facility</u>	
Mirror Glass Contaminated With Lead	11.54	Landfill	Beatty, NV
Cooling Tower Waste Liquid	5.56	Landfill	Wellton, AZ
Oily Water with HTF	16.92	Recycle	Compton, CA
Oil Contaminated Debris	0.74	Landfill	Buttonwillow, CA
Oily Water with HTF	8.10	Recycle	Compton, CA
Mirror Glass Contaminated With Lead	6.51	Landfill	Beatty, NV
Oil Contaminated Debris	0.74	Landfill	Buttonwillow, CA
Oily Water with HTF	16.38	Recycle	Compton, CA
Mirror Glass Contaminated With Lead	11.49	Landfill	Buttonwillow, CA
Oily water with HTF	17.88	Recycle	Compton, CA
Aqueous Degreaser	0.08	Recycle	Knolls, UT

2019 ANNUAL COMPLIANCE REPORT

II. BIOLOGICAL RESOURCES / WASTE MANAGEMENT

SEGS VIII & IX

Hazardous Waste Storage

Under Conditions of Certification WASTE-4 (VIII) and WASTE-5 (IX) Luz Solar Partners VIII & IX shall not store hazardous waste on site for more than 90 days unless they obtain an extension from California Department of Health Services (CDHS) or a permit as a storage facility. Jurisdiction over hazardous waste management no longer resides with the CDHS. The California Department of Toxic Substances Control (DTSC) is the state agency that now has jurisdiction in these matters and the agency empowered with the enforcement of the regulations is the San Bernardino County Fire Department, Hazardous Materials Division acting as the CUPA for San Bernardino County. Luz Solar Partners VIII & IX follows all applicable regulations regarding the storage of hazardous materials on site. No hazardous materials are stored on site for longer than 90 days unless allowed by LORS and Luz Solar Partners VIII & IX did not apply for a variance to hazardous waste regulations or applied for a permit as a storage facility during the 2019 calendar year.

2019 ANNUAL COMPLIANCE REPORT

II. BIOLOGICAL RESOURCES / WASTE MANAGEMENT

SEGS VIII & IX

2018 Heat Transfer Fluid Waste Manifests

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number CAR000215715	2. Page 1 of 1	3. Emergency Response Phone (800) 483-3718	4. Manifest Tracking Number 012811861 FLE		
5. Generator's Name and Mailing Address Luz Solar Partners VIII & IX 43880 Harper Lake Rd Hinkley, CA 92347				Generator's Site Address (if different than mailing address) SAME			
Generator's Phone: (760) 762-3117							
6. Transporter 1 Company Name Clean Harbors Environmental Services, Inc.				U.S. EPA ID Number MAD039322250			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address Clean Harbors Buttonwillow LLC 2500 West Lokern Road Buttonwillow, CA 93206				U.S. EPA ID Number CAD980675276			
Facility's Phone: (661) 762-6200							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes	
		No.	Type				
1.	NON-RCRA HAZARDOUS WASTE, SOLIDS, (OILY DEBRIS)	<i>001</i>	<i>CM</i>	<i>18</i>	<i>Y</i>	352	
2.							
3.							
4.							
14. Special Handling Instructions and Additional Information 1. CH1866598 <i>WB-1</i>							
<p style="text-align: right; font-size: small;">Contract retained by generator confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf for purposes of transportation efficiency, convenience or safety.</p> <p>15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.</p>							
Generator's/Offeror's Printed/Typed Name CYNTHIA PRICE				Signature <i>Cynthia Price</i>		Month Day Year 7 10 19	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name ALVESTER IBE				Signature <i>Alvester Ibe</i>		Month Day Year 7 10 19	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
18b. Alternate Facility (or Generator) U.S. EPA ID Number							
Facility's Phone: _____							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name				Signature		Month Day Year	

0914

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number CAR000215715	2. Page 1 of	3. Emergency Response Phone 1 661-391-3311	4. Manifest Tracking Number 016813393 JJK
---	---	--------------	--	---

5. Generator's Name and Mailing Address Luz Solar Partners VIII - IX 43880 Harper Lake Rd. Hinkley, CA 92347	Generator's Site Address (if different than mailing address) SEGS - 8 / SAME
--	--

6. Transporter 1 Company Name Mashburn Transportation Services	U.S. EPA ID Number CAL 000 415 079
--	--

7. Transporter 2 Company Name	U.S. EPA ID Number
-------------------------------	--------------------

8. Designated Facility Name and Site Address Clean Harbors-Buttonwillow 2500 W. Lokern Rd. Buttonwillow, CA 93206	U.S. EPA ID Number CAD 980 675 276
---	--

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
1.	Non-RCRA Hazardous Waste Solid, HTF, Oil Contaminated Debris	1	CM	20	Y	352		
2.								
3.								
4.								

14. Special Handling Instructions and Additional Information 9b1. Profile #CH1794120 Wear Proper PPE
--

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offoror's Printed/Typed Name JOE FAUBUS	Signature <i>[Signature]</i>	Month 12	Day 22	Year 19
---	---------------------------------	--------------------	------------------	-------------------

16. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

17. Transporter Acknowledgment of Receipt of Materials	Signature <i>[Signature]</i>	Month 12	Day 22	Year 19
--	---------------------------------	--------------------	------------------	-------------------

18. Discrepancy	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection
-----------------	---

18b. Alternate Facility (or Generator)	Manifest Reference Number: _____ U.S. EPA ID Number _____
--	---

18c. Signature of Alternate Facility (or Generator)	Month Day Year
---	----------------------

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)	Month Day Year
---	----------------------

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a	Signature <i>[Signature]</i>	Month 12	Day 27	Year 19
--	---------------------------------	--------------------	------------------	-------------------

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

GENERATOR
INTL
TRANSPORTER
DESIGNATED FACILITY

2019 ANNUAL COMPLIANCE REPORT

II. BIOLOGICAL RESOURCES / WASTE MANAGEMENT

SEGS VIII & IX

Heat Transfer Fluid Shipments

There were no HTF shipments to the SEGS VIII and IX facilities in 2019.

