

**DOCKETED**

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<b>Project Title:</b>	Genesis Solar Energy Project
<b>TN #:</b>	249527
<b>Document Title:</b>	2022 Annual Compliance Report
<b>Description:</b>	N/A
<b>Filer:</b>	Maria E Lopez
<b>Organization:</b>	NextEra Energy
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March 30, 2023

Anwar Ali, Compliance Project Manager  
California Energy Commission  
15169<sup>th</sup> Street  
Sacramento, CA 95814

**RE: Genesis Solar Energy Center DOCKET NUMBER 09-AFC-08C  
Annual Compliance Report for Reporting Year 2022**

Dear Mr. Ali,

Pursuant to condition Compliance-7 of the Commission Decision for the Genesis Solar Energy Project, enclosed please find the Annual Compliance Report for the reporting year 2022.

Please call me if you have any questions at (760) 373-6729.

Sincerely,

*Maria Elena Lopez*

Maria Elena Lopez  
Sr. PGD Environmental Specialist

Genesis Solar, LLC

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GENESIS SOLAR ENERGY CENTER  
**California Energy Commission Docket #09-AFC-08C**  
**Annual Report for Reporting Year 2022**

**Current Operating Status and Significant Changes to Facility Operations**

The Genesis Solar, LLC facility experienced no operational outages or interruptions in service or any significant operational changes during the reporting year.

**Modifications and Testing**

During the stated period, the plant completed required testing for emissions compliance. All results were submitted to the MDAQMD and the California Energy Commission Compliance Manager.

**Environmental Health and Safety**

Genesis Solar, LLC was injury free in 2022. There were 98,732 total man hours worked in 2022.

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# Section 1

## **AQ-3 Aux Boilers Emissions Testing**

*Emissions from this equipment shall not exceed the following hourly emission limits at any firing rate, verified by fuel use and annual compliance tests:*

- a. NO<sub>x</sub> as NO<sub>2</sub>: 0.330 lb/hr operating at 100% load (based on 9.0 ppmvd corrected to 3% O<sub>2</sub> and averaged over one hour)
- b. CO: 0.563 lb/hr operating at 100% load (based on 50 ppmvd corrected to 3% O<sub>2</sub> and averaged over one hour)
- c. VOC as CH<sub>4</sub>: 0.088 lb/hr operating at 100% load
- d. SO<sub>x</sub> as SO<sub>2</sub>: 0.008 lb/hr operating at 100% load
- e. PM<sub>10</sub>: 0.150 lb/hr operating at 100% load

**Verification:** *Submit emissions compliance documentation in annual compliance report.*

Summaries of the Auxiliary Boilers emissions test results are presented below:

**TABLE 1-1  
RESULTS SUMMARY  
GENESIS SOLAR, LLC  
AUXILIARY BOILER NO. 1  
APRIL 19, 2022**

Parameter/Units	Aux Boiler No. 1	Limit
<b>NO<sub>x</sub></b>		
lb/hr	0.174	0.330
ppm @ 3% O <sub>2</sub>	5.78	(9) <sup>(1)</sup>
<b>CO</b>		
lb/hr	0.0 <sup>(2)</sup>	0.563
ppm @ 3% O <sub>2</sub>	0.0 <sup>(2)</sup>	(50) <sup>(1)</sup>
<b>Particulate Matter, lb/hr</b>	0.074	0.150
<b>SO<sub>x</sub>, lb/hr</b>	0.003	0.008
<b>VOCs, lb/hr</b>	0.019	0.088
<b>Opacity, %</b>	0%	20%

(1) Basis of lb/hr limit

(2) Test result below limits of quantitation for test method

**TABLE 1-1  
RESULTS SUMMARY  
GENESIS SOLAR, LLC  
AUXILIARY BOILER NO. 2  
APRIL 20, 2022**

Parameter/Units	Aux Boiler No. 2	Limit
<b>NO<sub>x</sub></b>		
lb/hr	0.097	0.330
ppm @ 3% O <sub>2</sub>	3.97	(9) <sup>(1)</sup>
<b>CO</b>		
lb/hr	0.0 <sup>(2)</sup>	0.563
ppm @ 3% O <sub>2</sub>	0.0 <sup>(2)</sup>	(50) <sup>(1)</sup>
<b>Particulate Matter, lb/hr</b>	0.023	0.150
<b>SO<sub>x</sub>, lb/hr</b>	0.003	0.008
<b>VOCs, lb/hr</b>	0.005	0.088
<b>Opacity, %</b>	0%	20%

(1) basis of lb/hr limit

(2) test result below limits of quantitation for test method

## Section 2

### AQ-5 Aux Boilers Hours of Use

**Verification:** *The project owner shall submit to the CPM the boiler hours of use records demonstrating compliance with this condition as part of the Annual Operation Report.*

Daily operational hours for each Auxiliary Boiler are maintained at the facility. The table below summarizes the monthly hours for 2022.

Aux Boiler		U1	U2
Year	Month	Hours	Hours
2022	1	27.88	29.68
	2	0.00	4.80
	3	0.00	0.00
	4	9.70	8.94
	5	0.00	0.00
	6	0.00	0.00
	7	0.00	0.00
	8	4.38	8.10
	9	42.28	41.20
	10	0.00	0.00
	11	1.58	1.22
	12	34.43	14.68
<b>Totals</b>		<b>120.25</b>	<b>108.62</b>

## Section 3

### **AQ-10 HTF Ullage Vessels' Carbon Adsorption System**

*This system shall be operated at all times with the carbon adsorption system as follows:*

- a. The carbon adsorption system shall provide 98% control efficiency of VOC emissions vented from the HTF ullage system.*
- b. The project owner shall prepare and submit a monitoring and change-out plan for the carbon adsorption system which ensures that the system is operating at optimal control efficiency at all times for District approval prior to start up.*
- c. This equipment shall be properly maintained and kept in good operating condition at all times.*
- d. This equipment must be in use and operating properly at all times the HTF ullage system is venting.*
- e. Total emissions of VOC to the atmosphere shall not exceed 1.5 lbs/day and 540 lbs/year calculated based on the most recent monitoring results.*
- f. During operation, the project owner shall monitor VOC measured at outlet from the carbon beds. Sampling is to be performed on a weekly basis. Samples shall be analyzed pursuant to U.S.EPA Test Method 25 – Gaseous Non-Methane Organic Emissions. Initial test shall be submitted to the District within 180 days after startup.*
- g. FID shall be considered invalid if not calibrated on the day of required use.*
- h. The project owner shall maintain current and on-site for the duration of the project a log of the weekly test results, which shall be provided to District personnel upon request, with date and time the monitoring was conducted.*
- i. Prior to January 31 of each new year, the project owner of this unit shall submit to the District a summary report of all VOC emissions (as hexane).*

**Verification:** *The project owner shall submit information demonstrating compliance with the substantive and recordkeeping provisions of this condition in the Annual Compliance Report.*

The facility maintains a log of the carbon absorption system VOC monitoring test results on site. Annual Emissions Compliance Testing was performed in 2022 and the results are summarized below.

#### 4.0 TEST RESULTS

The results show that the unit was operating below permitted levels for all species where limits are given in the permit. The results of the tests are presented in the following tables.

**TABLE 4-1  
NORTH VENT VOC RESULTS**

Run	Total Non-methane/ethane Hydrocarbons, ppm as Methane	Stack Flow, dscfm (average of Pre- & Post-)	Total Non-Methane/Ethane Hydrocarbons, lb/hr as Methane	Hours/day	Total Non-Methane/Ethane Hydrocarbons, lb/day as Methane
North - Run 1	<1.2	1396	<0.004	24	<0.10
North - Run 2	15.0	1392	0.052	24	1.25
North - Run 3	30.0	1394	0.104	24	2.50
Average	<15.4	1394	<0.054	24	1.28
				Limit	1.5

**TABLE 4-2  
SOUTH VENT VOC RESULTS**

Run	Total Non-methane/ethane Hydrocarbons, ppm as Methane	Stack Flow, dscfm	Total Non-Methane/Ethane Hydrocarbons, lb/hr as Methane	Hours/day	Total Non-Methane/Ethane Hydrocarbons, lb/day as Methane
South - Run 1	<1.2	1444	<0.004	24	<0.10
South - Run 2	<1.3	1442	<0.005	24	<0.11
South - Run 3	<1.2	1440	<0.004	24	<0.10
Average	<1.2	1442	<0.004	24	<0.11
				Limit	1.5

**TABLE 4-3  
 NORTH VENT BENZENE RESULTS**

Run	Lab Result or Sample Reporting Limit, ppbv	Stack Flow, dscfm	Benzene lbs/hr	Hours/day	Benzene, lb/day
North - Run 1	0.00048	1396	0.0000081	24	0.00020
North - Run 2	0.00040	1392	0.0000068	24	0.00016
North - Run 3	0.00048	1394	0.0000081	24	0.00020
Average	0.00045	1394	0.0000077	24	0.00018
				Limit	0.6

**TABLE 4-4  
 SOUTH VENT BENZENE RESULTS**

Run	Lab Result or Sample Reporting Limit, ppbv	Stack Flow, dscfm	Benzene lbs/hr	Hours/day	Benzene, lb/day
South - Run 1	0.00083	1444	0.000015	24	0.00035
South - Run 2	0.00088	1442	0.000015	24	0.00037
South - Run 3	0.00092	1440	0.000016	24	0.00039
Average	0.00088	1442	0.000015	24	0.00037
				Limit	0.6

#### 4.0 RESULTS

The results show that the unit was operating below permitted levels for all species where limits are given in the permit. The results of the tests are presented in the following tables.

**TABLE 4-1  
NORTH VENT VOC RESULTS**

Run	Total Non-methane/ethane Hydrocarbons, ppm as Methane	Stack Flow, dscfm (average of Pre- & Post-)	Total Non-Methane/Ethane Hydrocarbons, lb/hr as Methane	Hours/day	Total Non-Methane/Ethane Hydrocarbons, lb/day as Methane
North - Run 1	1.1	1431	0.0000077	24	0.09
North - Run 2	1.2	1433	0.0000084	24	0.10
North - Run 3	1.2	1424	0.0000083	24	0.10
Average	1.2	1429	0.000	24	0.10
				Limit	1.5

**TABLE 4-2  
SOUTH VENT VOC RESULTS**

Run	Total Non-methane/ethane Hydrocarbons, ppm as Methane	Stack Flow, dscfm	Total Non-Methane/Ethane Hydrocarbons, lb/hr as Methane	Hours/day	Total Non-Methane/Ethane Hydrocarbons, lb/day as Methane
South - Run 1	1.2	1434	0.0043	24	0.10
South - Run 2	1.2	1440	0.0043	24	0.10
South - Run 3	1.4	1439	0.0050	24	0.12
Average	1.3	1438	0.0045	24	0.11
				Limit	1.5

**TABLE 4-3  
 NORTH VENT BENZENE RESULTS**

Run	Lab Result or Sample Reporting Limit, ppbv	Stack Flow, dscfm	Benzene lbs/hr	Hours/day	Benzene, lb/day
North - Run 1	<0.00044	1431	<0.0000077	24	0.00018
North - Run 2	<0.00048	1433	<0.0000084	24	0.00020
North - Run 3	<0.00048	1424	<0.0000083	24	0.00020
Average	<0.00047	1429	<0.0000081	24	0.00019
				Limit	0.6

**TABLE 4-4  
 SOUTH VENT BENZENE RESULTS**

Run	Lab Result or Sample Reporting Limit, ppbv	Stack Flow, dscfm	Benzene lbs/hr	Hours/day	Benzene, lb/day
South - Run 1	0.0064	1434	0.00011	24	0.0027
South - Run 2	0.0089	1440	0.00016	24	0.0037
South - Run 3	0.0055	1439	0.00010	24	0.0023
Average	0.0069	1438	0.00012	24	0.0029
				Limit	0.6

## Section 4

### AQ-12 HTF Ullage/Expansion Tanks

*The project owner shall establish an inspection and maintenance program to determine repair, and log leaks in HTF piping network and expansion tanks. Inspection and maintenance program and documentation shall be available to District staff upon request.*

*a. All pumps, compressors and pressure relief devices (pressure relief valves or rupture disks) shall be electronically, audio, or visually inspected once every operating day.*

*b. All accessible valves, fittings, pressure relief devices (PRDs), hatches, pumps, compressors, etc. shall be inspected quarterly using a leak detection device such as a Foxboro OVA 108 calibrated for methane.*

*c. Inspection frequency for accessible components, except pumps, compressors and pressure relief valves, may be changed from quarterly to annual when two percent or less of the components within a component type are found to leak during an inspection for five consecutive quarters.*

*d. Inspection frequency for accessible components, except pumps, compressors and pressure relief valves, shall be increased to quarterly when more than two percent of the components within a component type are found to leak during any inspection or report.*

*e. If any evidence of a potential leak is found the indication of the potential leak shall be eliminated within 7 calendar days of detection.*

*f. VOC leaks greater than 10,000-ppmv shall be repaired within 24-hours of detection.*

*g. After a repair, the component shall be re-inspected for leaks as soon as practicable, but no later than 30 days after the date on which the component is repaired and placed in service.*

*h. The project owner shall maintain a log of all VOC leaks exceeding 10,000-ppmv, including location, component type, date of leak detection, emission level (ppmv), method of leak detection, date of and repair, date and emission level of re-inspection after leak is repaired.*

*i. The project owner shall maintain records of the total number of components inspected, and the total number and percentage of leaking components found, by component types made.*

*j. The project owner shall maintain record of the amount of HTF replaced on a monthly basis for a period of 5 years.*

*Verification: The inspection, monitoring, and maintenance plan for the vent release shall be submitted to the CPM for review at least 30 days before taking delivery of the HTF. As part of the Annual Compliance Report, the project owner shall provide the quantity of used HTF fluid removed from the system and the amount of new HTF fluid added to the system each year.*

During 2022 no used HTF was removed from the system and no additional gallons of HTF were added to the system throughout the year. Note that HTF recovered from minor leaks and spills is not included in this reporting.

