DOCKETED	
Docket Number:	88-AFC-01C
Project Title:	Compliance - Application for Certification for LUZ Solar Electric Generating Systems Cogeneration Unit VIII
TN #:	231201
Document Title:	88-AFC-1 PWS 2 & 89-AFC-1 PWS 2 - SEGS VIII & IX 2018 CEC Annual Report
Description:	N/A
Filer:	Neal Davies
Organization:	Terra-Gen Operating Compnay
Submitter Role:	Applicant
Submission Date:	12/13/2019 9:54:08 AM
Docketed Date:	12/13/2019



February 07, 2019

Leonidas Payne 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 2018 Annual Compliance Report

Dear Mr. Payne:

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, 2018 through December 31, 2018, per the revised Annual Reporting Requirements.

If you have any questions, or need additional information, please contact Joe Faubus at (760) 762-3100, ext. 231.

Sincerely,

Robert Fimbres
Site Manager

LUZ Solar Partners

VIII & IX

2018 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

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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

Mojave Desert Air Quality Management District Correspondence

2018 MDAQMD Correspondence Summary

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

Mojave Desert Air Quality Management District HTF Heater Permit to Operate

2018 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 2019

OWNER OR OPERATOR (Co.#603)

EQUIPMENT LOCATION (Fac. #975)

Luz Solar Partners LTD VIII 1400 Centrepark - S 600 West Palm Beach, FL 33401 Harper Lake Co. VIII & IX 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 radient 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.

a) The average hourly emission for Nox and CO shall be reported per the approved monitoring plan. The average hourly rate

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

Brad Poiriez

Air Pollution Control Officer

Page 1 of 2 Permit: B002013 Issue Date: 03/12/2018

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 requiremtns 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@mdagmd.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.

Page 2 of 2 Permit: B002013 Issue Date: 03/12/2018



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 2019

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.

a) The average hourly emission for Nox and CO shall be reported per the approved monitoring plan. The average hourly rate

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.

Page 1 of 2

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

Brad Poiriez

Air Pollution Control Officer

Permit: B002016

Issue Date: 04/25/2018

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).

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- 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.

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- 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.

Page 2 of 2 Permit: B002016 Issue Date: 04/25/2018

Dust Suppressant Application Verification

2018 Dust Suppressant Application

Based on visual observations in 2018, dust suppression was not required. Further monitoring will be performed and dust suppression will be applied as required.

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 16, 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.

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

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 2018:

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

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.

2018 Non-Hazardous Waste Summary

Waste Type	Quantity (tons)	Disposal Me	ethod and Facility
Clarifier Sludge Cake	5.30	Recycle	Helendale, CA
Clarifier Sludge Cake	8.66	Recycle	Helendale, CA
Clarifier Sludge Cake	18.46	Recycle	Helendale, CA
Clarifier Sludge Cake	23.07	Recycle	Helendale, CA
Clarifier Sludge Cake	18.69	Recycle	Helendale, CA
Clarifier Sludge Cake	17.08	Recycle	Helendale, CA
Clarifier Sludge Cake	22.85	Recycle	Helendale, CA
Clarifier Sludge Cake	23.52	Recycle	Helendale, CA
Clarifier Sludge Cake	22.35	Recycle	Helendale, CA
Clarifier Sludge Cake	18.14	Recycle	Helendale, CA
Clarifier Sludge Cake	13.26	Recycle	Helendale, CA
Clarifier Sludge Cake	18.61	Recycle	Helendale, CA
Clarifier Sludge Cake	16.31	Recycle	Helendale, CA
Clarifier Sludge Cake	18.21	Recycle	Helendale, CA
Clarifier Sludge Cake	19.16	Recycle	Helendale, CA
Clarifier Sludge Cake	22.12	Recycle	Helendale, CA
Clarifier Sludge Cake	24.88	Recycle	Helendale, CA