2019 ANNUAL COMPLIANCE REPORT

II. BIOLOGICAL RESOURCES / WASTE MANAGEMENT

SEGS VIII & IX

BLM Habitat Well Water Usage

**Annual Verification Report Form
 and
 Invoice for Administrative & Biological Assessments
 4th Quarter (July 1 - September 30)
 2018-19 Water Year**

Account Number: HAR004P	Subarea: Centro	Free Production Allowance (FPA):	1,147 Ac-ft
Harper Lake Company VIII		Prior Year Carryover:	1,030 Ac-ft
43880 Harper Lake Road		FPA Transfers In:	0 Ac-ft
Hinkley, CA 92347		FPA Transfers Out:	0 Ac-ft
		Carryover Transfers In:	0 Ac-ft
		Carryover Transfers Out:	0 Ac-ft
		Total Adjusted FPA:	2,177 Ac-ft



State Well Number	Local Well Designation	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter Production	Current Well Status*	Estimated Annual Production
I1N04W19E01	WELL #34	0.00	.21	0.00	Ø	A	.21
I1N04W19E02	WELL #35	111.80	62.73	204.50	232.15	A	611.09
I1N04W19J01	WELL #40	4.01	10.12	86.49	139.17	A	234.79
I1N04W19Q02	WELL #36	2.92	2.37	10.28	39.75	A	55.32
I1N04W28R01	BLM Habitat Well	0.00	0.00	0.00	Ø		Ø
I1N04W28R02	BLM Habitat Well #02	11.37	0.00	21.35	12.23	A	44.96
I1N05W24L01	WELL #37	0.00	0.00	0.00	Ø	I	Ø
I1N05W24P02	WELL #38	0.00	0.00	0.00	Ø	I	Ø
I1N05W24Q02	WELL "D"	0.00	0.00	0.00	Ø	I	Ø
Totals:		130.10	75.43	322.62	418.30	Ac-Ft	946.46

* A=Active
 I=Inactive
 S=Sold
 D=Destroyed
 L=Leased
 B=Abandoned
 U=Unknown
 M=Monitoring
 T=Standby

Administrative Assessment @ \$ 3.55 per Ac-Ft
 (Production x \$ 3.55)

\$ 1,484.97

Biological Assessment @ \$ 0.94 per Ac-Ft
 (Production x \$ 0.94)

\$ 393.20

Total Amount Due

\$ 1,878.17

Please indicate in the space below, the contact person you wish to receive all Watermaster mailings and their address.

Contact: Neal Davies
 Phone: (760) 762-3100 EXT 225

Mailing Address: 43880 Harper Lake Road
Hinkley CA 92347
 City State Zip Code

I declare under penalty of perjury that the foregoing information is true and correct:

[Signature]
 Individual
 Date: 10/11/19

Terra-Gen Operating Co.
 Company
Robert Fimbres
 Company Agent
 Date: 10/11/19

Payment is due and payable October 31, 2019.

Please attach a check to the top copy and return in the enclosed envelope with proper postage.

A charge of 1.25% per month or portion thereof will be assessed to any account past due.

If not received by October 31, 2019 your assessments will be calculated as if 25% of your Base Annual Production was produced.

Please make any corrections and/or additions on this page and attach supporting documentation.

2019 ANNUAL COMPLIANCE REPORT

II. BIOLOGICAL RESOURCES / WASTE MANAGEMENT

SEGS VIII & IX

2019 BRMIP Statement of Compliance



CARLSBAD
FRESNO
IRVINE
LOS ANGELES
PALM SPRINGS
POINT RICHMOND
RIVERSIDE
ROSEVILLE
SAN LUIS OBISPO

January 17, 2020

Joe Faubus
Terra-Gen Operating Company
43880 Harper Lake Road
Hinkley, CA 92347

Subject: Biological Resources Mitigation Implementation Plan (BRMIP) Compliance

Dear Mr. Faubus:

The Solar Energy Generating Systems (SEGS) VIII and IX facilities conducted all activities from January 1, 2019, to December 31, 2019, in compliance with the approved Biological Resources Mitigation Implementation Plan (BRMIP) and the portions of the California Energy Commission decision pertinent to biological resources.

Sincerely,

LSA Associates, Inc.

Richard A. Erickson
Designated Biologist

CONDITIONS OF CERTIFICATION

SEGS VIII and IX

Condition 4

LUZ Solar Partners VIII and IX received no complaints from property owners or the public regarding problems due to induced voltages on vehicles, portable objects, metallic roofs, metallic building sidings, gutters, fences, irrigation equipment or other objects within the right-of-way for the calendar year 2019.

Condition 5

LUZ Solar Partners VIII and IX received no complaints of radio and television interference attributed to the transmission line facilities for the calendar year 2019.

Condition 6

LUZ Solar Partners VIII and IX maintained each transmission line pole site free of waste material and rubbish for the calendar year 2019.

Transmission Line Inspection

2019 Inspection

The transmission line between the Harper Lake facilities and Kramer Junction was inspected in April 2019. The transmission line poles were free of waste material and rubbish.

2019 ANNUAL COMPLIANCE REPORT

IV. DIESEL FUEL DATA

SEGS VIII & IX

Diesel Fuel Data

2019 Diesel Fuel Purchases provided under separate cover.

2019 ANNUAL COMPLIANCE REPORT

V. QUALIFYING FACILITY STATUS

SEGS VIII & IX

2019 Facility Status

SEGS VIII

Power Output

150,699 Gross MWh

Primary Energy

1,505,065 mmbtu

Natural Gas Use

238,847 mmbtu

SEGS IX

Power Output

154,684 Gross MWh

Primary Energy

1,490,627 mmbtu

Natural Gas Use

216,775 mmbtu

2019 ANNUAL COMPLIANCE REPORT

V. QUALIFYING FACILITY STATUS

SEGS VIII & IX

Power Plant Reliability

SEGS VIII - 2019 Production Data

	Net Electrical Production	Monthly Capacity Factors			Plant Availability
		(MWh)	On-Peak	Mid-Peak	
Jan	608		42.2%	9.2%	6%
Feb	3,365		12.4%	4.4%	73%
Mar	8,284		21.8%	15.4%	93%
Apr	13,357		41.7%	18.7%	100%
May	13,409	0.0%	42.6%	16.7%	1,1%
Jun	22,443	99.0%	42.5%	23.6%	100%
Jul	23,308	97.4%	41.6%	22.2%	100%
Aug	22,771	99.9%	41.2%	19.7%	100%
Sep	16,319	93.3%	24.7%	13.1%	100%
Oct	7,601	0.0%	23.9%	9.1%	73%
Nov	4,488		13.6%	7.4%	100%
Dec	1,523		4.7%	2.2%	100%
Year	1,982,760				

SEGS IX - 2019 Production Data

	Net Electrical Production	Monthly Capacity Factors			Plant Availability
		(MWh)	On-Peak	Mid-Peak	
Jan	647		42.2%	11.3%	6%
Feb	4,951		16.2%	8.5%	100%
Mar	6,008		18.5%	11.2%	67%
Apr	14,052		43.5%	20.1%	100%
May	15,110	0.0%	48.0%	18.9%	100%
Jun	23,402	100.9%	44.4%	25.3%	100%
Jul	22,418	97.2%	41.8%	19.1%	98%
Aug	22,795	100.6%	39.0%	20.7%	100%
Sep	17,159	96.3%	26.7%	14.0%	100%
Oct	8,018	0.0%	25.1%	9.7%	73%
Nov	4,074		12.2%	6.8%	96%
Dec	1,520		4.5%	2.4%	99%
Year	1,924,178				