## Section 5

### **AQ-15 HTF Ullage/Expansion Tanks**

*The project owner shall perform the following annual compliance tests on this equipment in accordance with the MDAQMD Compliance Test Procedural Manual. The test report shall be submitted to the District no later than six weeks prior to the expiration date of this permit.*

*Verification: Verification: As part of the Annual Compliance Report, the project owner shall include the test results demonstrating compliance with this condition and the project owner shall make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.*

### **AQ-16 HTF Ullage/Expansion Tanks**

*Emissions from this equipment may not exceed the following emission limits, based on a calendar day summary:*

- a. VOC as CH<sub>4</sub> – 1.5 lb/day, verified by compliance test.*
- b. Benzene – 0.6 lb/day, verified by compliance test.*

**Verification:** *As part of the Annual Compliance Report, the project owner shall include the test results demonstrating compliance with this condition and the project owner shall make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.*

### **UNIT 1 & 2 ULLAGE VENT TEST RESULTS:**

TABLE 1-1  
RESULTS SUMMARY  
GENESIS SOLAR, LLC  
UNIT 1 ULLAGE VENT  
APRIL 18, 2022

Parameter/Units	North Vent	South Vent	Limit
Total Non-Methane/Ethane Hydrocarbons, lb/day as Methane	<1.28	<0.11	1.5
Benzene, lb/day	<0.00018	0.00037	0.6

TABLE 1-1  
RESULTS SUMMARY  
GENESIS SOLAR, LLC  
UNIT 2 ULLAGE VENT  
APRIL 18, 2022

Parameter/Units	North Vent	South Vent	Limit
Total Non-Methane/Ethane Hydrocarbons, lb/day as Methane	<0.10	<0.11	1.5
Benzene, lb/day	<0.00019	0.0029	0.6

## Section 6

### AQ-20 Cooling Towers

*The drift rate shall not exceed 0.0005 percent with a maximum circulation rate of 3450 gallons per minute. The maximum hourly PM10 emission rate shall not exceed 0.043 pounds per hour, as calculated per the written District approved protocol.*

2022 PM10 data for each unit

# 2022 Annual Compliance Report - Genesis Solar LLC

## Genesis Solar PM10 Data Unit 1

Date	Cooling Tower TDS (ppmw)	Cooling Tower Flow (gpm)	Cooling Tower Flow Rate (klbm/hr)	Cooling Tower PM10 (lbm/hr)	Cooling Tower RUNTIME Hrs/wk	PM10 lbs/wk	Million Gals per week
12/25/21	462	2873	1438	0.003	168.000	0.558207	29
01/01/22	561	3451	1727	0.005	168.000	0.813743	35
01/08/22	565	3435	1719	0.005	168.000	0.81571	35
01/15/22	552	3445	1724	0.005	168.000	0.799408	35
01/22/22	506	3444	1723	0.004	168.000	0.732658	35
01/29/22	543	3131	1567	0.004	168.000	0.71492	32
02/05/22	470	2615	1309	0.003	168.000	0.51663	26
02/12/22	522	2618	1310	0.003	168.000	0.574854	26
02/19/22	578	2626	1314	0.004	168.000	0.637598	26
02/26/22	628	2632	1317	0.004	168.000	0.695432	27
03/05/22	595	2634	1318	0.004	168.000	0.658631	27
03/12/22	602	2635	1319	0.004	168.000	0.666957	27
03/19/22	605	2628	1315	0.004	168.000	0.668256	26
03/26/22	520	2632	1317	0.003	168.000	0.575338	27
04/02/22	432	2634	1318	0.003	168.000	0.478054	27
04/09/22	603	2637	1320	0.004	168.000	0.668072	27
04/16/22	599	2650	1326	0.004	168.000	0.667672	27
04/23/22	598	2689	1346	0.004	168.000	0.67601	27
04/30/22	608	2686	1344	0.004	168.000	0.685969	27
05/07/22	610	2672	1337	0.004	168.000	0.685666	27
05/14/22	605	2668	1335	0.004	168.000	0.678087	27
05/21/22	589	2657	1330	0.004	168.000	0.658186	27
05/28/22	573	2654	1328	0.004	168.000	0.638898	27
06/04/22	575	2640	1321	0.004	168.000	0.638405	27
06/11/22	579	2640	1321	0.004	168.000	0.642359	27
06/18/22	583	2645	1323	0.004	168.000	0.648109	27
06/25/22	576	2652	1327	0.004	168.000	0.641662	27
07/02/22	580	2653	1327	0.004	168.000	0.646276	27
07/09/22	581	2655	1329	0.004	168.000	0.648233	27
07/16/22	581	2658	1330	0.004	168.000	0.649335	27
07/23/22	588	2650	1326	0.004	168.000	0.654716	27
07/30/22	565	2640	1321	0.004	168.000	0.62737	27
08/06/22	578	2639	1320	0.004	168.000	0.64161	27
08/13/22	574	2633	1317	0.004	168.000	0.634651	27
08/20/22	577	2631	1317	0.004	168.000	0.637796	27
08/27/22	580	2630	1316	0.004	168.000	0.6415	27
09/03/22	585	2591	1297	0.004	168.000	0.637395	26
09/10/22	562	2563	1283	0.004	168.000	0.6054	26
09/17/22	551	2553	1278	0.004	168.000	0.591774	26
09/24/22	547	2532	1267	0.003	168.000	0.581918	26
10/01/22	556	2519	1261	0.004	168.000	0.588496	25
10/08/22	559	2525	1263	0.004	168.000	0.593043	25
10/15/22	558	2538	1270	0.004	168.000	0.59526	26
10/22/22	374	2565	1284	0.002	168.000	0.40353	26
10/29/22	544	2578	1290	0.004	168.000	0.589263	26
11/05/22	541	2592	1297	0.004	168.000	0.589511	26
11/12/22	543	2607	1305	0.004	168.000	0.595237	26
11/19/22	549	2614	1308	0.004	168.000	0.603594	26
11/26/22	552	2649	1326	0.004	168.000	0.614497	27
12/03/22	362	2685	1344	0.002	168.000	0.408492	27
12/10/22	298	2688	1345	0.002	168.000	0.336677	27
12/17/22	385	2689	1345	0.003	168.000	0.434903	27
12/24/22	488	2697	1350	0.003	168.000	0.553635	27

# 2022 Annual Compliance Report - Genesis Solar LLC

## Genesis Solar PM10 Data Unit 2

Date	Cooling Tower TDS (ppmw)	Cooling Tower Flow (gpm)	Cooling Tower Flow Rate (klbm/hr)	Cooling Tower PM10 (lbm/hr)	Cooling Tower RUNTIME Hrs/wk	PM10 lbs/wk	Million Gals per week
12/25/21	191	1193	597	0.001	168.000	0.0959	12
01/01/22	617	2768	1385	0.004	168.000	0.7182	28
01/08/22	660	2776	1389	0.005	168.000	0.7703	28
01/15/22	607	2783	1393	0.004	168.000	0.7098	28
01/22/22	602	2803	1402	0.004	168.000	0.7091	28
01/29/22	601	2791	1397	0.004	168.000	0.7048	28
02/05/22	582	2807	1405	0.004	168.000	0.6862	28
02/12/22	588	2807	1405	0.004	168.000	0.6932	28
02/19/22	621	2809	1406	0.004	168.000	0.7335	28
02/26/22	660	2795	1399	0.005	168.000	0.7752	28
03/05/22	628	2781	1392	0.004	168.000	0.734	28
03/12/22	644	2795	1399	0.005	168.000	0.7572	28
03/19/22	642	2797	1400	0.004	168.000	0.7545	28
03/26/22	601	2818	1410	0.004	168.000	0.7123	28
04/02/22	627	2794	1398	0.004	168.000	0.7367	28
04/09/22	612	2803	1402	0.004	168.000	0.7205	28
04/16/22	627	2809	1406	0.004	168.000	0.7406	28
04/23/22	623	2811	1406	0.004	168.000	0.7357	28
04/30/22	616	2807	1405	0.004	168.000	0.727	28
05/07/22	619	2802	1402	0.004	168.000	0.7287	28
05/14/22	614	2803	1403	0.004	168.000	0.7235	28
05/21/22	580	2798	1400	0.004	168.000	0.6825	28
05/28/22	563	2764	1383	0.004	168.000	0.6541	28
06/04/22	468	2740	1371	0.003	168.000	0.5391	28
06/11/22	564	2731	1366	0.004	168.000	0.6471	28
06/18/22	580	2729	1366	0.004	168.000	0.6657	28
06/25/22	602	2736	1369	0.004	168.000	0.6922	28
07/02/22	589	2728	1365	0.004	168.000	0.6758	27
07/09/22	599	2748	1375	0.004	168.000	0.6925	28
07/16/22	660	2768	1385	0.005	168.000	0.768	28
07/23/22	618	2755	1379	0.004	168.000	0.7163	28
07/30/22	565	2745	1374	0.004	168.000	0.6523	28
08/06/22	593	2735	1368	0.004	168.000	0.6812	28
08/13/22	596	2716	1359	0.004	168.000	0.68	27
08/20/22	604	2706	1354	0.004	168.000	0.6867	27
08/27/22	627	2701	1352	0.004	168.000	0.7115	27
09/03/22	591	2616	1309	0.004	168.000	0.6498	26
09/10/22	595	2576	1289	0.004	168.000	0.6441	26
09/17/22	608	2591	1297	0.004	168.000	0.6621	26
09/24/22	659	2604	1303	0.004	168.000	0.721	26
10/01/22	649	2588	1295	0.004	168.000	0.7055	26
10/08/22	641	2583	1293	0.004	168.000	0.6959	26
10/15/22	621	2599	1300	0.004	168.000	0.6789	26
10/22/22	586	2611	1307	0.004	168.000	0.6429	26
10/29/22	579	2619	1311	0.004	168.000	0.6379	26
11/05/22	548	2626	1314	0.004	168.000	0.6045	26
11/12/22	564	2631	1316	0.004	168.000	0.6239	27
11/19/22	559	2632	1317	0.004	168.000	0.6181	27
11/26/22	552	2632	1317	0.004	168.000	0.6106	27
12/03/22	553	2632	1317	0.004	168.000	0.6114	27
12/10/22	486	2636	1319	0.003	168.000	0.5385	27
12/17/22	550	2638	1320	0.004	168.000	0.6103	27
12/24/22	559	2650	1326	0.004	168.000	0.6222	27

## Section 7

### AQ-30 Emergency Diesel Generators

*The project owner shall maintain an operations log for this unit current and on-site, either at the engine location or at an on-site location*

**Verification:** *The project owner shall submit records required by this condition that demonstrating compliance with the sulfur content and engine use limitations of conditions **AQ-27** and **AQ-29** in the Annual Compliance Report, including a photograph showing the annual reading of engine hours. The project owner shall make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.*

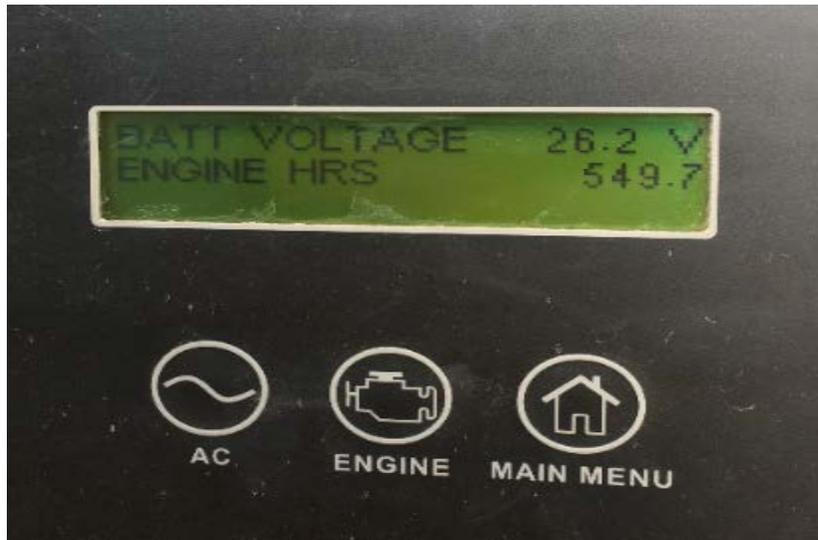
Fuel Sulfur concentration from supplier's certificate of sulfur content maintained on file at the facility. Operations log maintained at the facility.

Unit 1 Emergency Diesel Generator operated a total of 8.6 hours in 2022.



## 2022 Annual Compliance Report - Genesis Solar LLC

Unit 2 Emergency Diesel Generator operated a total of 9.7 hours in 2022



## Section 8

### **AQ-39 Emergency Diesel Fire Pump**

**Verification:** *The project owner shall submit records required by this condition that demonstrating compliance with the sulfur content and engine use limitations of conditions **AQ-36** and **AQ-38** in the Annual Compliance Report, including a photograph showing the annual reading of engine hours. The project owner shall make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission*

Fuel Sulfur concentration from supplier's certificate of sulfur content maintained on file at the facility.  
Operations log maintained at the facility.

Facility Emergency Diesel Fire Pump operated a total of 18.9 hours in 2022.



## Section 9

### **AQ-50 Gasoline Storage Tank**

**Verification:** *The project owner shall submit to the CPM gasoline throughput records demonstrating compliance with this condition as part of the Annual Compliance Report. The project owner shall maintain on site the annual gasoline throughput records and shall make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.*

2022 Gasoline Throughput Records.



# Throughput Fuel Dispensing Equipment

Failure to respond no later than **Feb. 28** will result in enforcement action.

Emission year: 2022

Fill out sections in gray and return to  
**Mojave Desert Air Quality Management District**  
 at the address listed at the top of this document,  
 or email completed form to [VaporRecoveryTesting@mdaqmd.ca.gov](mailto:VaporRecoveryTesting@mdaqmd.ca.gov).

STATION NAME: <b>GENESIS SOLAR LLC</b>	COMPANY NUMBER: <b>1884</b>	FACILITY NUMBER: <b>3137</b>	DISTRICT PERMIT NUMBER: <b>N011068</b>
STATION ADDRESS: <b>11995 WILEY'S WELL ROAD</b>	CITY: <b>BLYTHE</b>	STATE: <b>CA</b>	ZIP: <b>92225</b>
TELEPHONE NUMBER: <b>626-233-1943</b>	EMAIL ADDRESS: <b>MARIA.LOPEZ3@NEXTERAENERGY.COM</b>		

TYPE OF FUEL DISPENSED:	TOTAL GALLONS DISPENSED IN EMISSION YEAR:
<input checked="" type="checkbox"/> Gasoline	<u>15872</u>
<input checked="" type="checkbox"/> Diesel fuel	<u>6900</u>
<input type="checkbox"/> Propane	_____
<input type="checkbox"/> Aviation gas	_____
<input type="checkbox"/> Ethanol	_____
<input type="checkbox"/> Racing fuel	_____

**CERTIFICATION**

I, MARIA ELENA LOPEZ, a responsible official of  
NAME OF OFFICIAL

GENESIS SOLAR LLC, hereby certify, based upon information and  
NAME OF FACILITY

belief formed after reasonable inquiry, that the above information is true, accurate and  
 complete. Executed this 27th day of JANUARY, 2023 at  
DAY MONTH YEAR

SAN BERNARDINO COUNTY  
COUNTY AND STATE

Maria Elena Lopez MARIA E. LOPEZ ENV. SPEC  
SIGNATURE NAME AND TITLE

**For questions or assistance, call 760.245.1661.**

# Section 10

## AQ-SC-6 (Vehicle and Equipment Fleet)

At least 30 days prior to the start commercial operation, the project owner shall submit to the CPM a copy of the plan that identifies the size and type of the on-site vehicle and equipment fleet and the vehicle and equipment purchase orders and contracts and/or purchase schedule

### Genesis Vehicle and Equipment List

Qty	Description	Detailed Description	Manufacturer's VIN/SERIAL NUMBER	Plant
1	Chevrolet CK 15743 Silverado 15	GM Vehicle	3GCUKNEC2GG351350	PGM
1	2013 Ford F-150 4WD SuperCrew 145" XL (W1E)	PM Vehicle	1FTFW1EF4DKF10955	PM
1	2013 Ford F-150 2WD SuperCrew 145" XL (W1C)	Admin	1FTEW1CM6DKF10954	VAD-1
3	2013 Ford F-150 2WD Reg Cab 126" XL (F1C)	PA / Ops Spec / Maint Spec / Env	1FTMF1CMXDKF05400 1FTMF1CM1DKF05401 1FTMF1CM7DKF05404	VPL-1 VPL-2 VPL-3
4	2013 Ford F-150 2WD Reg Cab 126" XL (F1C)	Production Team - Power Block	1FTMF1CM3DKF05402 1FTMF1CM3DKF05397 1FTMF1CM5DKF05398	VPB-2 VPB-3 VPB-4
3	2013 Ford F-150 2WD Reg Cab 126" XL (F1C)	Production team - Solar Field Patrol & Maintenance	1FTMF1CM5DKF05403 1FTMF1CM9DKF05405 1FTMF1CM1DKF05396	VSF-1 VSF-2 VSF-3
1	2013 Ford super Duty F-350 DRW 2WD Reg Cab 141" WB 60" CA XL (F3G) w/Compressor	Production Team Equipment Service		VSRV-1
3	2013 Ford Super Duty F-250 SRW 2WD Reg Cab 137" XL (F2A)	Production Team - Plant	1FDBF2A66DEB58109 1FDBF2ADEB58107	VSRV-2 VSRV-3 VSRV-4
2	2013 Ford super Duty F-350 DRW 2WD Reg Cab 141" WB 60" CA XL (F3G) w/Welder	Production Team - Plant Welding & Maintenance		VW-1 VW-2
1	2013 Ford Super Duty F-450 DRW 2WD Reg Cab 165" WB 84" CA XL (F4G)	Service Truck		VSRV-5
2	2013 CT660S SBA 6x4 (CF7AA) 4500 Gallon Water Deluge Trucks	Deluge Truck		MWT-1 MWT-2
2	HTF Evacuation Trucks		2NP2HJ7X8EM224954	ET-1 ET-2
1	Backhoe Caterpillar 420F Extendable Boom Four Wheel Drive	Underground repair		TBH-1
1	CAT Model: 259B3 Compact Track Loader	Grade repair		

## Section 11

### **BIO-2 Designated Biologists Duties**

*Verification: The Designated Biologist shall provide copies of all written reports and summaries that document biological resources compliance activities in the Monthly Compliance Reports submitted to the CPM (Construction is now over and monthly reports have ceased since 2014). If actions may affect biological resources during operation a Designated Biologist shall be available for monitoring and reporting. During Project operation, the Designated Biologist shall submit record summaries in the Annual Compliance Report unless his or her duties cease, as approved by the CPM*

The Designated Biologists are on an on-call basis. CEC approved Designated Biologists are Matthew Martin and Amy Anderson.