2018 Hazardous Waste Summary

Waste Type	Quantity (tons)	Disposal Method an	d Facility
Cooling Tower Fill	3.23	Landfill	Parker, AZ
Cooling Tower Fill	3.73	Landfill	Parker, AZ
Cooling Tower Fill	3.70	Landfill	Parker, AZ
Cooling Tower Fill	2.38	Landfill	Parker, AZ
Cooling Tower Fill	4.57	Landfill	Parker, AZ
Cooling Tower Fill	4.73	Landfill	Parker, AZ
Cooling Tower Fill	6.52	Landfill	Parker, AZ
Cooling Tower Fill	5.63	Landfill	Parker, AZ
Cooling Tower Fill	4.78	Landfill	Parker, AZ
Cooling Tower Fill	4.89	Landfill	Parker, AZ
Cooling Tower Fill	6.48	Landfill	Parker, AZ
Cooling Tower Fill	3.88	Landfill	Parker, AZ
Cooling Tower Fill	2.68	Landfill	Parker, AZ
Cooling Tower Fill	3.47	Landfill	Parker, AZ
Cooling Tower Fill	3.49	Landfill	Parker, AZ
Cooling Tower Fill	5.58	Landfill	Parker, AZ
Cooling Tower Fill	5.85	Landfill	Parker, AZ
Cooling Tower Fill	3.42	Landfill	Parker, AZ
Cooling Tower Fill	3.52	Landfill	Parker, AZ
Cooling Tower Fill	4.03	Landfill	Parker, AZ
Cooling Tower Fill	3.84	Landfill	Parker, AZ
Cooling Tower Waste Liquid	14.98	Landfill	Wellton, AZ
Cooling Tower Fill	3.80	Landfill	Parker, AZ
Cooling Tower Fill	6.17	Landfill	Parker, AZ
Cooling Tower Waste Liquid	9.33	Landfill	Wellton, AZ
Cooling Tower Fill	3.87	Landfill	Parker, AZ
Cooling Tower Fill	15.13	Landfill	Parker, AZ
Cooling Tower Fill	4.13	Landfill	Parker, AZ
Oil Contaminated Debris	0.82	Landfill	Buttonwillow, CA
Cooling Tower Fill	5.42	Landfill	Parker, AZ
Cooling Tower Fill	8.85	Landfill	Parker, AZ
Used Antifreeze (Ethylene Glycol Solution)	0.208	Recycle	Fontana, CA
Used Oil	0.38	Recycle	Fontana, CA
Oily Water with HTF	13.90	Recycle	Compton, CA
Oil Contaminated Debris	0.271	Landfill	Buttonwillow, CA
Oily Water with HTF	18.010	Recycle	Compton, CA
Oily water with HTF	17.200	Recycle	Compton, CA

2018 ANNUAL COMPLIANCE REPORT

II. BIOLOGICAL RESOURCES / WASTE MANAGEMENT

SEGS VIII & IX

Oily Water with HTF	13.850	Recycle	Compton, CA
Oily Water with HTF	16.560	Recycle	Compton, CA
Used Oil	2.139	Recycle	Fontana, CA
Mirror Glass Contaminated With Lead	10.420	Landfill	Beatty, NV
Oily Water with HTF	17.325	Recycle	Compton, CA
Mirror Glass Contaminated With Lead	11.010	Landfill	Beatty, NV
Oil Contaminated Debris	0.690	Landfill	Buttonwillow, CA
Oily Water with HTF	20.213	Recycle	Compton, CA
Oil Contaminated Debris	0.550	Landfill	Buttonwillow, CA
Mirror Glass Contaminated With Lead	3.130	Landfill	Beatty, NV
Used Oil	0.725	Recycle	Fontana, CA

2018 ANNUAL COMPLIANCE REPORT

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 2018 calendar year.

2018 ANNUAL COMPLIANCE REPORT II. BIOLOGICAL RESOURCES / WASTE MANAGEMENT

SEGS VIII & IX

2018 Heat Transfer Fluid Waste Manifests

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WASTE MANIFEST 5. Generator's Name and Mailing Address Generatory Generator's Name and Mailing Address	tor's Site Address				<u> </u>	/1 ~
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Generator's Phone: 6. Transporter 1 Company Name		<u>. 1 1</u>	U.S. EPAID N	lumber	Ø1168	<u></u>
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7, Transporter 2 Company Name		ing a sangan ang pangan ang panga Pangan pangan ang pang	U.S. EPA ID N	iumber		
8. Designated Facility Name and Site Address Clean Harbors-Buttonwillow			U.S. EPA ID N	lumber		
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Facility's Phone:			il and an			
9a. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number,	10. Contai	ners	11. Total	12. Unit	13. Waste Code	
HM and Packing Group (if any))	No.	Туре	Quantity	Wt./Vol.	Id. Wasie Code	
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15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully	and accurately de	secribed above	by the proper st	inning name	and are classified back	aned.
marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable in	ternational and na	tional governm	ental regulations	. If export ship	ment and I am the Prim	ary .
Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgme	nt of Consent.	1.75 (1.75)				
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) Generator's/Offeror's Printed/Typed Name // Signature		all quartity ge	ilerator) is true.		Month Day	Y
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7.Ng.,

Signature

Printed/Typed Name

OPTIA

Month

Year

2018 ANNUAL COMPLIANCE REPORT

SEGS VIII & IX

Heat Transfer Fluid Shipments

There were no HTF shipments to the SEGS VIII and IX facilities in 2018.