2019 ANNUAL COMPLIANCE REPORT

V. QUALIFYING FACILITY STATUS

SEGS VIII & IX

Compliance Matrix

2019 ANNUAL COMPLIANCE REPORT
SEGS VIII & IX

VI. CONDITIONS OF CERTIFICATION

Compliance Matrix

COMPLIANCE REQUIREMENTS FOR SEGS VIII & SEGS IX				
Date: February 07, 2016				
CONDITION	ISSUE	SUBMIT TO	PERMIT REQUIREMENTS	STATUS
AIR QUALITY				
AQ 1-1 IX AQ 1-1 VIII	Restrict heater NO _x emissions <328.5 lb/day Low NO _x burners		Effective 6/1/92 Install low NO _x burners	Deleted May 10, 2001 Complete
AQ 1-2 IX AQ 1-2 VIII	NO _x emission controls to Southern Cal Gas engines NO _x emissions	CEC CPM	Must be modified by 6/1/91 Monitor NO _x emissions at III, IV & VIII. Submit Quarterly Compliance Reports.	Complete Deleted May 10, 2001
AQ 1-3b IX	Tests of modified engines	MDAQMD CPM	Source tests for modified engines	Ongoing Currently under review
AQ 1-3, AQ1-4 VIII AQ 1-4b IX	PM10 control	CEC CPM	Provide PM10 control plan & mitigation Treat roads with magnesium chloride as needed for fugitive dust control	Complete MgCl applied to Hoffman, Lockhart & Santa Fe Roads
AQ 1-5	Revised PM10 emission limit		Revise PM10 limits after workshop	Complete

**2019 ANNUAL COMPLIANCE REPORT
SEGS VIII & IX**

VI. CONDITIONS OF CERTIFICATION

COMPLIANCE REQUIREMENTS FOR SEGS VIII & SEGS IX				
				Date: February 07, 2016
CONDITION	ISSUE	SUBMIT TO	PERMIT REQUIREMENTS	STATUS
AQ1-6	PM10 control		Treat roads with magnesium chloride	See AQ 1-4
AQ 1-7	Source test protocol for cooling tower		Submit protocol for measuring PM101	Complete
AQ 1-8	Test requirements for cooling tower		Comply with requirements in cooling tower source tests	Complete
AQ 1-10	Collect SEGS VIII data, NO _x >300 lb/day data collection		Report occasions when NO _x >300 lb/day from 3/1/90 to 12/31/92	Complete
AQ 1-11 VIII & IX	Applicable district rules	CEC	Comply with all applicable rules of SBCAPCD Annual report	Ongoing Ongoing
AQ 1-12 VIII & IX	Other applicable rules	CEC	Compliance with applicable federal and State rules Quarterly report	Ongoing Ongoing
AQ 1-13 VIII & IX	Permit conditions	MDAQMD CEC	Any changes to MDAQMD required emission controls subject to review	Ongoing, as required
AQ 1-14 VIII & IX	BACT requirement	MDAQMD	Specifies emission limits	Ongoing
AQ 1-15 VIII & IX	Design changes	MDAQMD CEC	Modification to heaters requires MDAQMD approval	Ongoing, as required

2019 ANNUAL COMPLIANCE REPORT
SEGS VIII & IX

VI. CONDITIONS OF CERTIFICATION

COMPLIANCE REQUIREMENTS FOR SEGS VIII & SEGS IX				
				Date: February 07, 2016
CONDITION	ISSUE	SUBMIT TO	PERMIT REQUIREMENTS	STATUS
AQ 1-19 VIII & IX	Malfunction / Breakdown Provisions	MDAQMD	Promptly notify MDAQMD of any violations	Ongoing
AQ 1-20 VIII & IX	Right to Entry	MDAQMD CARB, EPA, CEC	Permit authorized personnel to enter for inspection. Have records available for inspection.	Ongoing
AQ 1-21 VIII & IX	Transfer of Ownership	MDAQMD CEC	Notify by letter succeeding owners & operators that the Commission Decision\Permit to Operate is binding on all subsequent owners & operators	Ongoing, as required
AQ 1-23	Emission limits during installation and testing		Use best heater operation Approval for heater test >16 hours Verify 25 ppm by source test If NO _x emissions above lbs/day limit 1. Submit plan for approval 2. Implement changes	Complete PTO modified
AQ 1-24 VIII & IX	Operational phase	MDAQMD	Restrict heater consumption to no more than 9.5x10 ⁶ therms Operate cooling tower <4,000 hrs/yr Perform heater compliance testing annually Submit gas use data & circ water pump daily hrs of operation in quarterly report Submit results of Heaters Compliance Testing in Annual Compliance Report	Deleted May 10, 2001 Ongoing Ongoing Ongoing

**2019 ANNUAL COMPLIANCE REPORT
SEGS VIII & IX**

VI. CONDITIONS OF CERTIFICATION

COMPLIANCE REQUIREMENTS FOR SEGS VIII & SEGS IX				
				Date: February 07, 2016
CONDITION	ISSUE	SUBMIT TO	PERMIT REQUIREMENTS	STATUS
			along with daily Heaters Nat Gas consumption and Cooling Tower Fans' daily hrs of operation.	
AQ 1-25	Fuel use		Use only commercial grade natural gas as fuel	Ongoing
AQ 1-26 VIII & IX	Opacity limits	MDAQMD	Monitor visible emissions	Ongoing
AQ 1-27	CEMS		Submit CEMS plan for approval Order and install CEMS Certification test; cylinder gas audit and RATA tests Test report	Complete Complete Ongoing Ongoing
AQ 1-28 VIII & IX	Compliance test	MDAQMD CEC	Submit revised plan for approval Conduct test Test particulates every fifth year	Ongoing
AQ 1-29 VIII & IX	Monitoring plan\ Reporting requirements	MDAQMD CEC CPM	Have a Monitoring Plan. Submit quarterly reports to MDAQMD Daily NO _x emissions in ppm and lbs/hr Quarterly total tons emitted for NO _x based on CEMS data	Ongoing

2019 ANNUAL COMPLIANCE REPORT
SEGS VIII & IX

VI. CONDITIONS OF CERTIFICATION

COMPLIANCE REQUIREMENTS FOR SEGS VIII & SEGS IX				
				Date: February 07, 2016
CONDITION	ISSUE	SUBMIT TO	PERMIT REQUIREMENTS	STATUS
			Quarterly total tons for particulate and CO based on compliance test and fuel consumption Number of exceedances of permit limits, the corresponding maximum & duration of each exceedance Rolling average NO _x emissions for HTF heaters, diesel generators, diesel fire pumps When CEMS data is missing, use previous 24 hours of NO _x emission data Records of fuel oil purchase, sulfur content, quantity and Btu content Natural gas consumption Submit annual reports to CEC Send quarterly reports to MDAQMD	
AQ 1-30 VIII & IX	Operating logs	MDAQMD CARB CEC	Maintain daily operating logs & charts on-site; retain for 1 year	Ongoing
AQ 1-31	Air monitoring		Monitor air quality and submit data Obtain approval to cease	Complete
AQ 1-32	Fugitive dust controls		Comply with MDAQMD 401, 402 & 403. Have an approved Dust Control Plan.	Ongoing
AQ 1-33		MDAQMD		Ongoing