## Section 12

### **BIO-4 Biological Monitor Duties**

*Verification: The Designated Biologist shall submit in the Monthly Compliance Report to the CPM copies of all written reports and summaries that document biological resources compliance activities, including those conducted by Biological Monitors. If actions may affect biological resources during operation a Biological Monitor, under the supervision of the Designated Biologist, shall be available for monitoring and reporting. During Project operation, the Designated Biologist shall submit record summaries in the Annual Compliance Report unless their duties cease, as approved by the CPM.*

Continued Designated Biologists duties ceased as approved by the CPM. On call status of the Designated Biologists remains effective.

## Section 13

### **BIO-6 Worker Environmental Awareness Program (WEAP)**

*Verification: At least 30 days prior to start of construction-related ground disturbance the Project owner shall provide to the CPM for review and approval, and to the USFWS and CDFG for review, a copy of the final WEAP and all supporting written materials and electronic media prepared or reviewed by the Designated Biologist and a resume of the person(s) administering the program.*

*The Project owner shall provide in the Monthly Compliance Report the number of persons who have completed the training in the prior month and a running total of all persons who have completed the training to date. At least 10 days prior to construction-related ground disturbance activities the Project owner shall submit two copies of the CPM-approved final WEAP.*

*Training acknowledgement forms signed during construction shall be kept on file*

## 2022 Annual Compliance Report - Genesis Solar LLC

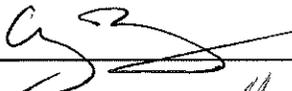
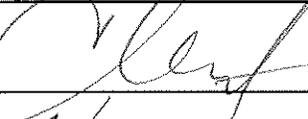
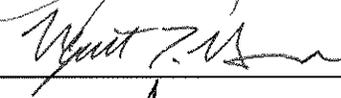
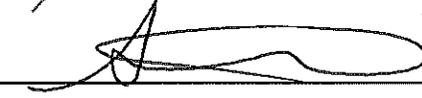
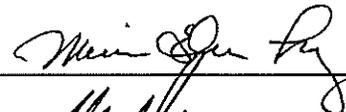
*by the Project owner for at least six months after the start of commercial operation.*

*Throughout the life of the Project, the WEAP shall be repeated annually for permanent employees, and shall be routinely administered within one week of arrival to any new construction personnel, foremen, contractors, subcontractors, and other personnel potentially working within the Project area. Upon completion of the orientation, employees shall sign a form stating that they attended the program and understand all protection measures. These forms shall be maintained by the Project owner and shall be made available to the CPM, BLM, USFWS and CDFG and upon request. Workers shall receive and be required to visibly display a hardhat sticker or certificate that they have completed the training.*

*During Project operation, signed statements for operational personnel shall be kept on file for six months following the termination of an individual's employment.*

2022 signed orientation/WEAP training.

## Workers Environmental Awareness Plan: Training Roster Genesis Solar Energy Project

Name : Print	Signature	Date
Eduardo Magaña		10-3-22
Pedro Perez		10-3-22
Coby Hittalay		10-3-22
Jared Jaramillo		10/3/22
David Cunha		10-3-22
Chris Kretz		10-3-22
Wyatt Hancock		10-3-22
Steve Currier		10-3-22
MARIA E. LOPEZ		10-3-2022
GENE DESHAW		10-3-22









SOPR 241 Contractor Management

PGD Contractor Orientation - Employee Acknowledgement

By attending the PGD Contractor Orientation and FPL plant-specific Contractor Orientation for this PGD FPL plant, I acknowledge I understand and I shall fully comply with all safety, health, regulatory, NextEra Energy (NEE) Power Generation Division (PGD) FPL contract work requirements; my signature below affirms I understand that a violation of these requirements are sufficient grounds for immediate removal from the work and/or termination of the contract.

NEE Plant: Genesis Solar Contract Coordinator: Joe Bistline

Contractor Company: Amtech Elevator Date: 8-10-2022

Table with 2 columns: Name, Signature. Contains handwritten entries for Cory Angladd and Steve Watkins, followed by 18 empty rows.























SOPR 241 Contractor Management

PGD Contractor Orientation - Employee Acknowledgement

By attending the PGD Contractor Orientation and FPL plant-specific Contractor Orientation for this PGD FPL plant, I acknowledge I understand and I shall fully comply with all safety, health, regulatory, NextEra Energy (NEE) Power Generation Division (PGD) FPL contract work requirements; my signature below affirms I understand that a violation of these requirements are sufficient grounds for immediate removal from the work and/or termination of the contract.

NEE Plant: Genesis Solar Contract Coordinator: Joe Bistline

Contractor Company: Farwest Insulation Date: 6-1-2022

Table with 2 columns: Name, Signature. Contains handwritten names and signatures for Francisco Acevedo, Gabriel Moreno, and Jacob Martin, followed by 16 empty rows.













SOPR 241 Contractor Management

PGD Contractor Orientation - Employee Acknowledgement

By attending the PGD Contractor Orientation and FPL plant-specific Contractor Orientation for this PGD FPL plant, I acknowledge I understand and I shall fully comply with all safety, health, regulatory, NextEra Energy (NEE) Power Generation Division (PGD) FPL contract work requirements; my signature below affirms I understand that a violation of these requirements are sufficient grounds for immediate removal from the work and/or termination of the contract.

NEE Plant: Genesis Solar Contract Coordinator: Joe Bistine

Contractor Company: ICR Date: 7-28-2022

Table with 2 columns: Name, Signature. Row 1: Isaac Hernandez, [Signature].







SOPR 241 Contractor Management

PGD Contractor Orientation - Employee Acknowledgement

By attending the PGD Contractor Orientation and FPL plant-specific Contractor Orientation for this PGD FPL plant, I acknowledge I understand and I shall fully comply with all safety, health, regulatory, NextEra Energy (NEE) Power Generation Division (PGD) FPL contract work requirements; my signature below affirms I understand that a violation of these requirements are sufficient grounds for immediate removal from the work and/or termination of the contract.

NEE Plant: Georgia's Solar Contract Coordinator: Gene Dechazo

Contractor Company: Iris Power Date: 7/21/22

Table with 2 columns: Name, Signature. Row 1: MARE PIKE, [Signature], 7/21/22. Rows 2-20: Empty.







SOPR 241 Contractor Management

PGD Contractor Orientation - Employee Acknowledgement

By attending the PGD Contractor Orientation and FPL plant-specific Contractor Orientation for this PGD FPL plant, I acknowledge I understand and I shall fully comply with all safety, health, regulatory, NextEra Energy (NEE) Power Generation Division (PGD) FPL contract work requirements; my signature below affirms I understand that a violation of these requirements are sufficient grounds for immediate removal from the work and/or termination of the contract.

NEE Plant: GENESIS SOLAR Contract Coordinator: JOE BISTLINE

Contractor Company: KONECRANES Date: 7/21/2022

Table with 2 columns: Name, Signature. Row 1: FRANK FLORES, [Signature].



SOPR 241 Contractor Management

PGD Contractor Orientation - Employee Acknowledgement

By attending the PGD Contractor Orientation and FPL plant-specific Contractor Orientation for this PGD FPL plant, I acknowledge I understand and I shall fully comply with all safety, health, regulatory, NextEra Energy (NEE) Power Generation Division (PGD) FPL contract work requirements; my signature below affirms I understand that a violation of these requirements are sufficient grounds for immediate removal from the work and/or termination of the contract.

NEE Plant: Genesis Solar Contract Coordinator: Mike Musker

Contractor Company: Lawrence Door Date: 5/26/22

Table with 2 columns: Name, Signature. Contains handwritten entries for Justin Altman and Andrew Richards, and 16 empty rows.







SOPR 241 Contractor Management

PGD Contractor Orientation - Employee Acknowledgement

By attending the PGD Contractor Orientation and FPL plant-specific Contractor Orientation for this PGD FPL plant, I acknowledge I understand and I shall fully comply with all safety, health, regulatory, NextEra Energy (NEE) Power Generation Division (PGD) FPL contract work requirements; my signature below affirms I understand that a violation of these requirements are sufficient grounds for immediate removal from the work and/or termination of the contract.

NEE Plant: GENESIS SOLAR Contract Coordinator: MIKE MEDSKER

Contractor Company: PALMOWEST Date: 20 DEC. 2020

Table with 2 columns: Name, Signature. Row 1: Name: KURT McLEAP, Signature: [Handwritten Signature].



SOPR 241 Contractor Management

PGD Contractor Orientation - Employee Acknowledgement

By attending the PGD Contractor Orientation and FPL plant-specific Contractor Orientation for this PGD FPL plant, I acknowledge I understand and I shall fully comply with all safety, health, regulatory, NextEra Energy (NEE) Power Generation Division (PGD) FPL contract work requirements; my signature below affirms I understand that a violation of these requirements are sufficient grounds for immediate removal from the work and/or termination of the contract.

NEE Plant: GENESIS SOLAR Contract Coordinator: MIKE MEDSKAR

Contractor Company: PEARCE Date: 8-30-22

Table with 2 columns: Name, Signature. Row 1: Cuero ybarra, [Signature].

















SOPR 241 Contractor Management

PGD Contractor Orientation - Employee Acknowledgement

By attending the PGD Contractor Orientation and FPL plant-specific Contractor Orientation for this PGD FPL plant, I acknowledge I understand and I shall fully comply with all safety, health, regulatory, NextEra Energy (NEE) Power Generation Division (PGD) FPL contract work requirements; my signature below affirms I understand that a violation of these requirements are sufficient grounds for immediate removal from the work and/or termination of the contract.

NEE Plant: Genesis Solar Contract Coordinator: Joe Bistline

Contractor Company: Pearce Renewables Date: 1-18-2022

Table with 2 columns: Name, Signature. Contains handwritten entries for Isaiah George and Eligh Young, followed by 18 empty rows.



SOPR 241 Contractor Management

PGD Contractor Orientation - Employee Acknowledgement

By attending the PGD Contractor Orientation and FPL plant-specific Contractor Orientation for this PGD FPL plant, I acknowledge I understand and I shall fully comply with all safety, health, regulatory, NextEra Energy (NEE) Power Generation Division (PGD) FPL contract work requirements; my signature below affirms I understand that a violation of these requirements are sufficient grounds for immediate removal from the work and/or termination of the contract.

NEE Plant: Genesis Sdar Contract Coordinator: Joe Bistline

Contractor Company: Pearce Renewables Date: 1-31-22

Table with 2 columns: Name, Signature. Contains handwritten signatures for Jaton Krajestri and CALES RODRIGUEZ, and 18 empty rows.















SOPR 241 Contractor Management

PGD Contractor Orientation - Employee Acknowledgement

By attending the PGD Contractor Orientation and FPL plant-specific Contractor Orientation for this PGD FPL plant, I acknowledge I understand and I shall fully comply with all safety, health, regulatory, NextEra Energy (NEE) Power Generation Division (PGD) FPL contract work requirements; my signature below affirms I understand that a violation of these requirements are sufficient grounds for immediate removal from the work and/or termination of the contract.

NEE Plant: GENESIS SOLAR, LLC Contract Coordinator: LOUIE MURILLO

Contractor Company: PEARCE RENEWABLES Date: 5/16/22

Table with 2 columns: Name, Signature. Contains handwritten entries for Julia Monterrosa and Justia Rivers, followed by 16 empty rows.







SOPR 241 Contractor Management

PGD Contractor Orientation - Employee Acknowledgement

By attending the PGD Contractor Orientation and FPL plant-specific Contractor Orientation for this PGD FPL plant, I acknowledge I understand and I shall fully comply with all safety, health, regulatory, NextEra Energy (NEE) Power Generation Division (PGD) FPL contract work requirements; my signature below affirms I understand that a violation of these requirements are sufficient grounds for immediate removal from the work and/or termination of the contract.

NEE Plant: GENESIS SOLAR Contract Coordinator: MIKE MEDSKER

Contractor Company: PEARCE Date: 11/10/22

Table with 2 columns: Name, Signature. Contains handwritten entries for Hernando Cardenas Jr and Tarique Williams, followed by 18 empty rows.







SOPR 241 Contractor Management

PGD Contractor Orientation - Employee Acknowledgement

By attending the PGD Contractor Orientation and FPL plant-specific Contractor Orientation for this PGD FPL plant, I acknowledge I understand and I shall fully comply with all safety, health, regulatory, NextEra Energy (NEE) Power Generation Division (PGD) FPL contract work requirements; my signature below affirms I understand that a violation of these requirements are sufficient grounds for immediate removal from the work and/or termination of the contract.

NEE Plant: Genesis Contract Coordinator: \_\_\_\_\_

Contractor Company: WEST, inc. Date: 7/11/22

Table with 2 columns: Name, Signature. Row 1: Coigi Wagmon, [Signature]. Rows 2-18: Empty.

# 2022 Annual Compliance Report - Genesis Solar LLC

## Section 14

### BIO-13 Raven Management

Site personnel performed monthly Raven observations throughout the year and typically observed no more than two ravens during any observation with none observed 50% of the time. Raven control and management goals were met for the year and current mitigation measures will continue for 2023.

Month	Total Ravens Observed During Point Count Survey	Observed Behaviors	Weather Conditions
1/26/2022	2	2 coras observed flying by admin / warehouse bldgs Unit 1. One landed by the equipment parking structure, the other one landed to rest on solar collector across from the warehouse bldg. No nests spotted.	8:30 AM Sunny 57°F wind n 12 mph, humidity 28%, no chance of rain in the forecast.
2/21/2022	0	No coras observed at either plant.	10:45 AM Sunny conditions. 21MPH winds from the south. High temperature today:73°. No rain forecasted.
3/16/2022	0	No coras observed at either plant.	9:10 AM Sunny, 77°F, 24MPH winds from NW, high temperature 86°F. No rain in the forecast.
4/19/2022	0	No coras observed at either plant.	7:00 AM partly cloudy. 77°F. 5 MPH winds from the south. High temperature 96°F. No rain in the forecast.
5/23/2022	0	No coras observed at either plant.	11:15 AM sunny conditions all day 90°F. 2 MPH winds from the south. High temperature 99°F. No rain in the forecast.
6/27/2022	1	1 cora observed resting on top of the trash bin in unit 1. After about 15 min, it flew north over the warehouse building towards the solar field.	8:00 AM sunny conditions all day. 90°F. 7 MPH winds from the south. High of 108 expected today. No rain on the forecast.
7/11/2022	0	No coras observed at either plant or the solar field.	8:00 AM sunny conditions all day. 93°F. 1 MPH winds from the south. High of 110° expected today. No rain on the forecast.
8/11/2022	2	2 coras observed flying over the solar field Unit 1. bldg. No nests spotted.	8:10 AM Sunny conditions , 89°F. 1 MPH winds from the E. High of 106° expected today. 54% humidity.
9/13/2022	1	1 cora observed flying high over solar field collector 1WB/A42. No coras observed at plant 2.	1:15 PM partly cloudy conditions all day 94°F. 12 MPH winds from the SE. High temperature 95°F. 33% humidity. No chance of rain in the forecast.
10/11/2022	0	No Coras or nests observed at either plant or solar field.	10:30 am Sunny 85°F wind nw < 3 mph Humidity 28% no rain in the forecast
11/15/2022	2	2 coras observed flying over WT Unit 1 towards warehouse bldg and solar filed. No nests spotted.	1:15 pm 68°F Sunny conditions with some clouds, wind from the south 11 mph, humidity 18%, no chance of rain.
12/27/2022	0	No Coras or nests observed at either plant or solar field.	9:45 am 60°F Cloudy conditions all day with winds up to 6mph. Humidity 42% with 40% chance of rain after 11 PM

## Section 15

### **BIO-14 Weed Management Plan**

*Verification: No less than 10 days prior to start of any Project-related ground disturbance activities, the Project owner shall provide the CPM with the final version of a Weed Management Plan that has been reviewed and approved by Energy Commission staff, USFWS, and CDFG. Modifications to the approved Weed Control Plan shall be made only after consultation with the Energy Commission staff, USFWS, and CDFG.*

*Within 30 days after completion of Project construction, the Project owner shall provide to the CPM for review and approval, a written report identifying which items of the Weed Management Plan have been completed, a summary of all modifications to mitigation measures made during the Project's construction phase, and which items are still outstanding.*

*On January 31st of each year following construction the Designated Biologist shall provide a report to the CPM that includes: a summary of the results of noxious weeds surveys and management activities for the year; a discussion of whether weed management goals for the year were met; and recommendations for weed management activities for the upcoming year.*

Genesis Solar continues in 2022 to follow a program consistent with the facility's Weed Management Plan with the annual application of approved pre-emergent herbicides and follow-up application of post germination herbicides as needed to control the noxious weed population. This program has met the weed management goals for the year and no changes are proposed for 2023.