2018 ANNUAL COMPLIANCE REPORT II. BIOLOGICAL RESOURCES / WASTE MANAGEMENT

SEGS VIII & IX

BLM Habitat Well Water Usage



11N05W24P02

1N05W24Q02

WELL #38

WELL "D"

Joe Faubus

Annual Verification Report Form

Invoice #:

Printed on: 09/27/2018

41035

and

Invoice for Administrative & Biological Assessments 4th Quarter (July 1 - September 30) 2017-18 Water Year

Account Numb	er: HAR004P Subarea:	Centro	Fre		on Allowance (F) ior Year Carryo	•	1,147 Ac-ft 957 Ac-ft
				I. I.			
Harper Lake C	ompany VIII				FPA Transfer		. 0 Ac-ft
F	Fy ·				FPA Transfers (Out:	0 Ac-ft
43880 Harper I	Lake Road			Car	ryover Transfer	s In:	0 Ac-ft
•				Carry	over Transfers (Out:	0 Ac-ft
Hinkley, CA 92	2347			-			
• .				7	Total Adjusted F	TA:	2,104 Ac-ft
State Well Number	Local Well Designation	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter Production	Current Well Status*	Estimated . Annual Production
11N04W19E01	WELL #34	.01	0.00	0.00	,02	Α	0.03
11N04W19E02	WELL #35	112.04	87.39	210.31	268.66	Α	678.4
11N04W19J01	WELL #40	6.81	18,73	114.04	136.59	Α	276.17
11N04W19Q02	WELL #36 '	4,01	1.17	14.28	37.66	A	57.12
11N04W28R01	BLM Habitat Well	0.00	0.00	0.00	Ø	A	B
11N04W28R02	BLM Habitat Well #02	15.92	10.65	21,12	25.67	Α	73.36
11N05W24L01	WELL #37	0.00	0.00	0,00	gs	I	Ø

0.00

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0.00

43880 Harper Lake Rd.

* A=Active 138.79 117,94 359.75 I=Inactive S=Sold D=Destroyed Administrative Assessment @ \$ 3.55 per Ac-Ft L=Leased(Production x \$ 3.55) B=AbandonedBiological Assessment @ \$ 0.91 per Ac-Ft U=Unknown (Production x \$ 0.91) M=Monitoring T=Standby Total Amount Due 2,089.96

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

Contact 760-762-3100 Ext. 231	Mailing Address Hinkley	s CA	92347
Phone	City	State	Zip Code
I declare under penalty of perjury th	at the foregoing informa	tion is true an	d correct:
	Harper Lake	Company / V	(II
	Company	77.1	
Individual '	Company Agent		
	10-02-2018		
Date	Date		

Payment is due and payable October 31, 2018.

2018 ANNUAL COMPLIANCE REPORT II. BIOLOGICAL RESOURCES / WASTE MANAGEMENT

SEGS VIII & IX

2018 BRMIP Statement of Compliance



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

January 10, 2019

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, 2018, to December 31, 2018, 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. Einter

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 2018.

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 2018.

Condition 6

LUZ Solar Partners VIII and IX maintained each transmission line pole site free of waste material and rubbish for the calendar year 2018.

2018 ANNUAL COMPLIANCE REPORT

SEGS VIII & IX

Transmission Line Inspection

2018 Inspection

The transmission line between the Harper Lake facilities and Kramer Junction was inspected in May 2018. The transmission line poles were free of waste material and rubbish.

IV. DIESEL FUEL DATA SEGS VIII & IX

Diesel Fuel Data

2018 Diesel Fuel Purchases provided under separate cover.

2018 Facility Status

SEGS VIII

Power OutputPrimary EnergyNatural Gas Use161,785 Gross MWh1.548,921 mmbtu215,237 mmbtu

SEGS IX

Power OutputPrimary EnergyNatural Gas Use170,092 Gross MWh1,641,394 mmbtu190,729 mmbtu

Power Plant Reliability

SEGS VIII - 2018 Production Data

	Net Electrical Production	Month	ly Capacity	Plant Availability	
	(MWh)	On-	Mid-	Off-	
		Peak	Peak	Peak	
Jan	522		0.0%	0.0%	8%
Feb	7,065		0.0%	0.0%	100%
Mar	9,365		34.6%	12.2%	100%
Apr	12,538		45.5%	17.1%	100%
May	17,293		61.7%	24.7%	99%
Jun	24,591	102.9%	36.6%	33.9%	100%
Jul	20,494	98.8%	24.7%	27.3%	100%
Aug	21,134	100.0%	33.9%	15.8%	99%
Sep	19,536	100.3%	32.1%	20.2%	100%
Oct	9,604	0.0%	38.0%	14.0%	100%
Nov	3,410		16.1%	84.9%	99%
Dec	2,726		6.9%	5.2%	100%
Year	1,979,395				_