**2019 ANNUAL COMPLIANCE REPORT
SEGS VIII & IX**

VI. CONDITIONS OF CERTIFICATION

COMPLIANCE REQUIREMENTS FOR SEGS VIII & SEGS IX				
				Date: February 07, 2016
CONDITION	ISSUE	SUBMIT TO	PERMIT REQUIREMENTS	STATUS
VIII & IX	Diesel Gen Set & Fire Pump: Use low sulfur diesel, submit records	CEC	Submit data in quarterly report to incl records of fuel oil purchased, sulfur content, quantity, and BTU value. Diesel generator and fire pump fuels must contain less than 0.5% sulfur by weight	
AQ 1-34 VIII & IX	Control of unregulated pollutants	MDAQMD CEC	Do not use hexavalent chromium compounds in cooling tower water circulating system	Ongoing
AQ 1-37 IX AQ 1-38 VIII	Emission limits	MDAQMD CEC	NO _x limit at 547 lbs/day for aggregate of all equipment and 45.9 tons on rolling annual average. Restrict CO & particulate emissions to values in tables I, II, & III Submit above data in quarterly report	Ongoing Ongoing Ongoing
AQ 1-38 IX AQ 1-39 VIII	Missing CEMS data	MDAQMD CEC	Use average data when CEMS is out of service. Submit Missing Data Nox emissions calculations in Quarterly Report	Ongoing
AQ 1-39(4) IX AQ 1-40(4) VIII	Notification and recordkeeping	MDAQMD EPA CEC	Notify EPA and APCD if emissions exceed 547 lbs/day average Maintain five-year file of CEMS data	Ongoing
AQ 1-40		MDAQMD		Ongoing, as needed

2019 ANNUAL COMPLIANCE REPORT
SEGS VIII & IX

VI. CONDITIONS OF CERTIFICATION

COMPLIANCE REQUIREMENTS FOR SEGS VIII & SEGS IX				
				Date: February 07, 2016
CONDITION	ISSUE	SUBMIT TO	PERMIT REQUIREMENTS	STATUS
IX AQ 1-41 VIII	Prevention of significant deterioration	CEC	Review emission changes for 100-ton/year level If site is a major source, file for PSD permit	Ongoing, as needed
AQ 1-41 IX	HTF heater operation		Correct SEGS VIII heater design that caused accident Agency approval before firing IX	Complete Complete
BIOLOGICAL RESOURCES				
BR 1 (BRMIP 5.0)	Habitat compensation		Enter into agreement with CDFG Provide for Mohave ground squirrel habitat Provide for off-site desert tortoise habitat Transfer title of ownership to CDFG Deposit land purchasing funds Provide funds for enhancement and management including Annual Maintenance payments. Provide CEC with signed copy of agreement with CDFG Notify CEC of land purchases, subject to consultation with CDFG, BLM and USFWS	Complete Complete Complete Complete Complete Complete Complete Complete
BR 2			Submit signs, letters, etc. to the CEC	Complete

2019 ANNUAL COMPLIANCE REPORT
SEGS VIII & IX

VI. CONDITIONS OF CERTIFICATION

COMPLIANCE REQUIREMENTS FOR SEGS VIII & SEGS IX				
				Date: February 07, 2016
CONDITION	ISSUE	SUBMIT TO	PERMIT REQUIREMENTS	STATUS
VIII	Public notice of habitat compensation			
BR 2 (BRMIP 2.0) IX BR 3 VIII	Designated biologist		Submit qualifications of biologist to CEC for approval. If change biologists, submit qualifications for approval.	Complete Ongoing, as required
BR 3 (BRMIP 4.1) BR 4a VIII	Surface disturbance restrictions		Designate off-limit areas Obtain approval from designated biologist for any surface disturbance	Complete Ongoing, as required
BR 4 (BRMIP 4.2) IX BR 4b VIII	Off-road travel restrictions		Prohibit off-road travel in sensitive biological areas. Post signs, Include in Environmental Awareness Training.	Complete Ongoing (for Operations)
BR 4c VIII	Transmission line plant survey		Identify botanically sensitive areas along transmission line	Complete
BR 4d VIII	Temporary travel ways		Designate temporary travel ways along the transmission lines	Complete
BR 4e VIII	Wildlife preservation		Identify active desert tortoise & Mohave ground squirrel burrows along transmission lines	Complete

2019 ANNUAL COMPLIANCE REPORT
SEGS VIII & IX

VI. CONDITIONS OF CERTIFICATION

COMPLIANCE REQUIREMENTS FOR SEGS VIII & SEGS IX				
				Date: February 07, 2016
CONDITION	ISSUE	SUBMIT TO	PERMIT REQUIREMENTS	STATUS
			Obtain MOU from CDFG Salvage & relocate desert tortoises as needed	Complete Complete
BR 4h VIII BR 8 IX (BRMIP 4.6)	Employee Awareness Training	CEC CPM USFWS CDFG	Provide training to new employees; keep records Provide brochure to contractors Post brochure	Ongoing Ongoing
BR 4j (BRMIP 4.10) VIII	Anti-perching devices		Install anti-perching (Nixalite) devices on transmission line towers & poles Monthly inspection by designated biologist during raven nesting season for at least 5 years	Complete Complete
BR 5 IX (BRMIP 4.3)	Desert tortoise preservation		Salvage & relocate desert tortoises as needed Obtain MOU from CDFG Obtain Section 7 Consultation from USFWS	Ongoing Complete Complete
BR 5 VIII	Wetlands Enhancement Plan	CEC CPM	Submit plan for approval Discharge blowdown to north marsh unless detrimental to wildlife In lieu of marsh discharge, construct evap ponds	Deleted April 26, 2000 Deleted April 26, 2000 Deleted April 26, 2000