## Section 16

### **BIO-15 Pre-Construction Nest Surveys**

No construction activities occurred during 2022 the reporting period.

## Section 17

### **BIO-16 Avian Protection Plan**

*The Project owner shall prepare and implement an Avian Protection Plan to monitor the death and injury of birds from collisions with facility features such as transmission lines, reflective mirror-like surfaces and from heat, and bright light from concentrating sunlight. The Project owner shall use the monitoring data to inform and develop an adaptive management program that would avoid and minimize Project-related avian impacts. Project-related bird deaths or injuries shall be reported to the CPM, CDFG, and USFWS. The CPM, in consultation with CDFG and USFWS, shall determine if the Project-related bird deaths or injuries warrant implementation of adaptive management measures contained in the Avian Protection Plan. The study design for the Avian Protection Plan shall be approved by the CPM in consultation with*

## 2022 Annual Compliance Report - Genesis Solar LLC

*CDFG and USFWS, and, once approved, shall be incorporated into the project's BRMIMP and implemented.*

### **Verification:**

*No later than January 31st of every year the Annual Report shall be provided to the CPM, CDFG, and USFWS. Quarterly reporting shall continue until the CPM, in consultation with CDFG and USFWS determine whether more years of monitoring are needed, and whether mitigation and adaptive management measures are necessary. After two years of data collection the project owner or contractor shall prepare a report that describes the study design and monitoring results of the Avian Protection Plan. The report shall be submitted to the CPM, CDFG and USFWS no later than the third year after onset of Project operation.*

BBCS monitoring is now complete. Reporting through the USFWS Special Purpose Utility Permit (SPUT) Permit continues as avian mortalities are found incidentally. Avian mortalities are entered into the USFWS online reporting system and WRRS internal reporting system.

## Section 18

### **BIO-18 Burrowing Owl Impact Avoidance, Minimization, and Compensation Measures**

**Verification:** *Genesis Solar LLC had no requirements to relocate or mitigate burrowing owls during the construction phase of the facility and compensation measures were completed. As the construction phase of the project is over, and the site has had no burrowing owl siting's or relocation measures arise, Genesis staff request this condition be closed and no further action necessary for future reporting.*

Per the condition of certification, the REAT was established, and a final report submitted to the CEC in 2014.

## Section 19

### **BIO-19 Special-Status Plant Impact Avoidance, Minimization and Compensation**

**Verification:** *The Special-Status Plant Impact Avoidance and Minimization Measures shall be incorporated into the BRMIMP as required under Condition of Certification **BIO-7**.*

*Raw GPS data, metadata, and CNDDDB field forms shall be submitted to the CPM within two weeks of the completion of each survey. A preliminary summary of results for the late summer/fall botanical surveys shall also be submitted to the CPM and BLM's State Botanist within two weeks following the completion of the surveys. If surveys are split into more than one period, then a summary letter shall be submitted following each survey period. The Final Summer-Fall Botanical Survey Report, GIS shape files and metadata shall be submitted to the BLM State Botanist and the CPM no less than 30 days prior to the start of ground-disturbing activities. The Final Report shall include a detailed accounting of the acreage of Project impacts to special-status plant occurrences. The draft conceptual Special-Status Plant Mitigation*

## 2022 Annual Compliance Report - Genesis Solar LLC

*Plan shall be submitted to the CPM for review and approval no less than 30 days prior to the start of ground-disturbing activities.*

*The Project owner shall immediately provide written notification to the CPM, CDFG, USFWS, and BLM if it detects a State- or Federal-Listed Species, or BLM Sensitive Species at any time during its late summer/fall botanical surveys or at any time thereafter through the life of the Project, including conclusion of Project decommissioning.*

*No less than 30 days prior to the start of ground-disturbing activities the Project owner shall submit grading plans and construction drawings to the CPM which depict the location of Environmentally Sensitive Areas and the Avoidance and Minimization Measures contained in Section A of this Condition.*

*If compensatory mitigation is required, no less than 30 days prior to the start of ground-disturbing activities, the Project owner shall submit to the CPM the form of Security adequate to acquire compensatory mitigation lands and/or undertake habitat enhancement or restoration activities, as described in this condition.*

*Actual Security shall be provided 7 days prior to start of ground-disturbing activities.*

*No fewer than 90 days prior to acquisition of compensatory mitigation lands, the Project owner shall submit a formal acquisition proposal and draft Management Plan for the proposed lands to the CPM, with copies to CDFG, USFWS, and BLM, describing the parcels intended for purchase and shall obtain approval from the CPM prior to the acquisition. No fewer than 90 days prior to acquisition of compensatory mitigation lands, the Project owner shall submit to the CPM and obtain CPM approval of any agreements to delegate land acquisition to an approved third party, or to manage compensation lands; such agreement shall be executed and implemented within 18 months of the start of ground disturbance.*

*No fewer than 30 days after acquisition of the property the Project owner shall deposit the funds required by Section I e above (long term management and maintenance fee) and provide proof of the deposit to the CPM.*

*The Project owner or an approved third party shall complete the acquisition and all required transfers of the compensation lands and provide written verification to the CPM of such completion no later than 18 months after the start of Project ground-disturbing activities. If NFWF or another approved third party is being used for the acquisition, the Project owner shall ensure that funds needed to accomplish the acquisition are transferred in timely manner to facilitate the planned acquisition and to ensure the land can be acquired and transferred prior to the 18-month deadline. If habitat enhancement is proposed, no later than six months following the start of ground-disturbing activities, the Project owner shall obtain CPM approval of the final Habitat Enhancement/Restoration Plan, prepared in accordance with Section D, and submit to the CPM or a third party approved by the CPM Security adequate for long-term implementation and monitoring of the Habitat Enhancement/Restoration Plan.*

*Enhancement/restoration activities shall be initiated no later than 12 months from the start of construction. The implementation phase of the enhancement project shall be completed within five years of initiation. Until completion of the five-year implementation portion of the enhancement action, a report shall be prepared and submitted as part of the Annual Compliance Report. This report shall provide, at a minimum: a summary of activities for the preceding year and a summary of activities for the following year; quantitative measurements of the*

*Project's progress in meeting the enhancement project success criteria; detailed description of remedial actions taken or proposed; and contact information for the responsible parties.*

*If a Status and Distribution Study is proposed, the study shall commence no later than six months following the start of ground-disturbing activities. The draft study shall be submitted to the CPM and BLM Botanist for review and approval no more than two years following the start of ground-disturbing activities. The final study shall be submitted no more than 30 months following the start of ground disturbing activities.*

*If a Distribution Study is implemented as contingency mitigation, the study shall be initiated no later than 6 months from the start of construction. The implementation phase of the study shall be completed within two years of the start of construction.*

## **2022 Annual Compliance Report - Genesis Solar LLC**

*Within 18 months of ground-disturbing activities, the Project owner shall transfer to the CPM or an approved third party the difference between the Security paid and the actual costs of (1) acquiring compensatory mitigation lands, completing initial protection and habitat improvement, and funding the long-term maintenance and management of compensatory mitigation lands; and/or (2) implementing and providing for the long-term protection and monitoring of habitat enhancement or restoration activities. Implementation of the special-status plant impact avoidance and minimization measures shall be reported in the Monthly Compliance Reports prepared by the Designated Botanist. Within 30 days after completion of Project construction, the Project owner shall provide to the CPM, for review and approval, in consultation with the BLM State Botanist, a written construction termination report identifying how measures have been completed.*

*The Project owner shall submit a monitoring report every year for the life of the project to monitor effectiveness of protection measures for all avoided special status plants to the CPM and BLM State Botanist. The monitoring report shall include: dates of worker awareness training sessions and attendees, completed*

*CNDDDB field forms for each avoided occurrence on-site and within 100 feet of the Project boundary off-site, and description of the remedial action, if warranted and planned for the upcoming year. The completed forms shall include an inventory of the special-status plant occurrences and description of the habitat conditions, an indication of population and habitat quality trends.*

The annual report from the plant designated botanist, Dr. Alice Karl, has been submitted to the CEC via email on 02/22/2023

### **BIO-14 and the Project Weed Management Plan**

Weed monitoring and control along the road shoulders has been ongoing and successful. Dr. Karl's recommendation is to continue with annual weed control along the road shoulders. No additional recommendations were added to her annual 2022 report.

We will quantitatively monitor revegetation success again in 2024 (Year 10) and continue qualitative monitoring until that time as mentioned in her report.

### **BIO-24 and the Project Revegetation Plan**

#### ***Revegetation Success***

The approved revegetation plan required that an assessment be made at the end of Year 2 to determine if additional revegetation efforts will be necessary in Year 3 – specifically, the out planting of nursery grown seedlings - to meet success standards in Year 10. The south side assessment in 2015 concluded that success standards are very likely to be met and may be exceeded. For the north side, the growth of annuals from minor summer rains in 2015 suggests that soil functioning, water capture and seed capture are enough to support restoration, should adequate rain occur. No additional efforts are currently recommended.

## Section 20

### **BIO-21 Evaporation Pond Netting and Monitoring**

**Verification:** *No less than 30 days prior to operation of the evaporation ponds the project owner shall provide to the CPM as-built drawings and photographs of the ponds indicating that the bird exclusion netting has been installed. For the first year of operation the Designated Biologist shall submit quarterly reports to the CPM, CDFG, and USFWS describing the dates, durations and results of site visits conducted at the evaporation ponds. Thereafter the Designated Biologist shall submit annual monitoring reports with this information. The quarterly and annual reports shall fully describe any bird or wildlife death or entanglements detected during the site visits or at any other time, and shall describe actions taken to remedy these problems. The annual report shall be submitted to the CPM, CDFG, and USFWS no later than January 31st of every year for the life of the project.*

All pond inspections are performed by Genesis's staff. Inspection results are logged in the facility Maintenance Management System. No significant issues were identified with the evaporation pond netting in 2022 and minor repairs were completed by site personnel when identified during routine inspections.

## Section 21

### **BIO-22 Mitigation for Impacts to State Waters**

**Verification:** *No less than 30 days prior to the start of construction-related ground disturbance activities potentially affecting waters of the state, the Project owner shall provide written verification (i.e., through incorporation into the (BRMIMP) to the CPM that the above best management practices shall be implemented. The Project owner shall also provide a discussion of work in waters of the state in Compliance Reports for the duration of the Project.*

*No less than 30 days prior to beginning construction-related ground-disturbing activities the Project owner shall provide written verification of Security in accordance with this condition of certification. The Project owner, or an approved third party, shall complete and provide written verification of the proposed compensation lands acquisition within 18 months of the start of construction related ground-disturbing activities.*

*The Project owner shall notify the CPM and CDFG, in writing, at least five days prior to initiation of construction-related ground-disturbing activities in jurisdictional state waters and at least five days prior to completion of Project activities in jurisdictional areas. The Project owner shall notify the CPM and CDFG of any change of conditions to the Project, impacts to state waters, or the mitigation efforts. The notifying report shall be provided to the CPM and CDFG no later than seven days after the change of conditions is identified. As used here, change of condition refers to the process, procedures, and methods of operation of a Project; the biological and physical characteristics of a Project area; or the laws or regulations pertinent to the Project as defined below. A copy of the notifying Change of Conditions report shall be included in the annual reports or until it is deemed unnecessary by the CPM, in consultation with CDFG. The Project owner, or an approved third party, shall provide the CPM, CDFG and USFWS with a draft management plan for the compensation lands and associated funds within 180 days of the land or easement purchase, as determined by the date on the title. The CPM shall review and approve the management plan, in consultation with CDFG.*

## 2022 Annual Compliance Report - Genesis Solar LLC

*Within 90 days after completion of Project construction, the Project owner shall provide to the CPM and CDFG an analysis with the final accounting of the amount of jurisdictional state waters disturbed during Project construction.*

*The Project owner shall provide written verification to the CPM, USFWS and CDFG that the compensation lands or conservation easements have been acquired and recorded in favor of the approved recipient no later than 18 months after the start of construction-related ground-disturbing activities.*

*On January 31st of each year following construction the Designated Biologist shall provide a report to the CPM, BLM, USFWS and CDFG that describes the results of monitoring and management of the acquisition lands. The annual report shall describe actions taken to implement the management plan (for example, fencing, erosion control, weed control) during the year and recommendations for enhancement actions that should be implemented the following year.*

Wildlands, Inc. is responsible for completing the other compensatory mitigation tasks and deliverables described in the CEC Decision and BLM Approvals, including, but not limited to, Preliminary Report, Title/Conveyance, Initial Protection and Habitat Improvement, Property Analysis Record, and Long-Term Maintenance and Management Funding and all associated reports and notifications that must be submitted to the Approving Agencies.

## Section 22

### BIO-27 Couch's Spade Foot Toad

**Verification:** *No less than 30 days prior to construction-related ground disturbance the Project owner shall submit to the CPM and CDFG a final Protection and Mitigation Plan. Modifications to the Protection and Mitigation*

*Plan shall be made only after approval from the CPM, in consultation with CDFG. If the Protection and Mitigation Plan includes creation of ponds, the number and acreage of created ponds shall be described in the plan. No less than 90 days prior to operation of Project the Project owner shall provide to the CPM as-built drawings and photographs of the created ponds and maps showing the size and location of the ponds in relation to project features. On January 31st of every year following initiation of operation of the Project the Project owner shall submit reports to the CPM documenting the capacity of the created ponds to hold water for at least 9 days during the spadefoot toad breeding season. If ponds fail to hold water as described above the Project owner shall implement remedial actions. The annual reporting may be terminated upon satisfactory demonstration of this performance standard, and with approval of the CPM.*

No mitigation ponds were required, and none were built in the 2022 reporting period.

# Section 23

## HAZ-1 Hazardous Materials

The project owner shall not use any hazardous materials not listed in Appendix A, below, or in greater quantities or strengths than those identified by chemical name in Appendix A, below, unless approved in advance by the Compliance Project Manager (CPM).

**Verification:** The project owner shall provide to the CPM, in the Annual Compliance Report, a list of hazardous materials contained at the facility

Hazardous Materials at Genesis Solar.