SEGS IX - 2018 Production Data

	Net Electrical Production	Monthly Capacity Factors			Plant Availability
	(MWh)	On-Peak	Mid- Peak	Off-Peak	
Jan	510		0.0%	0.0%	8%
Feb	7,677		0.0%	0.0%	100%
Mar	9,890		37.1%	12.4%	100%
Apr	13,549		49.2%	18.5%	100%
May	17,041		59.3%	25.8%	98%
Jun	24,519	101.6%	37.2%	33.5%	99%
Jul	20,785	98.6%	24.8%	28.7%	100%
Aug	21,812	100.5%	36.4%	16.6%	100%
Sep	20,331	100.3%	34.2%	21.9%	100%
Oct	9,641	0.0%	41.7%	15.4%	100%
Nov	4,196		19.0%	117.7%	100%
Dec	3,302		8.3%	6.3%	100%
Year	2,022,851				

2018 ANNUAL COMPLIANCE REPORT SEGS VIII & IX

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		

COMPLIANCE REQUIREMENTS FOR SEGS VIII & SEGS IX Date: February 07, 2016 CONDITION PERMIT REQUIREMENTS ISSUE **SUBMIT STATUS** TO AQ1-6 PM10 control Treat roads with magnesium chloride See AQ 1-4 Complete AQ 1-7 Source test protocol for Submit protocol for measuring PM101 cooling tower Comply with requirements in cooling Complete AQ 1-8 Test requirements for cooling tower tower source tests Collect SEGS VIII data, AQ 1-10 Report occasions when NO_x >300 Complete $NO_x > 300 lb/day data$ 1b/day from 3/1/90 to 12/31/92 collection Comply with all applicable rules of AQ 1-11 Applicable district rules CEC Ongoing **SBCAPCD** VIII & IX Annual report Ongoing CEC AQ 1-12 Other applicable rules Compliance with applicable federal Ongoing VIII & IX and State rules Quarterly report Ongoing AQ 1-13 Permit conditions **MDAOMD** Any changes to MDAQMD required Ongoing, as required emission controls subject to review VIII & IX CEC AQ 1-14 **BACT** requirement **MDAQMD** Specifies emission limits Ongoing VIII & IX AQ 1-15 Design changes **MDAQMD** Modification to heaters requires Ongoing, as required MDAQMD approval VIII & IX CEC

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

	COMPLIANCE REQUIREMENTS FOR SEGS VIII & SEGS IX					
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		

	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		

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	

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	
		BIO	LOGICAL 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	
BR 2			Submit signs, letters, etc. to the CEC	Complete	

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

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	

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	

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

	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		

COMPLIANCE REQUIREMENTS FOR SEGS VIII & SEGS IX					
		Date: February 07, 2016			
CONDITION	ISSUE	SUBMIT TO	PERMIT REQUIREMENTS	STATUS	
		W	VATER 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	

COMPLIANCE REQUIREMENTS FOR SEGS VIII & SEGS IX Date: February 07, 2016 **CONDITION ISSUE** PERMIT REQUIREMENTS **SUBMIT STATUS** TO IX WDR for cooling tower WR 5 blowdown VIII WR7 Erosion control plan Submit plan to CEC Complete VIII Ongoing, as required WR8 Water Quality Notification of changes in LRWQCB CEC IX CPM **WDRs** WR 6 **LRWQCB** Quarterly reports Ongoing Submit status of current WDRs Ongoing, as required VIII WR8 Flood Hazard CEC Protect adjacent private property from Complete CPM flooding, scouring & erosion as result VIII of operations Ongoing, as required Submit Annual statement in Annual Compliance Report describing any maintenance or repairs on adjacent private property due to flooding, scouring, erosion WR9 Protect land from runoff for Construct dike along north boundary Complete 25-year (not 100) storm of Section 13 Prepare as-builts Complete WR 10 Water flow easements Obtain easements or provide flood Complete IX protection WR 12 & 13 VIII

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		

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

	COMPLIANCE REQUIREMENTS FOR SEGS VIII & SEGS IX							
				Date: February 07, 2016				
CONDITION	ISSUE	SUBMIT TO	PERMIT REQUIREMENTS	STATUS				
		WA	ASTE 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				