2019 ANNUAL COMPLIANCE REPORT
SEGS VIII & IX

VI. CONDITIONS OF CERTIFICATION

COMPLIANCE REQUIREMENTS FOR SEGS VIII & SEGS IX				
				Date: February 07, 2016
CONDITION	ISSUE	SUBMIT TO	PERMIT REQUIREMENTS	STATUS
			Monitor water quality & wildlife usage of wetlands or ponds	
BR 6 (BRMIP 4.4) BR 4f VIII	Desert tortoise fencing	CEC	Construct permanent tortoise-proof fence around facility Fence design approval from CEC/CDFG/ USFWS/BLM Construct tortoise fence on HLR	Complete Complete Complete
BR 7 (BRMIP 4.5) IX BR 4g VIII	Speed limits		Post speed limits along travel ways Obtain approval from CDFG	Complete Complete
BR 8 (BRMIP 4.6) IX	Employee environmental awareness program	CEC	Provide educational brochure Conduct employee orientation Distribute "Sensitive Wildlife Observation Forms" to all employees Collect employee signed affidavits	Complete Ongoing, as required Complete Complete
BR 8 (BRMIP 7.0) VIII	Central & southern wetlands study		Submit study protocol to CEC for approval Conduct investigations of central & southern marshes for two years Convey discharge water to marshes	Complete Payment pending On hold, pending COC amendment
BR 9				Complete

2019 ANNUAL COMPLIANCE REPORT
SEGS VIII & IX

VI. CONDITIONS OF CERTIFICATION

COMPLIANCE REQUIREMENTS FOR SEGS VIII & SEGS IX				
				Date: February 07, 2016
CONDITION	ISSUE	SUBMIT TO	PERMIT REQUIREMENTS	STATUS
IX (BRMIP 4.7) BR 4i VIII	Trash and litter control program		Supply covered trash and litter receptacles in strategic locations Bury trash and litter or dispose of in covered dumpsters	Complete
BR 9 VIII (BRMIP 8.0)	Agricultural discharge to wetlands		Monitor agricultural discharge to southern & central marshes Notify CEC of any changes in discharge volumes Provide supplemental well water to discharge water as needed	Complete Complete Complete
BR 10 IX (BRMIP 4.8) BR 4k VIII	Habitat restoration		Restoration/revegetation of temporarily disturbed areas	Complete
BR 11 (BRMIP 6.0) IX	Evaporation pond monitoring plan		Maintain appropriate pond depth Maintain fencing Conduct annual invertebrate sampling Conduct lab analysis of samples Notify CEC and CDFG if selenium levels exceed 4 ppm Submit quarterly pond monitoring report to CDFG	Ongoing Ongoing Ongoing Ongoing, as required Ongoing Ongoing

2019 ANNUAL COMPLIANCE REPORT
SEGS VIII & IX

VI. CONDITIONS OF CERTIFICATION

COMPLIANCE REQUIREMENTS FOR SEGS VIII & SEGS IX				
				Date: February 07, 2016
CONDITION	ISSUE	SUBMIT TO	PERMIT REQUIREMENTS	STATUS
			Allow up to 75 ac ft of water per year to BLM for north marsh enhancement. Submit annual BLM usage to CEC.	
BR 11 (BRMIP 6.0) VIII	Transmission line mitigations		Prepare transmission line mitigation measures Submit transmission line mitigations for CEC approval Implement transmission line mitigation measures	Complete Complete Complete
BR 12 (BRMIP 8.0)	BRMIP approval		Submit BRMIP to CEC for approval	Complete
BR 13 (BRMIP 8.0) IX BR 6 VIII	Implement and monitor compliance issues	CEC CPM	Submit monthly compliance status report to CEC Submit annual compliance report from designated biologist to CEC Notify CEC of any adverse impacts to sensitive species	Complete Ongoing Ongoing
BR 14 (BRMIP 8.0) IX BR 7 VIII	Site access		Provide letter of authorization to CEC	Complete
BR 3-BR 11	Weekly activity report		Notify CEC in the weekly report	Ongoing

**2019 ANNUAL COMPLIANCE REPORT
SEGS VIII & IX**

VI. CONDITIONS OF CERTIFICATION

COMPLIANCE REQUIREMENTS FOR SEGS VIII & SEGS IX				
				Date: February 07, 2016
CONDITION	ISSUE	SUBMIT TO	PERMIT REQUIREMENTS	STATUS
WATER RESOURCES				
WR 1	Well logs and data		Submit logs and data	Complete
WR 2 VIII & IX	Extracted groundwater consumption	CEC CPM LRWQCB	Provide for each well extracting groundwater in Annual Compliance Report: standing water levels, pumping rates, total water extraction	Ongoing
WR 3	Water well flow meters		Submit as-built drawings to CEC	Complete
WR 4 IX	Water supply	CEC LRWQCB	Limit groundwater extractions to 950 acre/ft per yr; provide data	Ongoing
WR 4 VIII	NPDES permit for cooling tower blowdown		Obtain WDR from LRWQCB	Complete
WR 6 IX	Waste discharge requirements (WDR) for condensate system		Obtain WDR from LRWQCB	Complete
WR6 VIII	Liquid discharge to ponds	CEC CPM	Inform CEC of change in WDR's Submit with Annual Report copies of quarterly reports to LRWQCB and status of current waste disch requirements	Ongoing
WR 7			Obtain WDR from LRWQCB	Complete

2019 ANNUAL COMPLIANCE REPORT
SEGS VIII & IX

VI. CONDITIONS OF CERTIFICATION

COMPLIANCE REQUIREMENTS FOR SEGS VIII & SEGS IX				
				Date: February 07, 2016
CONDITION	ISSUE	SUBMIT TO	PERMIT REQUIREMENTS	STATUS
IX WR 5 VIII	WDR for cooling tower blowdown			
WR 7 VIII	Erosion control plan		Submit plan to CEC	Complete
WR 8 IX WR 6 VIII	Water Quality	CEC CPM LRWQCB	Notification of changes in LRWQCB WDRs Quarterly reports Submit status of current WDRs	Ongoing, as required Ongoing Ongoing, as required
WR8 VIII	Flood Hazard	CEC CPM	Protect adjacent private property from flooding, scouring & erosion as result of operations Submit Annual statement in Annual Compliance Report describing any maintenance or repairs on adjacent private property due to flooding, scouring, erosion	Complete Ongoing, as required
WR 9	Protect land from runoff for 25-year (not 100) storm		Construct dike along north boundary of Section 13 Prepare as-builts	Complete Complete
WR 10 IX WR 12 & 13 VIII	Water flow easements		Obtain easements or provide flood protection	Complete

2019 ANNUAL COMPLIANCE REPORT
SEGS VIII & IX

VI. CONDITIONS OF CERTIFICATION

COMPLIANCE REQUIREMENTS FOR SEGS VIII & SEGS IX				
				Date: February 07, 2016
CONDITION	ISSUE	SUBMIT TO	PERMIT REQUIREMENTS	STATUS
WR 11	Extend 100 year dike & channel to southern border of Section 25		Certify to CEC that dike & channel will be built	Complete
WR 14 VIII	Well permits	CEC CPM	Submit all copies of well drilling permits in Annual Compliance Report	Ongoing
SOCIOECONOMICS				
SE 4 IX SE 2c VIII	Payments to schools	CEC	Submit copies of checks Submit copies of signed agreements	Complete Complete
SE 7 VIII	Impacts to local fire protection	CEC CPM	Mitigate impacts caused to local fire protection agencies Identify demand placed on local agencies in Quarterly Reports & specify agency costs paid by LSP. CEC may require additional compensation.	Ongoing
SE 8	Fire protection agreement		Sign agreement	Complete
PUBLIC HEALTH				
PH 1	HTF barrier	CEC		Complete