Material	CAS No.	Application	Hazard Characteristics	Maximum Quantity On Site	CERCLA Sara RQ	RQ in Gallons of Product
Acetylene	74-86-2	Welding Gas	Health: moderate toxicity Physical: toxic	990 cubic feet	NR	
Argon	7440-37-1	Welding Gas	Health: low toxicity Physical: non-flammable gas	1980 cubic feet	NR	
Carbon Dioxide	124-38-9	Welding Gas	Health: moderate toxicity Physical: non-flammable gas	556 lbs	NR	
Diesel Fuel	68476-34-6	Equipment refueling and emergency diesel fire pump	Health: low toxicity Physical: combustible	2800 gallons	NR	
Nitrogen	7727-37-9	HTF System	Health: low toxicity	2640 cubic feet	NR	
Oxygen	7782-44-7	Welding Gas	Health: low toxicity Physical: oxidizer	1320 cubic feet	NR	
Dow ThermA	101-84-8	Heat Transfer Fluid (HTF) through out solar array	Health: moderate toxicity Physical: irritant: combustible liquid (class III-B)	1800000 gallons	100 pounds	42 gallons
Sodium Hypochlorite	7681-52-9	Biological control	Health: low toxicity Physical: N/A	1320 gallons	100	82 gallons
Sodium Bisulfite (30%)	7631-90-5	Bleach reduction for RO	Health: High toxicity Physical: Corrosive	1320 gallons	5000 gallons	1617 gallons
Antiscalent	37971-36-1	Antiscalent RO	Health: low toxicity Physical: N/A	660 gallons	NR	
Caustic (50%)	1310-73-2	pH Adjustment	Health: Medium toxicity Physical: Corrosive and irritating to the eyes and skin	660 gallons	1000 pounds	157 gallons
Sulfuric Acid (93%)	7664-93-9	pH Adjustment	Health: Medium toxicity Physical:	2749 pounds	1000 pounds	70 gallons

## 2022 Annual Compliance Report - Genesis Solar LLC

			Corrosive and irritating to the eyes and skin			
Coagulant	10028-22-5	Solids reduction, lamella reducer	Health: Medium toxicity Physical: Corrosive and irritating to the eyes and skin	660 gallons	1000 pounds	253 gallons
Polymer	64742-47-8	Solids reduction, lamella reducer	Health: Medium toxicity Physical: Irritating to the eyes and skin	660 gallons	NR	
Ammonia Hydroxide (19.5%)	1336-21-6	pH Adjustment	Health: High toxicity Physical: Corrosive and irritating to the eyes and skin, can cause serious eye damage. Harmful if inhaled	660 gallons	1000 pounds	647 gallons
Phosphates	7601-54-9	phosphate treatment for steam generators	Health: Medium toxicity Physical: Irritating to the eyes and skin	660	5000 pounds	7275 gallons
Sodium Bromide	7647-15-6	Biological control	Health: High toxicity Physical: Corrosive and irritating to the eyes and skin, can cause serious eye damage. Harmful if inhaled	660 gallons	1000 pounds	900 gallons
Unleaded Gasoline	86290-81-5	Equipment refueling and emergency diesel fire pump	Health: low toxicity Physical: combustible	2000 gallons	NR	

## Section 24

### HAZ-6 Site Security Plan

*The project owner shall also prepare a site-specific security plan for the commissioning and operational phases that will be available to the CPM for review and approval. The project owner shall implement site security measures that address physical site security and hazardous materials storage. The level of security to be implemented shall not be less than that described below (as per NERC 2002).*

**Verification:** *At least thirty (30) days prior to the initial receipt of hazardous materials on site, the project owner shall notify the CPM that a site-specific operations site security plan is available for review and approval. In the annual compliance report, the project owner shall include a statement that all current project employee and appropriate contractor background investigations have been performed, and that updated certification statements have been appended to the operations security plan. In the annual compliance report, the project owner shall include a statement that the operations security plan includes all current hazardous materials transport vendor certifications for security plans and employee background investigations*

## 2022 Annual Compliance Report - Genesis Solar LLC

Due to national security measures, the security plan is not attached, however, the CPM has reviewed and approved the plan.

The following documentation is a record of the Affidavit of Compliance signed by the Plant General Manager complying with the CEC Haz-6 Condition of Certification.

**Certificate of Affidavit**

Genesis Solar, LLC

Chris Allen, Plant General Manager

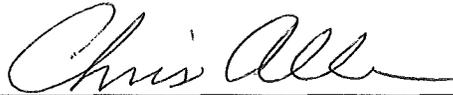
\_\_\_\_\_  
(Name of Person signing affidavit) (Title)

Do hereby certify that background investigations to ascertain the accuracy of the identity and employment history of all employees of

Genesis Solar, LLC

\_\_\_\_\_  
(Company name)

Have been conducted as directed by the California Energy Commission Decision for the above named project.



\_\_\_\_\_  
(Signature of Officer or Agent)

Dated this 30 day of March, 2023

*THIS AFFIDAVIT OF COMPLIANCE SHALL BE APPENDED TO THE PROJECT SECURITY PLAN AND SHALL BE RETAINED AT ALL TIMES AT THE PROJECT SITE FOR REVIEW BY THE CALIFORNIA ENERGY COMMISSION COMPLIANCE PROJECT MANAGER*

## Section 25

### **Soil&Water-1 Drainage Erosion & Sedimentation Control Plan**

**Verification:** *Once operational, the Project owner shall update and maintain the DESCOP for the life of the Project and shall provide in the annual compliance report information on the results of monitoring and maintenance activities.*

A significant rain event on October 15, 2022 caused erosion and damage to a fence in the southwestern portion of the Project area within the boundaries of National Register of Historic Places-eligible site CA-RIV-9072.

Areas of significant impact from the rain event are shown on the following pages.

Because the work area was inside an NRHP-eligible site, archaeological and tribal monitoring was present for all work completed outside the fence.

Genesis contracted with PaleoWest to coordinate and monitor all the work and archeological activities until the repairs and work was completed in December.

The detailed fence repair monitoring plan was submitted to BLM and CEC's CPM for review and approval prior to commencing the work.



# CULTURAL RESOURCE MONITORING PLAN FOR FENCE REPAIR AT THE GENESIS SOLAR ENERGY PROJECT, RIVERSIDE COUNTY, CALIFORNIA

Matthew Tennyson, M.A., RPA  
11/17/2022



**CULTURAL RESOURCE MONITORING PLAN FOR  
FENCE REPAIR AT THE GENESIS SOLAR ENERGY PROJECT,  
RIVERSIDE COUNTY, CALIFORNIA**

**Prepared by:**

Matthew Tennyson, M.A., RPA

**Prepared for:**

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11995 Wiley's Well Road  
Blythe, California 92225

and

U.S. Department of Interior,  
Bureau of Land Management  
1201 Bird Center Drive  
Palm Springs, California 92262

**PaleoWest, LLC**

3990 Old Town Avenue, Suite A105  
San Diego, California 92110  
(619) 210.0199

November 17, 2022

## MANAGEMENT SUMMARY

PaleoWest, LLC (PaleoWest) has been retained by Genesis Solar, LLC, a subsidiary of NextEra Energy Resources, to prepare a monitoring plan for the Genesis Solar Energy Project (Project), west of the city of Blythe, Riverside County, California. In October 2022, a rain event caused damage to a fence in the southwestern portion of the Project area within the boundaries of National Register of Historic Places-eligible site CA-RIV-9072. To repair the fence, the Project will need to operate equipment outside the fence, but within the permitted Project Right-of-way (ROW), to deposit and compact additional fill soils to restore the damaged portions of the tortoise exclusion fencing where previously compacted fill has eroded to the originally constructed elevation and slope grade. No excavation or other ground disturbance is required to repair damaged fencing.

Because the work area is inside an NRHP-eligible site, archaeological and tribal monitoring is required for any work completed outside the fence. Gates 9, 10, and 11 will be used for equipment to access the work area outside the fence. This plan outlines the requirements for archaeological monitoring during fence repair activities, depicts the work area to be monitored, and the requirements for any post-review discoveries encountered during monitoring.

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## INTRODUCTION

Genesis Solar, LLC, a wholly owned subsidiary of NextEra Energy Resources, LLC, owns and operates the Genesis Solar Energy Project (GSEP), a concentrated solar generating facility in eastern Riverside County, California (Project; Figure 1). In October 2022, a rain event caused damage to a fence in the southwestern portion of the Project area within the boundaries of National Register of Historic Places (NRHP)-eligible site, CA-RIV-9072 (Figure 2). To repair the fence, the Project will need to operate equipment outside the fence, but within the permitted Project Right-of-way (ROW), to deposit and compact additional fill soils to restore the damaged portions of the tortoise exclusion fencing where previously compacted fill has eroded to the originally constructed elevation and slope grade. No excavation or other ground disturbance is required to repair damaged fencing.

Archaeological monitoring took place during the construction of the original fence and was guided by a Historic Properties Treatment Plan (HPTP) (Farmer and Farrell 2011). Because the current work area is inside an NRHP-eligible site, archaeological and tribal monitoring is required for any work completed outside the fence. Gates 9, 10, and 11 will be used for equipment to access the work area outside the fence. This plan outlines the requirements for archaeological monitoring during fence repair activities, depicts the work area to be monitored, and the requirements for any post-review discoveries encountered during monitoring.

## PROJECT LOCATION

The Project area is in the central portion of the Chuckwalla Valley in eastern Riverside County, in portions of Sections 4, 5, 8, 9, 10, 11, 14, and 15 of Township 6 South, Range 19 East. The Project extends across portions of both the Ford Dry Lake and McCoy Spring 7.5-minute U.S. Geological Survey (USGS) topographic quadrangles. The east-southeast-trending Chuckwalla Valley is typical of California's Mojave Desert Geomorphic Province, which is characterized by east-west-trending ranges separated by desert valleys with enclosed drainages and dry lakes. The GSEP is bordered to the north by the Palen Mountains, to the northeast by the McCoy Mountains, to the south by the Little Chuckwalla Mountains, and to the west by the Chuckwalla Mountains.

## PREVIOUS RESEARCH

For a detailed description and overview of the previous research done for the Project area, including information on all records searches and cultural resource surveys conducted on the Project, please see the Project Final Cultural Resources Report (AECOM 2016).

## CULTURAL RESOURCES PREVIOUSLY IDENTIFIED WITHIN THE PROJECT AREA

The work area for this undertaking is located wholly within the boundaries of NRHP-eligible site CA-RIV-9072. For a detailed description and overview of other previously identified cultural resources within the Project area, please see the *Cultural Resources Report for the Genesis Solar Energy Project (09-AFC-8), Riverside County, California* report (AECOM 2016).



Figure 1. Project location map.

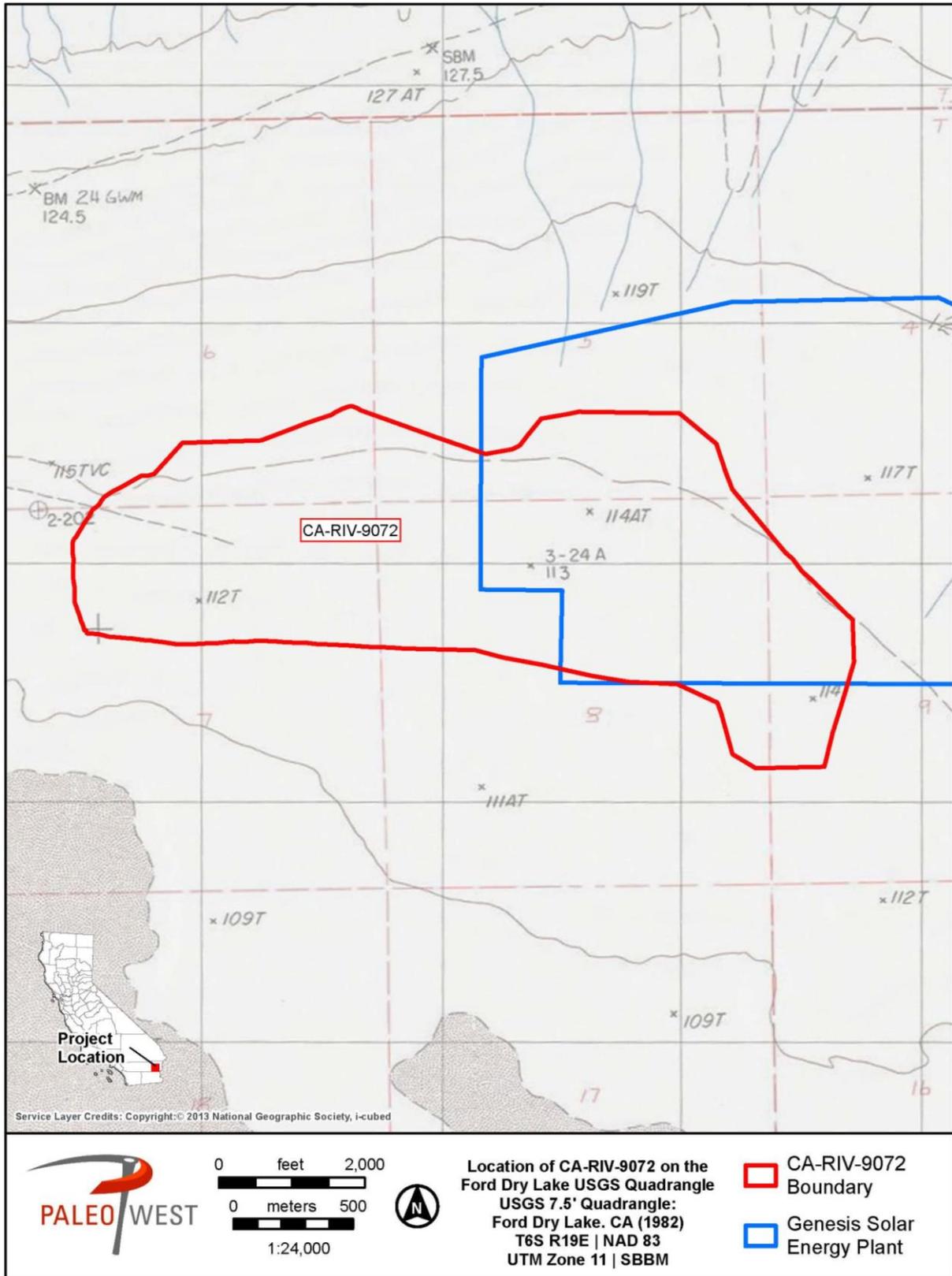


Figure 2. CA-RIV-9072 location map.

# MONITORING PROGRAM

## DESCRIPTION

To repair the damaged fence and rebuild collapsed berms in the southwestern portion of the Project area, construction equipment must travel outside the permanent fence and across the boundaries of CA-RIV-9072, an NRHP-eligible archaeological site. Archaeological monitoring will be required to observe any ground disturbing activities, including overland travel within the boundaries of CA-RIV-9072 (Figure 3).

## REGULATORY CONTEXT FOR CONSTRUCTION MONITORING

Numerous federal and state laws, ordinances, regulations, and standards govern the management of cultural resources. For the GSEP, the Bureau of Land Management (BLM) is the lead federal agency overseeing compliance with the National Environmental Policy Act (NEPA) and Section 106 of the National Historic Preservation Act (NHPA) and its attendant regulations. The California Energy Commission (CEC) is the lead state agency under the California Environmental Quality Act (CEQA) framework. For a detailed description of the regulatory framework governing the various phases of the Project, including for construction monitoring, please review copies of the Project's HPTP (Farmer and Farrell 2011) and cultural resource report (AECOM 2016).

## CONSTRUCTION MONITORING PROTOCOLS

The archaeological monitor will be listed as a Field Director on a Cultural Resource Use Permit and will have authority to halt construction activities to investigate any potentially new constituent, be it a feature and/or previously undocumented artifact, within the work area boundaries inside CA-RIV-9072. If any new site constituent is identified, avoidance will be the preferred method of treatment. When feasible, construction equipment will be directed to avoid the item while staying within the Project ROW. At no time will equipment be permitted to leave the Project ROW. All newly identified site constituents will be reported to the BLM Palm Springs-South Coast Field Office. No collection of cultural materials will take place.

The monitor will document all activities via a daily monitoring log, to be transmitted to the BLM Palm Spring-South Coast Field Office at the end of construction-related activities.

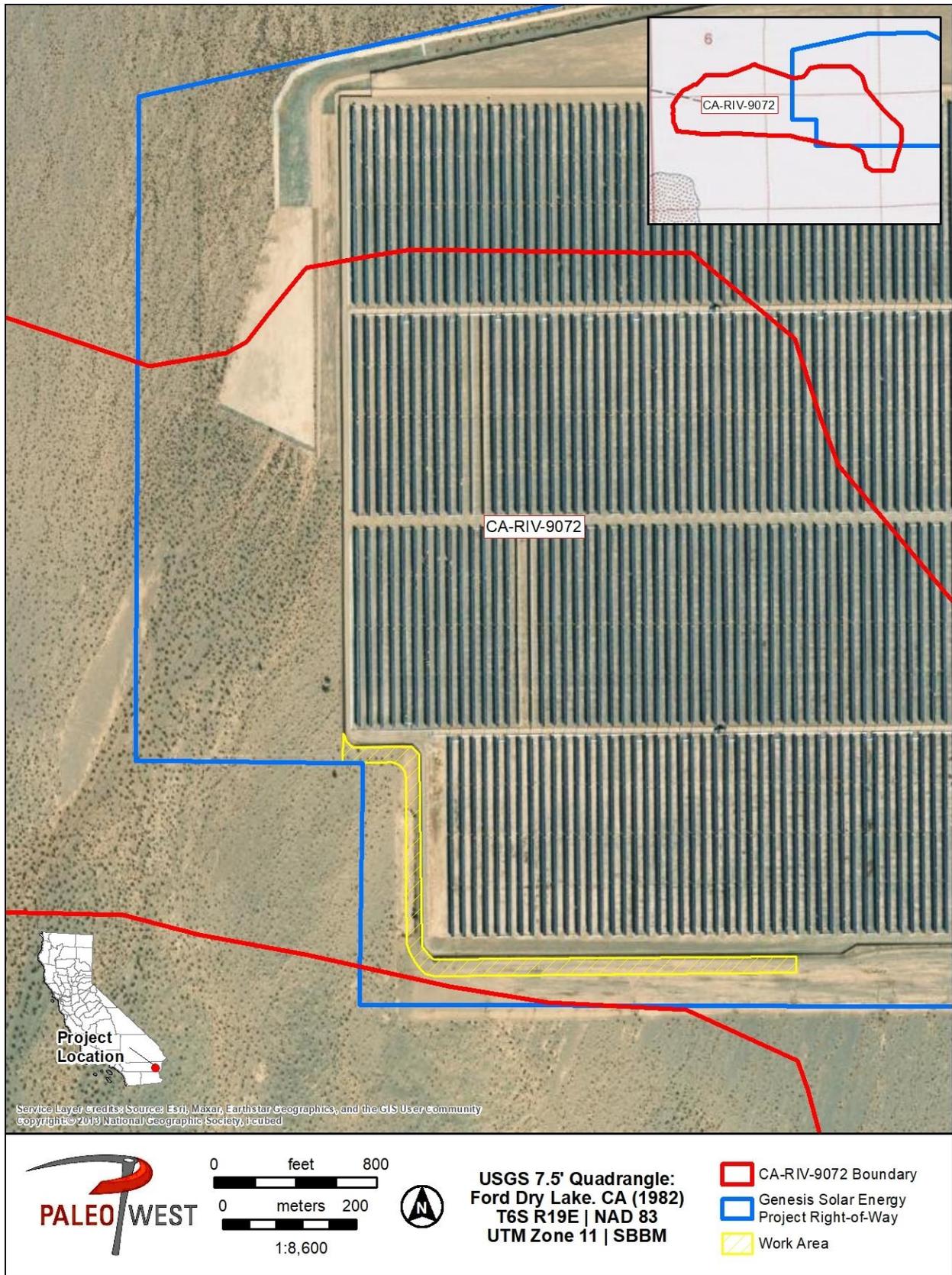


Figure 3. GSEP location map with ROW.