WM 10

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

	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					
		PUBLI	C 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. Sta Training on these procedures.		could result from operation of different heater designs by same personnel in same control room. Staff						
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					

	COMPLIANCE REQUIREMENTS FOR SEGS VIII & SEGS IX								
	Date: February 07, 2016								
CONDITION	ISSUE	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					
		POWE	ER 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					

	COMPLIANCE REQUIREMENTS FOR SEGS VIII & SEGS IX									
	Date: February 07, 2016									
CONDITION	ISSUE	PERMIT REQUIREMENTS	STATUS							
	TRANSMISSION LINE SAFETY & NUISANCE									
TLSN 6 VIII & IX										
	I	FACILITY SE	CURITY & 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	Ongoing								
			MISCELLANEOUS							

	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				

	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	VIII Accident occurrences on the TT6 4 San Bernardino roads		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.				
			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	VR 2 Light shielding VR 3 Visual screening		Install light shields and reposition lights	Complete			
VR 3			Develop plan Submit plan to CEC Notify CEC after installation	CEC surveyed neighbors No changes required No installation necessary			

Construction/Operation Schedule

2019 Operation Schedule

<u>January</u>

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 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.

<u>June – July – August – September</u>

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:

2018 ANNUAL COMPLIANCE REPORT

VI. CONDITIONS OF CERTIFICATION

SEGS VIII & IX

<u>Month</u>	SEGS VIII	SEGS IX
June	32,814	27,635
July	35,197	29,658
August	45,484	31,789
September	54,583	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 then, 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 then, 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.

SEGS VIII & IX

Facility Changes

There were no changes to the facility during the 2018 calendar year.

SEGS VIII & IX

2018 Elapsed Submittals

To the best of our knowledge all submittal deadlines were met during the 2018 calendar year.

Filings with Other Governmental Agencies

2018 Additional Filings

The following is a summary of the filings made during 2018 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 2018 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 2018, 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 November 2018.

2018 ANNUAL COMPLIANCE REPORT

SEGS VIII & IX

Lahontan Regional Water Quality Control Board Annual Report

The Second Semi-Annual 2018 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 2018 calendar year.

Production Well Data

Depth to Groundwater Measurements

	State			Approximate	Approximate	
Well	Well	Date of	Depth	Surface	Water	
			to	Elevation	Elevation	
			Water			
Number	Number	Measurement	(feet)	(feet msl)	(feet msl)	Comments
P34	11N/4W-	8/7/2018	163	2058	1895	
	19E					
P35	11N/4W-	8/7/2018	165.7	2058	1892	
	19E					
P36	11N/4W-	8/7/2018	153.8	2058	1904	
	19Q					
P40	11N/4W-	8/7/2018	134.2	2039	1905	
	19J					

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	613
P36	11N/4W-19Q	754
P40	11N/4W-19J	1146

Production Well Total Annual Extractions

Well Number	State Well Number	Annual Extraction Amount (acre-feet)
P34	11N/4W-19E	.02
P35	11N/4W-19E	678.16
P36	11N/4W-19Q	56.03
P40	11N/4W-19J	273.37

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 2018.

Luz Solar Partners VIII & IX did not perform any road maintenance or other required repairs on adjacent properties in the 2018 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.

Proof of Pollution Insurance



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 09/07/2017

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed.

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PROI MCC	DUCER GRIFF, SEIBELS & WILLIAMS, INC. Box 10265	o tine de	Standard Holder III lied of St	CONTACT NAME: PHONE (A/C, No, Ext): E-MAIL ADDRESS: ADDRESS:						
	ingham, AL 35202									
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ATTI	ATTN: ERICA MCNABB				RD:					
	UNIVERSE BOULEVARD O BEACH, FL 33408			INSURE						
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	OTHER:								\$	
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	DED RETENTION\$								\$	
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	AND EMPLOYERS CHABLETTY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED?	N/A					E.L. EACH ACCIDE	NT	\$	
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Α	Pollution Liability		37311426		09/15/2017	09/15/2018	Limit Each Incide Aggregate Limit	ent	\$ \$ \$	1,000,000 1,000,000
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	CRIPTION OF OPERATIONS / LOCATIONS / VEHICL ificate holder is included as additional insur	•				e space is require	ed)			
CEF	RTIFICATE HOLDER			CANO	ELLATION					
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	fornia Energy Commission Siting, Transmis	ssion & E	Environmental Protection	AUTHO	RIZED REPRESE	NTATIVE		$\overline{}$		
1516	(STEP) Division 1516 9th Street, MS-2000 Sacramento, CA 95814				AUTHORIZED REPRESENTATIVE ASTRONOMY					

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 2018 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 2018.