**2019 ANNUAL COMPLIANCE REPORT
SEGS VIII & IX**

VI. CONDITIONS OF CERTIFICATION

COMPLIANCE REQUIREMENTS FOR SEGS VIII & SEGS IX				
				Date: February 07, 2016
CONDITION	ISSUE	SUBMIT TO	PERMIT REQUIREMENTS	STATUS
		SBCCBO	Prepare plan for barriers to protect HTF piping Submit plan Install barriers	Complete Complete
PH 2	HTF release plan	CEC	Submit documentation of procedures Inform CEC of training schedule	Complete Complete
PH 3	Construction employee protection plan	CEC	Develop/implement plan Install required equipment	Complete Complete
PH 4	Employee protection plan	CEC	Develop/implement plan Install required equipment	Complete Complete
PH 5 IX	Protective equipment	CEC	Provide equipment	Complete
PH 5 VIII	Materials handling procedures		Submit procedures to CEC	Complete
PH 6 VIII & IX	Cooling tower water treatment	CEC	Obtain written approval for use of chemicals not in Table 2	Ongoing, as required
PH 7 IX	Extremely hazardous materials	CEC	Do not use chemicals listed extremely hazardous without an approved Risk Management Prevention Program	Ongoing, as required

2019 ANNUAL COMPLIANCE REPORT
SEGS VIII & IX

VI. CONDITIONS OF CERTIFICATION

COMPLIANCE REQUIREMENTS FOR SEGS VIII & SEGS IX				
				Date: February 07, 2016
CONDITION	ISSUE	SUBMIT TO	PERMIT REQUIREMENTS	STATUS
WASTE MANAGEMENT				
WM 1 VIII & IX	Disposal of hazardous & non-hazardous wastes		Dispose of waste at approved facilities Provide verification to CEC via compliance reports	Ongoing, as required Ongoing, as required
WM 2	Solid waste management plan		Submit plan to CEC □ 6 months after project certification	Complete
WM 3 IX WM 6 VIII	Waste summary report	CEC CPM	Submit description of project related hazardous waste, including: quantity and type of waste, disposal methods, and facilities used	Ongoing
WM 3 VIII	Use of alternative anti-corrosion agent	DHS CEC CPM LRWQCB	If anti-corrosive agent is used, test waste for hazardous determination Obtain waste discharge permit from LRWQCB if required	Ongoing, as required Ongoing, as required
WM 4 IX WM 2 VIII	Hazardous waste generator permit for HTF		Obtain permit from DTSC (CDHS)	Ongoing

**2019 ANNUAL COMPLIANCE REPORT
SEGS VIII & IX**

VI. CONDITIONS OF CERTIFICATION

COMPLIANCE REQUIREMENTS FOR SEGS VIII & SEGS IX				
				Date: February 07, 2016
CONDITION	ISSUE	SUBMIT TO	PERMIT REQUIREMENTS	STATUS
WM 5 IX WM4 VIII	Hazardous waste storage	DHS CEC CPM	If hazardous waste is stored over 90 days obtain determination Notify if Hazardous Waste Facility Permit is granted by DHS Store & dispose of waste per DHS regulations	Ongoing, as required Ongoing, as required Ongoing
WM 5 VIII	Sanitary waste disposal		Submit	
WM 6 IX WM 7 VIII	Waste-related enforcement action	CEC CPM	Notify CEC of any action against owner or waste handlers	Ongoing, as required
WM 7 IX WM 8 VIII	HTF shipment records	CEC CPM	Maintain records of all HTF shipments	Ongoing
WM 8 IX WM9 VIII	HTF spill □20 gallons	CEC CPM	Notify CEC within 48 hours Submit written verification of the spill & clean-up measures	Ongoing, as required
WM 9 IX WM 10	HTF spill cleanup to <3000 ppm	CEC CPM	Clean up spills to level that leaves < 3000mg/kg of HTF in soil	Ongoing, as required

**2019 ANNUAL COMPLIANCE REPORT
SEGS VIII & IX**

VI. CONDITIONS OF CERTIFICATION

COMPLIANCE REQUIREMENTS FOR SEGS VIII & SEGS IX				
				Date: February 07, 2016
CONDITION	ISSUE	SUBMIT TO	PERMIT REQUIREMENTS	STATUS
VIII			Submit spill report to CEC within 30 days Submit a manifest of disposed HTF	
WM 11 VIII	Solid waste management plan		Submit plan to CEC < 6 months after project certification	Complete
PUBLIC AND WORKER SAFETY				
PWS 1	Heater Operating, SUS, and Emergency SD Procedure and Operator Training Program	CEC CPM	Procedure to also address errors that could result from operation of different heater designs by same personnel in same control room. Staff Training on these procedures.	
PWS 2	Yearly Status Reports	CEC CPM	Yearly Status Reports on Equipment Failures and effectiveness of inspection and maintenance procedures on critical systems.	
SAFETY & FIRE PROTECTION				
ISFP 1 IX PWFS 1	Safety plan	CEC CPM	Implement Safety Plan Provide access to project area, facilities & maintain records	Complete Ongoing
ISFP 2	Certificate of Occupancy		Obtain certificate from SBCFFW	Complete

2019 ANNUAL COMPLIANCE REPORT
SEGS VIII & IX

VI. CONDITIONS OF CERTIFICATION

COMPLIANCE REQUIREMENTS FOR SEGS VIII & SEGS IX				
				Date: February 07, 2016
CONDITION	ISSUE	SUBMIT TO	PERMIT REQUIREMENTS	STATUS
			Submit copy to CEC	Complete
PWFS 2 VIII ISFP p. 386	Fire protection element of safety plan Fire safety		Develop fire brigade training program Maintain fire-fighting equipment	Complete Ongoing
POWER PLANT RELIABILITY				
PPR 1	Preventive maintenance program		Inventory management plan Maintenance and repair training program	Complete Ongoing
PPR 2 VIII & IX	Operational Logs	CEC CPM	Maintain logs of equipment failure data & operational data for all major equipment Maintain monthly operational data	Ongoing
QUALIFYING FACILITY STATUS				
QFS 1 VIII & IX		CEC CPM	Operate facility in accordance with requirements of Title 18 CFR Continuously monitor total energy input	Ongoing