## REFERENCES

AECOM

2016 Cultural Resources Report for the Genesis Solar Energy Project (09-AFC-8), Riverside County, California. Prepared for Genesis Solar, LLC by AECOM.

Farmer, Reid, and Jenna Farrell

2011 Historic Properties Treatment Plan for the Genesis Solar Energy Project (09-AFC-8), Riverside County, California. Prepared for Genesis Solar, LLC by Tetra Tech EC, Inc.



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## Section 26

### Soil&Water 2

**Verification:** *During Project operation, the Project owner shall submit to the CPM, applicable quarterly, semi-annual and annual reports presenting all the data and information required. Quarterly reports shall be submitted to the CPM thirty (30) days following the end of the quarter. The 4th quarter report shall serve as the annual report and will be provided on January 31 in the following year.*

*The Project owner shall submit to the both the CPM all calculations and assumptions made in development of report data and interpretations, calculations, and assumptions used in development of any reports.*

*j. After the first five year operational and monitoring period, the Project owner shall submit a 5-year monitoring report to the CPM that submits all monitoring data collected and provides a summary of the findings. The CPM will determine if the water level measurement frequencies should be revised or eliminated.*

All quarterly, semi-annual and annual reports were submitted to the CPM on a timely basis. Genesis staff has submitted electronic copies to the CPM and copies are maintained on file at the facility. Reports are not included as an attachment due to their data size.

## Section 27

### Soil&Water 5

**Verification:** *At least thirty (30) days prior to the start of construction of the proposed Project, the Project owner shall submit to the CPM a copy of evidence that metering devices have been installed and are operational.*

*Beginning six (6) months after the start of construction, the Project owner shall prepare a semi-annual summary of amount of water used for construction purposes. The summary shall include the monthly range and monthly average of daily water usage in gallons per day.*

*The Project owner shall prepare an annual summary, which will include monthly range and monthly average of water usage in gallons per month, and total water used on an annual basis in acre-feet. For years subsequent to the initial year of operation, the annual summary will also include the yearly range and yearly average water use by source. For calculating the total water use, the term "year" will correspond to the date established for the annual compliance report submittal.*

## 2022 Annual Compliance Report - Genesis Solar LLC

2022 Water Usage for Genesis Solar, LLC:

Volume of Water Required (in gallons)	Sanitation	Landscaping	Solar Mirror Washing	Dust Suppression	Other Water Use	Total
Jan-22	65,424	0	149,494	0	2,257,605	2,472,523
Feb-22	63,950	0	141,868	0	2,138,733	2,344,551
Mar-22	63,105	0	220,231	0	2,791,035	3,074,371
Apr-22	56,297	0	149,197	0	2,956,652	3,162,146
May-22	82,887	0	178,317	0	3,402,809	3,664,013
Jun-22	72,176	0	126,884	0	3,842,175	4,041,235
Jul-22	69,605	0	119,321	0	4,198,862	4,387,788
Aug-22	76,554	0	103,054	0	3,673,942	3,853,550
Sep-22	54,074	0	155,929	0	3,592,385	3,802,388
Oct-22	55,657	0	165,105	0	2,302,125	2,522,887
Nov-22	70,800	0	332,992	0	2,657,382	3,061,174
Dec-22	<b>71,623</b>	<b>0</b>	<b>67,468</b>	<b>0</b>	<b>2,479,674</b>	<b>2,618,765</b>

## Section 28

### Soil&Water-13 Channel Maintenance Program

#### Channel Maintenance Plan:

#### 7. Reporting

As part of the Project Annual Compliance Report to the CPM, submit a Channel Maintenance Program Annual Report specifying which maintenance activities were completed during the year including type of work, location, and measure of the activity (e.g. cubic yards of sediment removed). The Channel Maintenance Program Annual Report will include which maintenance activities were completed during the year including type of work, location, and measure of the activity (e.g. cubic yards of sediment removed), a report describing "Lessons Learned" to evaluate the effectiveness of both resource protection and maintenance methods used throughout the year and establish policies to ensure that resources would be protected to the fullest extent feasible during routine channel maintenance activities.

**Verification:** At least sixty (60) days prior to the start of any project-related activities (not including linear), the Project owner shall coordinate with the CPM to develop the Channel Maintenance Program. The Project owner shall submit two copies of the programmatic documentation, describing the proposed Channel Maintenance Program, to the CPM (for review and approval). The Project owner shall provide

## 2022 Annual Compliance Report - Genesis Solar LLC

*written notification that they plan to adopt and implement the measures identified in the approved Channel Maintenance Program.*

The Channel Maintenance Plan was submitted Feb 12, 2013 and subsequently approved by the CPM.

No maintenance activities on the channel occurred in 2022.

## Section 29

### **Soil&Water-16 Groundwater Production Report**

**Verification:** *The Project owner shall file an annual "Notice of Extraction and Diversion of Water" with the SWRCB in accordance with Water Code Sections 4999 et. seq. The Project owner shall include a copy of the filing in the annual compliance report.*

Copies of the filed Extraction Reports are shown below:

**ANNUAL NOTICE OF GROUNDWATER EXTRACTION & DIVERSION FOR 2022****Water Right ID  
G333093****Primary Owner  
GENESIS SOLAR LLC****INVOICE**

Your Notice of Groundwater Extraction & Diversion (G333093) has been successfully submitted.

Please mail a check or money order for the \$50.00 filing fee along with a printout of this invoice to the following address:

State Water Resources Control Board  
Division of Water Rights  
PO Box 2000  
Sacramento, CA 95812-2000

Check or money order should indicate your recordation number(s) and be made payable to: State Water Resources Control Board.

Do not send cash.

DEADLINE: Payment must be postmarked no later than February 1, 2023 in order to be recorded.

THIS SPACE FOR OFFICE USE ONLY R. \_\_\_\_\_ AMT: \_\_\_\_\_

**ELECTRONIC PAYMENT/AUTOMATIC CLEARINGHOUSE (ACH)**

If you are paying electronically, include your groundwater recordation number when submitting your payment. Click the following link to visit the [SWRCB Make a Payment webpage](#). Select the "Application Fees" box, then scroll to the bottom of the page and enter your application number **RAG33309322**.

After printing this invoice screen, please click the 'Return to List of Reports' button below to view reports for this Recordation Number. The listing will give you the option of printing the submitted report for your records.

[Return to List of Reports](#)

**[SUMMARY OF FINAL SUBMITTED VERSION]****ANNUAL NOTICE OF GROUNDWATER EXTRACTION AND DIVERSION FOR  
REPORTING PERIOD**

October 1, 2021 to September 30, 2022

Primary Owner: GENESIS SOLAR LLC

Recordation Number: G333093

Date Submitted: 2023-02-01

<b>Reporting to a Local Agency</b>	
Local Agency	Submitter does not report to a local agency.

<b>Type(s) of Diversion</b>	
Surface Diversion	None

<b>Amount of Groundwater Extracted During Calendar Year</b>	
Amount Extracted	119.7030 Acre-Feet

<b>Amount of Surface Water Diverted or Used</b>	
Not applicable; Surface Diversion was not chosen as a type of diversion.	

<b>Maximum Rate of Surface Water Diversion</b>	
Not applicable; Surface Diversion was not chosen as a type of diversion.	

<b>Method of Measurement</b>	
Method of Measurement	Water Meter

<b>Type(s) of Use</b>	
Other	Operations water supply

<b>Special Use Categories</b>	
Are you using any water diverted under this right for the cultivation of cannabis?	No

<b>Supplemental Information</b>	
Supplemental Information	Extraction well PW-2

<b>Attachments</b>		
File Name	Description	Size
No Attachments		

<b>Contact Information of the Person Submitting the Form</b>	
First Name	Arlin
Last Name	Brewster
Relation to Water Right	Agent
Has read the form and agrees the information in the report is true to the best of his/her knowledge and belief	Yes

<b>Information on Certification and Signatory</b>	
Name of Person Signing and Certifying the Report	Arlin Brewster

Date of Signature	02/01/2023
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**[SUMMARY OF FINAL SUBMITTED VERSION]****ANNUAL NOTICE OF GROUNDWATER EXTRACTION AND DIVERSION FOR  
REPORTING PERIOD**

October 1, 2021 to September 30, 2022

Primary Owner: GENESIS SOLAR LLC

Recordation Number: G333094

Date Submitted: 2023-02-01

<b>Reporting to a Local Agency</b>	
Local Agency	Submitter does not report to a local agency.

<b>Type(s) of Diversion</b>	
Surface Diversion	None

<b>Amount of Groundwater Extracted During Calendar Year</b>	
Amount Extracted	0 Acre-Feet

<b>Amount of Surface Water Diverted or Used</b>	
Not applicable; Surface Diversion was not chosen as a type of diversion.	

<b>Maximum Rate of Surface Water Diversion</b>	
Not applicable; Surface Diversion was not chosen as a type of diversion.	

<b>Method of Measurement</b>	
Method of Measurement	

<b>Type(s) of Use</b>	
No types selected.	

<b>Special Use Categories</b>	
Are you using any water diverted under this right for the cultivation of cannabis?	

<b>Supplemental Information</b>	
Supplemental Information	

<b>Attachments</b>		
File Name	Description	Size
No Attachments		

<b>Contact Information of the Person Submitting the Form</b>	
First Name	Arlin
Last Name	Brewster
Relation to Water Right	Agent
Has read the form and agrees the information in the report is true to the best of his/her knowledge and belief	Yes

<b>Information on Certification and Signatory</b>	
Name of Person Signing and Certifying the Report	Arlin Brewster

Date of Signature	02/01/2023
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**[SUMMARY OF FINAL SUBMITTED VERSION]****ANNUAL NOTICE OF GROUNDWATER EXTRACTION AND DIVERSION FOR  
REPORTING PERIOD**

October 1, 2021 to September 30, 2022

Primary Owner: GENESIS SOLAR LLC

Recordation Number: G333095

Date Submitted: 2023-02-01

<b>Reporting to a Local Agency</b>	
Local Agency	Submitter does not report to a local agency.

<b>Type(s) of Diversion</b>	
Surface Diversion	None

<b>Amount of Groundwater Extracted During Calendar Year</b>	
Amount Extracted	1.6820 Acre-Feet

<b>Amount of Surface Water Diverted or Used</b>	
Not applicable; Surface Diversion was not chosen as a type of diversion.	

<b>Maximum Rate of Surface Water Diversion</b>	
Not applicable; Surface Diversion was not chosen as a type of diversion.	

<b>Method of Measurement</b>	
Method of Measurement	Water Meter

<b>Type(s) of Use</b>	
Other	Operations water supply

<b>Special Use Categories</b>	
Are you using any water diverted under this right for the cultivation of cannabis?	No

<b>Supplemental Information</b>	
Supplemental Information	

<b>Attachments</b>		
File Name	Description	Size
No Attachments		

<b>Contact Information of the Person Submitting the Form</b>	
First Name	Arlin
Last Name	Brewster
Relation to Water Right	Agent
Has read the form and agrees the information in the report is true to the best of his/her knowledge and belief	Yes

<b>Information on Certification and Signatory</b>	
Name of Person Signing and Certifying the Report	Arlin Brewster

Date of Signature	02/01/2023
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## Section 30

### **Soil&Water-6 Waste Discharge Requirements**

*The Project owner shall pay the annual waste discharge permit fee associated with this facility to the Water Boards. In addition, the Water Boards may "prescribe" these requirements as waste discharge requirements pursuant to Water Code Section 13263 solely for the purposes of enforcement, monitoring, inspection, and the assessment of annual fees, consistent with Public Resources Code Section 25531, subdivision (c)*

The fees were paid in February 2023.

## Section 31

### **VIS-1 Surface Treatment of Non-Mirror Project Structures and Buildings**

**Verification:** *At least 30 days prior to specifying to the vendor the colors and finishes of the first structures or buildings that are surface treated during manufacture, the project owner shall submit the proposed treatment plan to the CPM for review and approval and simultaneously to Riverside County for review and comment. If the CPM determines that the plan requires revision, the project owner shall provide to and the CPM a plan with the specified revision(s) for review and approval by the CPM before any treatment is applied. Any modifications to the treatment plan must be submitted to the CPM for review and approval.*

*Upon completion of construction of specific facility structures, the project owner shall notify the CPM that surface treatment of that structure or building has been completed and is ready for inspection and shall submit to each one set of electronic color photographs of the structure.*

*The project owner shall provide a status report regarding surface treatment maintenance in the Annual Compliance Report. The report shall specify a) the condition of the surfaces of all structures and buildings at the end of the reporting year; b) maintenance activities that occurred during the reporting year; and c) the schedule of maintenance activities for the next year.*

Reporting Year Building conditions: Moderate weathering on exterior structures

Reporting Year Maintenance Activities: None

Next Year's Planned Maintenance Activities: None

## Section 32

### WASTE-9 Operations Waste Management Plan

**Verification:** *The project owner shall submit the Operation Waste Management Plan to the CPM for approval no less than 30 days prior to the start of project operation. The project owner shall submit any required revisions to the CPM within 20 days of notification from the CPM that revisions are necessary.*

*The project owner shall also document in each Annual Compliance Report the actual volume of wastes generated and the waste management methods used during the year; provide a comparison of the actual waste generation and management methods used to those proposed in the original Operation Waste Management Plan; and update the Operation Waste Management Plan as necessary to address current waste generation and management practices.*

The following table summarizes the actual 2022 hazardous waste shipments compared to the facility Waste Management Plan. The Waste Management Plan will be updated to reflect the facility's current waste generation and management practices as shown on the table.

Haz shipments table

Table 1. 2022 Genesis Solar Energy Center Waste Streams and Volume

Operations Waste Stream	Waste Hazard Classification	Planned disposal method		OWMP Estimated Annual Generation Amount	Actual Quantity of Waste Generated	Actual disposal method (if same as original plan indicate "same")
Scrap wood, class, solar mirrors, plastic, paper, class III garbage	Nonhazardous solids	Waste Hauler	Disposal Facility	25,000 pounds	245,000 pounds	Same
		CRR	RCL			
Spent lead acid batteries	Universal waste	Waste Hauler	Disposal Facility	50 pounds	1,225 pounds	Same
		MPE	SSW			
Spent rechargeable batteries (lithium-ion and nickel cadmium)	Universal waste	Waste Hauler	Disposal Facility	25 pounds	20 pounds	Same
		MPE	SSW			
Spent alkaline batteries	Universal waste	Waste Hauler	Disposal Facility	25 pounds	50 pounds	Same
		MPE	SSW			
Fluorescent, mercury vapor lamps	Universal waste	Waste Hauler	Disposal Facility	25 pounds	18 pounds	Same
		DES	MDS			
Electronic Waste	Universal waste	Waste Hauler	Disposal Facility	200 pounds	150 pounds	Same
		DES	MDS			
Used oil (hydraulic fluid, motor oils, lube oils, grease)	Hazardous liquids	Waste Hauler	Disposal Facility	250 gallons	850 gallons	Same
		WO	WO			
Used oil and water (from oily water separators)	Hazardous liquids	Waste Hauler	Disposal Facility	50 pounds	0 pounds	Same
		MPE	CHA			
Used oil filters	Hazardous solids	Waste Hauler	Disposal Facility	100 pounds	0 pounds	Same
		MPE	CHA			
Oily rags and absorbents	Hazardous liquids	Waste Hauler	Disposal Facility	500 pounds	1,600 pounds	Same
		MPE, DES	CHA, CHG, AAS			
Liquid lab waste	Hazardous liquids	Waste Hauler	Disposal Facility	500 pounds	0 pounds	Same
		MPE	CHA			
Solvents, paint, adhesives	Hazardous liquids	Waste Hauler	Disposal Facility	50 pounds	0 pounds	Same
		MPE	CHA			

HTF soil	Hazardous waste solids	Waste Hauler	Disposal Facility	2,000 pounds	0 pounds	Same
		MPE	CHA			
HTF unit carbon absorption filters	Hazardous waste solids	Waste Hauler	Disposal Facility	5 tons	17 tons	Same
		DES	C&O			
HTF contaminated debris	Hazardous waste solids	Waste Hauler	Disposal Facility	500 pounds	3200 pounds	Same
		MPE	CHA			
Used HTF with water	Hazardous liquids	Waste Hauler	Disposal Facility	4,000 gallons	650 Gallons	Same
		MPE	CHA,CHG			

#### Waste Hauler Listing

Abbreviation	Name	City/State
CRR	CR&R	Stanton, CA
MPE	MP Environmental	Phoenix, AZ
DES	Desert Environmental Services	Victorville CA
WO	World Oil	Compton, CA

#### Disposal Facility Listing

Abbreviation	Name	City/State
AAS	AA Sydcoll LLC	Yuma, AZ
CHA	Clean Harbors Arizona	Phoenix, AZ
CHG	Clean Harbors Grassy Mountain	Grantsville, UT
CHU	Clean Harbors Aragonite	Aragonite, UT
C&O	Crosby and Overton	Long Beach, CA
MDS	Mercury Disposal Systems Inc.	Tustin, CA
RCL	Riverside County Landfill	Blythe, CA
RT	Recicladora Temarry de Mexico	Tecate, BC Mexico
SSW	Stericycle Specialty Waste	Phoenix, AZ
WO	World Oil	Compton, CA

## Section 33

### **WORKER SAFETY-9 Joint Training Exercises with RCFD**

A joint fire drill training exercise with the Riverside County Fire Department was staged on May 19, 2022.

The staged scenario being a tube rupture at the south end of 2EG15, with a fire that prevented the isolation of that loop.

The plant remained on-line and at full power during the drill.

Drill summary documents attached:

## Genesis annual fire drill with offsite response, May 19, 2022

### Summary

0955 The fire drill was commenced, the scenario being a tube rupture at the south end of 2EG15, with a fire that prevented the isolation of that loop.

The plant remained on-line and at full power during the drill.

0957 Riverside County Fire Department, Engine 45, was called. We called the fire station vice 911 as part of the agreement with the fire department.

1005 Solar field (simulated) to emergency T-Follow

1006 Mid-East Sector was attempted to be isolated (simulated) from the control room but (drill simulation) the MOVs for that section did not operate.

1008 Mid-East Sector was (simulated) isolated via manual isolation valves.

1011 all onsite personnel accounted for.

1012 all traffic gates were opened for the fire department to access the site

1020 fire department on-site at the outer gate

1030 fire department at scene

1033 fire drill concluded.

1050 debrief was held with the fire department

### **Goals:**

#### **Problem solving:**

The team successfully identified the fault and isolated it.

#### **Communications:**

The team learned from the lesson and gained valuable insight into dealing with the stresses of the scenario.

The team effectively used a different radio channel for other communications not directly related to the plant casualty.

It took the team 2 ½ minutes to notify the fire department, part of which was the alternate phone number we used for the drill.

#### **Response**

The fire department was on site 23 minutes after being called, which is a normal response time from experience.

**Findings:**

The solar field manual isolation valves were not labeled

Identify and label all solar field manual isolations – Averell Rose

**Outcomes:**

The control room team was happy with the experience and to learn how to do the things they need to in a plant casualty.

Fie Captain Kitchens was happy with the response of the site, reiterated that we need to do the FRO portions of the Hazmat response – Safety, Isolate, Notify

Riverside County Fire Dept companies/shifts may call for plant walkdowns, and we need to accommodate them. The more we interact with them during normal conditions, the better we can communicate in an emergency. They were amazed that they didn't realize how different our site is from the PV plants nearer to their station.

Overall, this was a good and effective drill, and all the participants learned something by participating.

## Section 34

### WORKER SAFETY-7 Payment to RCFD

*Annual payment to RCFD for the support of three fire department staff commencing with the date of site mobilization and continuing annually thereafter on the anniversary until the final date of power plant decommissioning.*

Proof of payment to County of Riverside follows

## Display Check Information

 Check recipient |  Check issuer... |  Accompanying docs |  Payment document

Paying Company Code

6209

Payment document no.

2000019026

### Bank details

House Bank

Bank Key

Account ID

Bank Account

Bank Name

City

### Check information

Check number

5000003102

Currency

USD

Payment date

02/03/2022

Amount paid

375,000.00

Check encashment

02/17/2022

Cash discount amount

0.00

### Check recipient

Name

COUNTY OF RIVERSIDE

City

PERRIS

Payee's country

US

Regional code

CA

## Section 35

### COMPLIANCE-5 – Compliance Matrix

**California Energy Commission  
Compliance Matrix 09-AFC-8**

<b>Condition of Certification</b>	<b>Title</b>	<b>Description</b>	<b>Status</b>
AQ-SC6	Fleet Plan for operations vehicles	Update Fleet Plan every other year. Submit the Fleet Plan with Annual Report.	Ongoing
AQ-SC8	Air permit submittals	Submit all modified or revised ATC/PTO documents and all federal air permits.	Ongoing
AQ-1	Equipment Operation, Application Requirements - NG boilers	Operate NG boilers in compliance with all data and specifications submitted with application.	Ongoing
AQ-2	Equipment fuel Use, Manufacturer Specifications - NG boilers	Fuel equipment only with NG. Operate and maintain in accordance with manufacturer recommendations.	Ongoing
AQ-3	Emissions limits, reporting - NG boilers	Emissions shall not exceed the following hourly emission limits (see full text)	Ongoing
AQ-3	Emissions limits, reporting - NG boilers	Submit emissions compliance documentation in Annual Compliance Report.	Ongoing
AQ-4	Maintenance and Operations Log - NG boilers	Maintain an operations log on-site and current for a minimum of five (5) years.	Ongoing
AQ-4	Maintenance and Operations Log - NG boilers	Make the site available to the District, ARB, and the Energy Commission for inspection of records.	Ongoing
AQ-7	Annual MDAQMD Compliance Test - NG boilers	Perform annual MDAQMD compliance tests.	Ongoing
AQ-7	Annual MDAQMD Compliance Test - NG boilers	Submit results report to the District no later than six weeks prior to the expiration date of this permit.	Ongoing
AQ-9	HTF Ullage/Exp. Tanks - HTF storage	Ullage tanks - This system shall store only HTF.	Ongoing
AQ-10	HTF Ullage/Exp. Tanks - Carbon absorption system	Monitor VOC output, sample weekly. Calibrate FID on day of use. Maintain log of weekly sampling results and keep log onsite. Provide sampling log to District upon request.	Ongoing
AQ-10	HTF Ullage/Exp. Tanks - Carbon absorption system	Operate ullage tanks system with the carbon adsorption system. <i>[VOC and Benzene emissions cap, see full text]</i>	Ongoing
AQ-10	HTF Ullage/Exp. Tanks - Carbon absorption system	Submit compliance documentation in Annual Compliance Report.	Ongoing
AQ-10	HTF Ullage/Exp. Tanks - Carbon absorption system	Submit a yearly summary report of all VOC emissions.	Ongoing
AQ-12	HTF Ullage/Exp. Tanks- Inspection, Maintenance and Monitoring Plan	Make the site available to the District, ARB, and the Energy Commission for inspection of records.	Ongoing
AQ-12	HTF Ullage/Exp. Tanks- Inspection, Maintenance and Monitoring Plan	Submit volume of HTF removed and added in Annual Report.	Ongoing
AQ-15	HTF Ullage/Exp. Tanks - Annual MDAQMD Compliance Testing and Reporting	Make the site available to the District, ARB, and the Energy Commission for inspection of records.	Ongoing
AQ-15	HTF Ullage/Exp. Tanks - Annual MDAQMD Compliance Testing and Reporting	Perform annual compliance tests in accordance with the MDAQMD Compliance Test Procedural Manual.	Ongoing
AQ-15	HTF Ullage/Exp. Tanks - Annual MDAQMD Compliance Testing and Reporting	Submit test results and report to the District no later than six weeks prior to the expiration date of this permit.	Ongoing
AQ-15	HTF Ullage/Exp. Tanks - Annual MDAQMD Compliance Testing and Reporting	Retain all annual test records for 5 yrs.	Ongoing
AQ-16	HTF Ullage/Exp. Tanks - Emission rate caps	Include Ullage/tank emission rate caps compliance documentation in Annual Report.	Ongoing
AQ-16	HTF Ullage/Exp. Tanks - Emission rate caps	Maintain emission rates below specified volumes.	Ongoing
AQ-17	HTF Ullage/Exp. Tanks - Regulated Substances	Submit a Compliance Plan of the toxic or hazardous substances if current non-criteria substances in the HTF become regulated as toxic or hazardous substances.	Ongoing
AQ-18	Equipment Operation, Application Requirements - Cooling Towers	Operate cooling towers in compliance with all data and specifications submitted in application.	Ongoing
AQ-19	Equipment Operation Manufacturer Specifications - Cooling Towers	Operate cooling towers in compliance with all manufacturer specifications.	Ongoing
AQ-20	Drift Eliminator Monitoring and Reporting - Cooling Towers	Comply with drift rate emissions cap ( <i>see full text</i> ).	Ongoing
AQ-20	Drift Eliminator Monitoring and Reporting - Cooling Towers	Submit compliance documentation on operating emission rates with Annual Report.	Ongoing
AQ-24	Maintenance and Operation Log - Cooling Tower	Maintain operations log onsite for 5 years.	Ongoing
AQ-24	Maintenance and Operation Log - Cooling Tower	Make site available for inspection of records and equipment by representatives of the District, ARB, and the Energy Commission.	Ongoing
AQ-25	Drift Eliminator Maintenance Procedures	Make available compliance documentation for inspection by representatives of the District, ARB, and the Energy Commission	Ongoing
AQ-26	Equipment Operation Manufacturer Specifications - 341HP generators	Operate generators in compliance with all manufacturer specifications.	Ongoing
AQ-27	Fuel Restrictions - 341 HP generators	Use only ultra-low sulfur diesel fuel. Retain fuel purchase records.	Ongoing
AQ-29	Operating Time Restrictions - 341 HP generators	Use limited to emergency power. Operate no more than 50hr/yr for testing and maintenance.	Ongoing
AQ-30	Operations and Maintenance log - 341 HP generators	Maintain a operations log for a minimum of two years.	Ongoing

**California Energy Commission  
Compliance Matrix 09-AFC-8**

<b>Condition of Certification</b>	<b>Title</b>	<b>Description</b>	<b>Status</b>
AQ-30	Operations and Maintenance log - 341 HP generators	Make records available to the District for three years.	Ongoing
AQ-30	Operations and Maintenance log - 341 HP generators	Submit compliance documentation in Annual Report.	Ongoing
AQ-30	Operations and Maintenance log - 341 HP generators	Make site and records available for inspection by representatives of the District, ARB, and the Energy Commission.	Ongoing
AQ-31	Voluntary Power Outage Use - 341 HP generators	Do not use generators during a voluntary power outage or reduction.	Ongoing
AQ-32	Involuntary Power Outage Use - 341 HP generators	Operate generators <30 minutes pt ordered outage. Shut down immediately after advised that the outage is no longer imminent or in effect.	Ongoing
AQ-33	ATCM Compliance - 341 HP generators	Operate and maintain equipment in accordance with ATCM for Stationary Compression Ignition Engines.	Ongoing
AQ-34	NSPS Compliance -341 HP generators	Operate and maintain equipment in compliance with requirements of the NSPS for Stationary Compression Ignition Internal Combustion Engines.	Ongoing
AQ-35	Equipment Specification Compliance - 315 HP fire pump engines	Install, operate and maintain equipment in accordance with manufacture recommendations and with all data and specifications submitted with permit application.	Ongoing
AQ-36	Fuel Restrictions - 315 HP fire pump engines	Use only ultra-low sulfur diesel fuel for equipment.	Ongoing
AQ-38	Operating time restrictions - 315 HP fire pump engines	Limit use for emergency power. Operate < 50hrs/yr for testing.	Ongoing
AQ-39	Operations and Maintenance log - 315 HP fire pump engines	Maintain an operations log for this unit current and on-site, for three years.	Ongoing
AQ-39	Operations and Maintenance log - 315 HP fire pump engines	Submit compliance documentation in Annual Report.	Ongoing
AQ-40	ATCM Compliance - 315 HP fire pump engines	Operate and maintain equipment in accordance with ATCM for Stationary Compression Ignition Engines.	Ongoing
AQ-41	NSPS Compliance - 315 HP fire pump engines	Operate and maintain equipment in compliance with requirements of the NSPS for Stationary Compression Ignition Internal Combustion Engines.	Ongoing
AQ-43	Gas tank and pump - inspection and maintenance records	Maintain an inspection, repair and maintenance log onsite for at least two years.	Ongoing
AQ-44	Gas tank and pump - piping or vapor recovery modifications	Submit any modification to the piping or control fitting of the vapor recovery system for review and approval.	Ongoing
AQ-45	Gas tank and pump - Vapor vent piping	Equip the vapor vent pipes with Husky 5885 pressure relief valves or as otherwise allowed by EO.	Ongoing
AQ-46	Gas tank and pump - initial and annual testing	Perform pressure, leak and liquid removal tests annually. Document test data on a Form similar to EO VR-401-A Form 1	Ongoing
AQ-46	Gas tank and pump - initial and annual testing	Perform pressure, leak and liquid removal tests within 60 days of construction completion. Document test data on a Form similar to EO VR-401-A Form 1	Ongoing
AQ-46	Gas tank and pump - initial and annual testing	Make test results available to CPM upon request.	Ongoing
AQ-46	Gas tank and pump - initial and annual testing	Submit passing test reports to District.	Ongoing
AQ-47	Gas tank and pump - aboveground tank and vapor recovery system compliance	Install and maintain aboveground storage tank and vapor recovery system in compliance with California Health and Safety Code.	Ongoing
AQ-48	Gas tank and pumps - certified technician	Maintenance and repair of system components shall be performed by OPW Certified Technicians.	Ongoing
AQ-49	Gas tank and pumps - maintenance intervals	Maintenance Intervals shall be conducted by an OPW trained technician annually.	Ongoing
AQ-51	Gas tank and pumps - EVR phase I and II	Maintain, and operate EVR Phase I in compliance with CARB Executive Order VR-401-A, and Phase II vapor recovery in accordance with G-70-116-F.	Ongoing
BIO-4	Biological Monitors - responsibilities	Employ a Bio Mon during operations if any action could affect a sensitive bio resource.	Ongoing
BIO-6	Worker Environmental Awareness Program (WEAP)	Conduct training annually for perm. Employees and within one week of arrival for new staff.	Ongoing
BIO-6	Worker Environmental Awareness Program (WEAP)	Conduct WEAP training to all onsite personnel within one week of arrival. Employees must sign a completion form and display a hardhat sticker. Keep all training forms on site.	Ongoing
BIO-6	Worker Environmental Awareness Program (WEAP)	Keep signed training forms on site for >6m after start of operations and 6m after staff dismissal.	Ongoing
BIO-13	Raven Management Plan	Include the status of the Raven Management Plan implementation in Jan 31 report during operations.	Ongoing
BIO-14	Weed Management Plan	Submit a status report of Weed Management Plan implementation in Jan 31 report during operation.	Ongoing
BIO-15	Pre-construction Nest Surveys and Avoidance Measures	Submit summary report of nest buffer zones in Jan 31 report during operations.	Ongoing
BIO-21	Evaporation Pond Netting and Monitoring	Submit quarterly reports to agencies for first year of operation. Thereafter, submit reports annually.	Ongoing
BIO-21	Evaporation Pond Netting and Monitoring	If after 12 quarterly inspections there are no entanglements, continue biannually (spring, fall).	Ongoing