**2019 ANNUAL COMPLIANCE REPORT
SEGS VIII & IX**

VI. CONDITIONS OF CERTIFICATION

COMPLIANCE REQUIREMENTS FOR SEGS VIII & SEGS IX				
				Date: February 07, 2016
CONDITION	ISSUE	SUBMIT TO	PERMIT REQUIREMENTS	STATUS
TRANSMISSION LINE SAFETY & NUISANCE				
TLN 6 VIII & IX	Transmission line maintenance	CEC CPM	Keep transmission line pole sites free from rubbish Provide information about inspection, clean up & fire protection near poles	Ongoing Ongoing
FACILITY SECURITY & DECOMMISSIONING				
DC 1 VIII	Decommissioning	CEC CPM	File decommissioning plan	12 months before decommissioning
FS/DC 2 IX	Decommissioning	CEC CPM	File decommissioning plan in IX's 25th year of operation Pre-filing workshop with CEC	Ongoing, as required
FS/DC 3 IX	Decommissioning	CEC CPM	Obtain approval prior to decommissioning activities	12 months before decommissioning
FS/DC 1 IX	Updates to security & facility maintenance plan	CEC CPM	Submit updates to Plan, including the adequacy of the security/decommissioning fund	Ongoing
MISCELLANEOUS				

**2019 ANNUAL COMPLIANCE REPORT
SEGS VIII & IX**

VI. CONDITIONS OF CERTIFICATION

COMPLIANCE REQUIREMENTS FOR SEGS VIII & SEGS IX				
				Date: February 07, 2016
CONDITION	ISSUE	SUBMIT TO	PERMIT REQUIREMENTS	STATUS
N 1	Noise complaints		Develop noise complaints program	Complete
N 2	Public noise surveys	CEC	Conduct surveys & submit report	Complete
N 3	Occupational noise surveys	CEC	Conduct surveys & submit report	Complete
N 4	IC engine noise		Install mufflers	Complete
PCR 1-8	Paleontological & cultural resources		All surveys, plans & reports	Complete
PCR 7	Final paleontological resources report		Submit final report to CEC Submit final report to Paleo Library	Complete
PCR 13	Cultural resources found		Maintain files showing proof of cultural resource analysis	Complete
PCR 15	Final cultural resources report		Maintain on file	Complete
PCR 16	Agreements for cultural resource curation		Maintain on file	Complete
TT1	Transportation Permits submittal	CEC CPM	In Quarterly Reports notify the CEC of any Transportation Permits	
TT 5 IX			Sign agreement 60 days after CEC decision	Request to amend; COC pending

2019 ANNUAL COMPLIANCE REPORT
SEGS VIII & IX

VI. CONDITIONS OF CERTIFICATION

COMPLIANCE REQUIREMENTS FOR SEGS VIII & SEGS IX				
				Date: February 07, 2016
CONDITION	ISSUE	SUBMIT TO	PERMIT REQUIREMENTS	STATUS
	Agreement for reconstruction of Harper Lake Road			
TT7 VIII TT6 IX	Accident occurrences on the 4 San Bernardino roads	CEC CPM & SBCFCTD	Monitor and Report in Quarterly Reports traffic accident occurrences on the 4 roads. Report on current status of consultations with SBC Flood Control & Transportation Dept.	
TT 11 VIII	Railroad crossing gate/signal/light installation		Submit construction plan to CEC	Complete
TT 12	Maintenance Plan for Hoffman Road		Submit Hoffman Rd Maintenance Plan prior to Operations	
VR 1	Exterior color scheme for buildings		Submit color plan to CEC	Complete
VR 2	Light shielding		Install light shields and reposition lights	Complete
VR 3	Visual screening		Develop plan Submit plan to CEC Notify CEC after installation	CEC surveyed neighbors No changes required No installation necessary

Construction/Operation Schedule

2020 Operation Schedule

January

We anticipate firing heaters only for freeze protection during the month of January. This operation is necessary when the temperature of HTF in the system is less than, or equal to, 100° F. The heaters are fired until the HTF system temperature reaches approximately 300° F. The amount of gas budgeted for freeze protection is 1,500 kscf per plant. Solar field thermal collection is ongoing in anticipation of the upcoming peak season. Natural gas may be utilized for production, if it is deemed cost effective. SEGS VIII and SEGS IX will be out of service for maintenance outages in January.

February

We anticipate firing heaters only for freeze protection during the month of February. This operation is necessary when the temperature of HTF in the system is less than, or equal to, 100° F. The heaters are fired until the HTF system temperature reaches approximately 300° F. The amount of gas budgeted for freeze protection is 1,500 kscf per plant. Solar field thermal collection is ongoing in anticipation of the upcoming peak season. Power generation will be in solar only mode. Natural gas may be utilized for production, if it is deemed cost effective. SEGS VIII will have limited production due to steam generator tube bundle replacement.

March

We anticipate firing heaters only for freeze protection during the month of March. This operation is necessary when the temperature of HTF in the system is less than, or equal to, 100° F. The heaters are fired until the HTF system temperature reaches approximately 300° F. The amount of gas budgeted for freeze protection is 1,000 kscf per plant. Solar field thermal collection is ongoing in anticipation of the upcoming peak season. Power generation will be in solar only mode. Natural gas may be utilized for production, if it is deemed cost effective.

April

We anticipate firing heaters for several days during the month of April to ensure operational reliability of the heaters for the upcoming peak season. Solar field thermal collection is ongoing in anticipation of the upcoming peak season. Power generation will be in solar only mode, with the exception of the several days of heater testing. Natural gas may be utilized for production, if it is deemed cost effective.

May

We anticipate firing heaters at SEGS IX for several days during the month of May to ensure operational reliability of the heaters for the upcoming peak season. Power generation will be in solar only mode, with the exception of the several days of heater testing. Natural gas may be utilized for production, if it is deemed cost effective. SEGS VIII will be solar only.

June – July – August – September

During the peak season, heaters will be fired Monday through Friday to augment solar generation (hybrid mode) as required to attain 100% capacity during on-peak operating hours (1200 to 1800 hours). The estimated amount of gas (mmbtu) budgeted for each month is as follows:

2019 ANNUAL COMPLIANCE REPORT

VI. CONDITIONS OF CERTIFICATION

SEGS VIII & IX

<u>Month</u>	<u>SEGS VIII</u>	<u>SEGS IX</u>
June	0	27,635
July	0	29,658
August	0	31,789
September	0	45,444

October

We do not anticipate firing heaters during the month of October, but any natural gas remaining under the FERC limit of 25% may be utilized for production, if it is deemed cost effective. Power generation will be in solar mode only.

November

Power generation will be in solar mode only. We do not anticipate firing heaters during the month of November, but any natural gas remaining under the FERC limit of 25% may be utilized for production, if it is deemed cost effective. The heaters may be used for freeze protection during the month of November. This operation is necessary when the temperature of HTF in the systems is less than, or equal to, 100° F. The heaters are fired until the HTF system temperature reaches approximately 300° F. The amount of gas budgeted for freeze protection is 1,500 kscf per plant.