**California Energy Commission  
Compliance Matrix 09-AFC-8**

<b>Condition of Certification</b>	<b>Title</b>	<b>Description</b>	<b>Status</b>
BIO-21	Evaporation Pond Netting and Monitoring	Submit annual reports no later than January 31 of each year.	Ongoing
BIO-22	Mitigation for Impacts to State Waters	Provide a copy of Condition of Certification BIO-22 to all on-site personnel (detailing Stop Work Authorities).	Ongoing
BIO-22	Mitigation for Impacts to State Waters	Include a discussion of work in waters of the state in Annual Compliance Reports.	Ongoing
BIO-22	Mitigation for Impacts to State Waters	Drainage BMPs: Minimize road building, construction activities and vegetation clearing within ephemeral drainages to the extent feasible. Do not allow water containing mud, silt, or other pollutants from grading, aggregate washing, or other activities to enter ephemeral drainages or be placed in locations that may be subjected to high storm flows. Comply with all litter and pollution laws. Locate spoil sites at least 30 feet from the boundaries and drainages or in locations that may be subjected to high storm flows, where spoils might be washed back into drainages. Prevent hazMat from contaminating the soil and/or entering waters of the state. Do not place any material of any kind (including soil) into or capable of going into waters of the state. Remove excess material after operations is complete. Do not perform equipment maintenance within 150ft of a drainage.	Ongoing
BIO-23	Decommissioning and Closure Plan	Revise and submit Decommissioning and Closure Plan every 5yrs during operations.	Ongoing
BIO-24	Revegetation of Temporarily Disturbed Areas	Submit status report of Reveg Plan yearly.	Ongoing
HAZ-1	Hazardous Materials list of approved substances	Do not use hazmats not listed, or in quantities listed in App A.	Ongoing
HAZ-1	Hazardous Materials list of approved substances	Submit a list of haz mats contained at the facility in the Annual Compliance Report.	Ongoing
HAZ-3	Safety Management Plan for Hazardous Material	Implement Safety Management Plan.	Ongoing
HAZ-6	Operations Site Security Plan	Submit statement confirming all employee background checks are complete and appended to Security Plan as part of the Annual Compliance Report.	Ongoing
HAZ-6	Operations Site Security Plan	Submit verification Security Plan includes all current hazmat transport vendor certifications as part of the Annual Compliance Report.	Ongoing
NOISE-2	Noise Complaint Process	Document, investigate, evaluate, and attempt to resolve all project-related noise complaints.	Ongoing
NOISE-2	Noise Complaint Process	Contact individual making complaint.	Ongoing
NOISE-2	Noise Complaint Process	Submit the Noise Complaint Resolution Form.	Ongoing
NOISE-3	Noise Control Program	Make the Program available to OSHA upon request.	Ongoing
NOISE-4	Occupational Noise Survey	Make the report available to OSHA and Cal/OSHA upon request.	Ongoing
NOISE-4	Occupational Noise Survey	Submit report of survey findings.	Ongoing
Soil & Water-1	Drainage Erosion and Sedimentation Control Plan	Submit results of monitoring and maintenance activities in Annual Compliance Report.	Ongoing
Soil & Water-1	Drainage Erosion and Sedimentation Control Plan	Update and maintain the DESCPC for the life of the Project.	Ongoing
Soil & Water-2	GW Level Monitoring, Mitigation and Reporting	Submit documentation of monetary compensation to well owners.	Ongoing
Soil & Water-2	GW Level Monitoring, Mitigation and Reporting	If GW levels are lowered >5ft due to Project pumping, provide compensation or mitigation to well owners.	Ongoing
Soil & Water-2	GW Level Monitoring, Mitigation and Reporting	Monitor quarterly operational parameters (i.e., pumping rate) of the water supply wells.	Ongoing
Soil & Water-2	GW Level Monitoring, Mitigation and Reporting	Fourth quarterly report serves as annual report. Include trend analysis. Determine where pumping has caused drawdown >5ft below baseline.	Ongoing
Soil & Water-2	GW Level Monitoring, Mitigation and Reporting	If required, compensate landowners by March 31.	Ongoing
Soil & Water-2	GW Level Monitoring, Mitigation and Reporting	If GW levels are lowered and pumps exposed, reimburse well owner to lower pumps. If pumps cannot be lowered, deepen the well(s) or construct new ones.	Ongoing
Soil & Water-2	GW Level Monitoring, Mitigation and Reporting	Collect water level measurements semi-annually after the first year.	Ongoing
Soil & Water-2	GW Level Monitoring, Mitigation and Reporting	Submit monitoring reports, complaints, studies and data.	Ongoing
Soil & Water-3	Groundwater Well Impact Compensation	Provide compensation by March 31 of each year. (one time for lump sum payments).	Ongoing
Soil & Water-3	Groundwater Well Impact Compensation	Submit a report of compensation provided for increased energy costs.	Ongoing
Soil & Water-4	Project GW Wells, Pre-Well Installation	Submit to CPM two copies of all operational reports required by the County of Riverside and any changes to operations of well.	Ongoing
Soil & Water-5	Construction and Operation Water Use	Submit an annual report of water usage (g/month and total).	Ongoing
Soil & Water-5	Construction and Operation Water Use	GW use during operations must not exceed 202 afy	Ongoing

**California Energy Commission  
Compliance Matrix 09-AFC-8**

<b>Condition of Certification</b>	<b>Title</b>	<b>Description</b>	<b>Status</b>
Soil & Water-6	Waste Discharge Requirements	Submit annual waste discharge permit fee associated with this facility to the Water Boards	Ongoing
Soil & Water-12	Non-Transient Non-Community Water System	Designate a CA Cert'd Water Treatment Plant Operator as well as the technical, managerial and financial requirements as prescribed by State law.	Ongoing
Soil & Water-12	Non-Transient Non-Community Water System	Submit updates annually for all monitoring requirements and submittals to County related to the permit, and proof of annual renewal of the operating permit.	Ongoing
Soil & Water-13	Channel Maintenance Program	Submit a Channel Maintenance Program Annual Report, Channel Maintenance Work Plan, and Lessons Learned with the Annual Compliance Report.	Ongoing
Soil & Water-16	Groundwater Production Monitoring	File an annual "Notice of Extraction and Diversion of Water" with the SWRCB. Include a copy of the Notice in the Annual Compliance Report.	Ongoing
TRANS-4	Hazmat Transport Permits/Licenses	Retain copies of hazardous material transport permits onsite for inspection.	Ongoing
VIS-1	Surface Treatment of Non-Mirror Project Structures and Buildings	Include a status report regarding surface maintenance in the Annual Compliance Report.	Ongoing
WASTE-9	Operation Waste Management Plan	Submit actual volume of waste generated and management methods used in each Annual Compliance Report.	Ongoing
WASTE-9	Operation Waste Management Plan	Update Operations Waste Management Plan as necessary.	Ongoing
WASTE-10	HTF Contaminated Soil Hazard assessment	Document all HTF releases. If > 42 gallons, notify agencies and provide analysis of results in accordance with WASTE-10.	Ongoing
WASTE-11	HAZMAT Waste Release/Spill Documentation and Corrective Actions	Submit release/spill documentation. If the release was reported, include agency communication.	Ongoing
WASTE-11	HAZMAT Waste Release/Spill Documentation and Corrective Actions	Document, clean up, and dispose of hazmat released > EPA's reportable quantities in accordance with federal, state, and local requirements.	Ongoing
Worker Safety-7	Riv Co Fire Department, Capital and Operating Costs Funding	Provide letter of credit in the amount of \$375,000 to RCFD annually.	Ongoing
Worker Safety-9	Riv Co Fire Dept Joint Training Exercises	Include joint exercise training documentation with the RCFD and other solar plants in the annual compliance report.	Ongoing
Worker Safety-9	Riv Co Fire Dept Joint Training Exercises	Host the annual training on a rotating yearly basis with the other solar power plants.	Ongoing
ELEC-1	CBO Submittal - Electrical Equipment and Systems	Retain approved final plant design plans and calculations onsite for the life of the project.	Ongoing
TSE-4	CBO Submittal - Power Plant Switchyard, Outlet Line and Termination Design Plans	Retain all plans, including changes, on site for one year after completion of construction.	Ongoing
TSE-8	Code Compliance	In case of non-conformance of Tline construction or operation, notify CPM and CBO and describe the corrective actions to be taken.	Ongoing
TSE-8	Code Compliance	Inspect transmission line to ensure conformance with applicable codes and standards.	Ongoing
COMPLIANCE-5	Compliance Matrix	Submit a compliance matrix with each monthly and annual compliance report	Ongoing
COMPLIANCE-7	Annual Compliance Reports	Submit Annual Compliance Reports instead of Monthly Compliance Reports.	Ongoing
COMPLIANCE-10	Planned Facility Closures	Submit a closure plan to the CPM.	Ongoing
Soil & Water-7	Septic System and Leach Field Reqs	Comply with County and State reqs for sanitary waste disposal facilities.	Ongoing
AQ-21	Drift Eliminator Monitoring and Reporting - Cooling Towers	Perform weekly conductivity tests of the blow down water. Provide to the District, ARB and the CEC	Ongoing
WASTE-6	Haz Waste Generator Identification Number	Submit documentation of any new or revised hazardous waste generation notifications in the following Monthly Compliance Report.	Ongoing
BIO-5	Designated Biologist and Biological Monitor Authority	Des Bio to notify agencies if there a stop work order.	Ongoing
BIO-11	Desert Tortoise Compliance Verification	Provide agencies with reasonable access to the Project site and compensation lands.	Ongoing
BIO-13	Raven Management Plan	Implement the approved Raven Management Plan.	Ongoing
BIO-16	Avian Protection Plan.	Report project-related bird deaths or injuries to agencies.	Ongoing
BIO-19	Special-Status Plant Impact Avoidance, Minimization and Compensation	Notify agencies immediately if a State- or Federal-Listed Species, or BLM Sensitive Species is identified at any time during the life of the Project.	Ongoing
BIO-19-A	Section A: Special-Status Plant Impact Avoidance, Minimization and Compensation	Select, install and maintain ECDs such that special-status plants are not directly or indirectly affected (seed mixes, hay, runoff).	Ongoing
BIO-19-A	Section A: Special-Status Plant Impact Avoidance, Minimization and Compensation	Designated Botanist: monitor disturbance activities weekly.	Ongoing
BIO-19-A	Section A: Special-Status Plant Impact Avoidance, Minimization and Compensation	Des Bio: Protect special-status plant species within 100ft of Project Boundaries during operations.	Ongoing
BIO-19-A	Section A: Special-Status Plant Impact Avoidance, Minimization and Compensation	Maintain a 100-ft buffer around ESAs. (vehicles, wash stations, storage, equipment, etc)	Ongoing

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<b>Condition of Certification</b>	<b>Title</b>	<b>Description</b>	<b>Status</b>
BIO-21	Evaporation Pond Netting and Monitoring	Report any dead wildlife to Des Bio <24hrs. Des Bio must report to agencies .48hrs.	Ongoing
BIO-21	Evaporation Pond Netting and Monitoring	Consult with agency regarding removal of injured wildlife in evap ponds.	Ongoing
BIO-21	Evaporation Pond Netting and Monitoring	Des Bio or Monitor must inspect netting monthly during operation.	Ongoing
BIO-23	Decommissioning and Closure Plan	Implement a final Decommissioning and Closure Plan.	Ongoing
BIO-24	Revegetation of Temporarily Disturbed Areas	Implement Revegetation Plan.	Ongoing
CUL-11	Data Recovery for Large sites	Submit to CPM any draft research paper to be presented at a professional organization.	Ongoing
Soil & Water-2	GW Level Monitoring, Mitigation and Reporting	CPM to evaluate GW level monitoring program for necessity or modification every 5 years.	Ongoing
Soil & Water-6	Waste Discharge Requirements	Submit compliance documentation for the WDRs in Appendices B, C, & D.	Ongoing
Soil & Water-6	Waste Discharge Requirements	Submit all monitoring reports required by the WDRs and details of any nonconformance.	Ongoing
Soil & Water-13	Channel Maintenance Program	Supervise the implementation of a Channel Maintenance Program.	Ongoing
Soil & Water-13	Channel Maintenance Program	Ensure the Project Construction Manager receive training on the Channel Maintenance Program.	Ongoing
Soil & Water-14	Decommissioning and Closure Plan - Water and Wind Considerations	Submit amended Decommissioning Plans should the decommissioning scenario change in the future.	Ongoing
Soil & Water-15	Colorado River Flow Mitigation, Water Supply Plan	Implement Water Supply Plan mitigation measures.	Ongoing
Soil & Water-20	Groundwater Quality Monitoring and Reporting Plan	Monitor GW quality and levels semi-annually and submit data semi-annually.	Ongoing
TLSN-3	Combustible Material Inspections	Maintain Tline ROW free of combustible material.	Ongoing
VIS-2	Temporary and Permanent Exterior Lighting	Notify CPM of lighting complaint resolution/implementation.	Ongoing
VIS-2	Temporary and Permanent Exterior Lighting	Submit any received lighting complaints. Include proposal to resolve and schedule.	Ongoing
VIS-2	Temporary and Permanent Exterior Lighting	Submit a copy of complaint resolution report.	Ongoing
VIS-4	Reflective Glare Mitigation	Submit copy of complaint glare resolution form.	Ongoing
VIS-4	Reflective Glare Mitigation	Submit any glare complaints, including resolution and schedule.	Ongoing
VIS-4	Reflective Glare Mitigation	Notify CPM resolution/implementation for glare complaints.	Ongoing
WASTE-7	Waste Management-related Enforcement Action Notification	Notify CPM of an impending waste-management enforcement action and owners response/resolution.	Ongoing
GEN-3	CBO Payments	Submit payments to the CBO in accordance with the agreement between the project owner and the CBO.	Ongoing
COMPLIANCE-1	Unrestricted Access	Provide CEC staff and delegate agencies or consultants unrestricted access to the power plant site.	Ongoing
COMPLIANCE-2	Compliance Record	The project owner shall maintain project files on-site.	Ongoing
COMPLIANCE-2	Compliance Record	Energy Commission staff and delegate agencies shall be given unrestricted access to the files.	Ongoing
COMPLIANCE-3	Compliance Verification Submittals	The project owner is responsible for the delivery and content of all verification submittals to the CPM, whether such condition was satisfied by work performed or the project owner or his agent.	Ongoing
COMPLIANCE-8	Confidential Information	Submit confidential information to CEC Executive Director with a request for confidentiality.	Ongoing
COMPLIANCE-11	Unplanned Permanent Facility Closure	Submit an on-site contingency plan.	Ongoing
COMPLIANCE-12	Unplanned Permanent Facility Closure	In the event of an unplanned permanent closure, notify agencies take all necessary steps to implement the on-site contingency plan.	Ongoing
COMPLIANCE-13	Post Certification Changes to the Decision	Petition the Energy Commission to delete or change a condition of certification, modify the project design or operational requirements and/or transfer ownership of operational control of the facility.	Ongoing
BIO-2	Designated Biologist - responsibilities	Des Bio to submit bio compliance documentation through operations, unless approved by the CPM.	As Needed - Biologist on call
BIO-2	Designated Biologist - responsibilities	Submit BRMIMP compliance summary reports in Annual Compliance Report.	As Needed - Biologist on call
BIO-22	Mitigation for Impacts to State Waters	Include a copy of the notifying change of conditions report in the annual reports.	Supplied by Others
BIO-22	Mitigation for Impacts to State Waters	Include a copy of the notifying change of conditions report in the annual reports.	Supplied by Others
BIO-22	Mitigation for Impacts to State Waters	Submit a report of monitoring and management of compensation lands.	N/A funding in lieu of mitigation lands