December

Power generation will be in solar only mode. We do not anticipate firing heaters during the month of December, but any natural gas remaining under the FERC limit of 25% may be utilized for production, if it is deemed cost effective. The heaters may be used for freeze protection during the month of December. This operation is necessary when the temperature of HTF in the systems is less than, or equal to, 100° F. The heaters are fired until the HTF system temperature reaches approximately 300° F. The amount of gas budgeted for freeze protection is 1,500 kscf per plant.

2019 ANNUAL COMPLIANCE REPORT

VI. CONDITIONS OF CERTIFICATION

SEGS VIII & IX

Facility Changes

There were no changes to the facility during the 2019 calendar year.

2019 ANNUAL COMPLIANCE REPORT

VI. CONDITIONS OF CERTIFICATION

SEGS VIII & IX

2019 Elapsed Submittals

To the best of our knowledge all submittal deadlines were met during the 2019 calendar year.

Filings with Other Governmental Agencies

2019 Additional Filings

The following is a summary of the filings made during 2019 with governmental agencies having permitting authority over the SEGS VIII and IX projects.

- All quarterly semi-annual and annual reporting was submitted on schedule in 2019 to the Mojave Desert Air Quality Management District, the California Regional Water Quality Control Board-Lahontan Region, and the Mojave Basin Area Watermaster.
- All permit renewals and fees were submitted on schedule in 2019, to the San Bernardino County Fire Department, the Environmental Health Services, the Environmental Public Works Agency, the Mojave Desert Air Quality Management District, the State Board of Equalization, the Lahontan Regional Water Quality Control Board, and the San Bernardino County Fire Warden.
- The Emissions Compliance and Monitor Certification Testing Report was submitted to the Mojave Desert Air Quality Management District on schedule in September 2019.

2019 ANNUAL COMPLIANCE REPORT

VI. CONDITIONS OF CERTIFICATION

SEGS VIII & IX

Onsite Compliance File – Additions / Deletions

Annual

DOCUMENT DATE	FROM	TO	SUBJECT
January	LSP	MBA Watermaster	Q1 Water Production Report
January	MDAQMD	LSP	E003940 Updated Permit - Diesel FP Complex
January	LSP	MDAQMD	Q4 Emissions Report
January	LSP	RWQCB	2nd Semi-annual MonRep
January	LSP	CEC	Q4 BRMIP
February	CA DIR DOSH PVU	LSP	Permit to Operate Steam Boiler
February	MDAQMD	LSP	CEI Submission
February	SW Sealcoating	LSP	Bill of Lading – Mag Chloride
April	LSP	MBA Watermaster	Q2 Water Production Report
April	LSP	MDAQMD	Q1 Emissions Report
April	LSP	CEC	Q1 BRMIP
May	LSP	MDAQMD	Title V Semiannual Report
June	LSP	State Water Resources Co	Annual Storm Water Report
June	LSP	RWQCB	Semi-annual Mon Rep
July	LSP	MBA Watermaster	Q3 Water Production Report
July	Pump Check	LSP	Well Pump/Meter Test Results
July	LSP	MDAQMD	Q2 Emissions Report
July	LSP	CEC	Q2 BRMIP
September	SBCoFd	LSP	Annual CUPA Permit
September	LSP	MDAQMD	RATA Report
October	LSP	MBA Watermaster	Q4 Water Production Report
October	LSP	CEC	Q3 BRMIP
October	LSP	MDAQMD	Q3 Emissions Report
November	LSP	MDAQMD	Title V Annual Semiannual Report

2019 ANNUAL COMPLIANCE REPORT

VII. WATER RESOURCES / WATER

SEGS VIII & IX

Lahontan Regional Water Quality Control Board Annual Report

The Second Semi-Annual 2019 Monitoring Report was submitted under separate cover.

Waste Discharge Requirements

The Waste Discharge Requirements were included in the 2000 Annual Compliance Report to the California Energy Commission.

The waste discharge requirements as issued by the Lahontan Regional Water Quality Control Board under Board Order #6-98-74 remain in effect and were unchanged during the 2019 calendar year.

2019 ANNUAL COMPLIANCE REPORT

VII. WATER RESOURCES / WATER

SEGS VIII & IX

Production Well Data

Depth to Groundwater Measurements

Well Number	State Well Number	Date of Measurement	Depth to Water (feet)	Approximate Surface Elevation (feet msl)	Approximate Water Elevation (feet msl)	Comments
P34	11N/4W-19E	8/22/2019	161.3	2058	1895	
P35	11N/4W-19E	8/22/2019	162.2	2058	1892	
P36	11N/4W-19Q	8/22/2019	151.5	2058	1904	
P40	11N/4W-19J	8/22/2019	133.1	2039	1905	

Production Well Pumping Rate

Well Number	State Well Number	Average Well Pumping Rate (gallons per minute)
P34	11N/4W-19E	114
P35	11N/4W-19E	641
P36	11N/4W-19Q	762
P40	11N/4W-19J	1131

Production Well Total Annual Extractions

Well Number	State Well Number	Annual Extraction Amount (acre-feet)
P34	11N/4W-19E	.21
P35	11N/4W-19E	611.19
P36	11N/4W-19Q	55.32
P40	11N/4W-19J	234.79

2019 ANNUAL COMPLIANCE REPORT

VII. WATER RESOURCES / WATER

SEGS VIII & IX

Condition of Certification – WATER-8

Luz Solar Partners VIII & IX have implemented measures adequate to protect adjacent private property from flooding, scouring, and erosion as a result of the operation of the SEGS Unit VIII and SEGS Unit IX and have fully complied with the SEGS Unit VIII Condition of Certification WATER-8 during the calendar year 2019.

Luz Solar Partners VIII & IX did not perform any road maintenance or other required repairs on adjacent properties in the 2019 calendar year since there were no damages to adjacent properties as a result of flooding, scouring, or erosion.

Decommissioning Fund

Luz Solar Partners VIII & IX have continued to assess the potential regional market for willing purchasers of the Heat Transfer Fluid (HTF) for use as a fuel source.

Luz Solar Partners IX filed a preliminary decommissioning plan with the CEC in compliance with FS/DC Condition 2.

2019 ANNUAL COMPLIANCE REPORT

IX. TRAFFIC AND TRANSPORTATION

SEGS VIII & IX

Proof of Pollution Insurance

Traffic and Transportation Road Monitoring

Conditions of Certification – TRANS-7 (VIII) & TRANS-6 (IX)

Luz Solar Partners VIII & IX has record of no accidents on Harper Lake, Hoffman, and Lockhart Roads, and Santa Fe Avenue during the 2019 calendar year involving SEGS VIII & IX Operations. As a result of this monitoring, no further mitigation measures were proposed by Luz Solar Partners VIII & IX in 2019.