<b>Docket Number:</b>	09-AFC-08C
<b>Project Title:</b>	Genesis Solar Energy Project
TN #:	203637
<b>Document Title:</b>	Genesis 2014 Annual Compliance Report, Part 1
Description:	Annual Report on operational activities for 2014 (March 7-December 31)
Filer:	Eric Veerkamp
Organization:	Nextera Energy Resources
<b>Submitter Role:</b>	Applicant
<b>Submission Date:</b>	2/9/2015 1:29:26 PM
<b>Docketed Date:</b>	2/9/2015



11995 Wiley's Well Road PO Box 2370 Blythe, CA 92226

January 31, 2015

Mr. Eric Veerkamp Compliance Project Manager 1516 9<sup>th</sup> Street, MS 2000 Sacramento, CA 95814

**RE: Annual Compliance Report Year 2014** 

Dear Mr. Veerkamp,

Pursuant to the Commission Decision for the Genesis Solar, LLC, enclosed you will find the Annual Compliance Report for the year 2014.

This report will cover the reporting period beginning March 7, 2014 through December 31, 2014.

### **Current operating Status:**

#### **EXECUTIVE SUMMARY**

The Genesis Solar, L.L.C. Plant began commercial operation on November 30, 2013 (Unit 2 only) and March 7, 2014 (Unit 1). Genesis Solar, LLC ran for approximately 3320 hours on Unit 2 and 3066 hours on Unit 1 in 2014.

#### **OPERATIONS**

### **Monthly Production**

Net production for year 2014		
Month	Net Production (MWH)	
Jan 14	4,892	
Feb 14	15,641	
Mar 14	48,455	
Apr 14	61,410	
May 14	72,853	
June 14	80,988	
July 14	68,842	
Aug 14	66,959	
Sept 14	63,980	
Oct 14	46,236	
Nov 14	35,274	
Dec 14	13,799	

#### MODIFICATIONS AND TESTING

During the stated period, the plant completed required testing for emissions compliance. All results were submitted to the EPA, MDAQMD, and Eric Veerkamp of the CEC. There were no findings.

#### **ENVIRONMENTAL HEALTH AND SAFETY**

Genesis Solar LLC the plant staff worked 96396 hours with 1 lost time accident.

#### Required Documentation to be submitted in this report

- 1. An updated compliance matrix containing the current status of all Conditions of Certification. Appendix A
- 2. A summary of the current project operating status and an explanation of any significant changes to facility operations during the year.
- 3. Documents required by the following conditions of certification

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A projection of project compliance activities scheduled during the next year.

	Issues	Resources/Comments	Update
1	First Aid/AED Training	November	Annual
2	CPR training	March	Contracted out
3	Compliance testing	Delta Air Quality:	Annual
4		New designed netting to be	Change in CEC
	Evap Ponds	installed 2015	conditions
5		Annual Compliance Test to be	
	Air Quality	performed May 2015	In Progress

Please call me at (760) 921-1401 if you have any questions.

Sincerely,

Luke Goguts Plant General Manager

Enclosures: cc: file Mosley

### **AQ 3 – Boiler Operations Compliance**

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. NOx as NO2:
  - 1. 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:
  - 1. 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 CH4:
  - 1. 0.088 lb/hr operating at 100% load
- d. SOx as SO2:
  - 1. 0.008 lb/hr operating at 100% load
- e. PM10:
  - 1. 0.150 lb/hr operating at 100% load

**Verification**: As part of the Annual Compliance Report, the project owner shall include information demonstrating compliance with boiler operating emission rates.

## **Aux Boiler Testing and Results**

The initial Compliance test for Aux Boiler 1 was performed on January 10, 2014 and January 24, 2014 for Aux Boiler Unit 2.

Tables below present a summary of the compliance test results. The results show that the units are operating within limits given in the ATCS.

#### **RESULTS SUMMARY Unit 1**

Species:	Units:	Measured	Limit
NOx	lb/hr	0.27	0.33
NOx	ppm @3%O <sub>2</sub>	6.9	(9) (1)
CO	lb/hr	0.0 (2)	0.56
СО	ppm @3%O <sub>2</sub>	0.0 (2)	(50) (1)
Particulate Matter	lb/hr	0.025	0.15
Sox	lb/hr	<0.002	0.008
VOCs	lb/hr	0.007	0.088
Opacity	%	0%	20%

#### **RESULTS SUMMARY Unit 2**

Species:	Units:	Measured	Limit
NOx	lb/hr	0.28	0.33
NOx	ppm @3%O <sub>2</sub>	6.5	(9) (1)
CO	lb/hr	0	0.56
CO	ppm @3%O <sub>2</sub>	0.0 (2)	(50) (1)
Particulate Matter	lb/hr	0.273	0.15
Sox	lb/hr	<0.002	0.008
VOCs	lb/hr	0.009	0.088
Opacity	%	0%	20%

- (1) basis of lb/hr limit
- (2) Test result below limits of quantitation for test method

#### AQ-5 – Aux Boiler Time Limitations

## APPLICATION NO. 00010788 AND 00010789 (TWO - 30 MMBTU/HR NATURAL GAS FIRED AUXILIARY BOILER)

#### **EQUIPMENT DESCRIPTION:**

Two, 30 MMBtu/hr natural gas boilers with low-NOx burner systems.

This equipment shall not be operated for more than 1,000 hours per rolling twelve month period and more than 14 hours per calendar day.

**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.

**Response:**The Aux Boilers on Unit 1 and Unit 2 have not been operated for more hours than the permit allows. Please reference the table on the following page.

## **Auxiliary Boiler Run Times**

Unit 1 2014 Total	119:38
Unit 2 2014 Total	135:55

## Unit 1 Detail

**Unit 2 Detail** 

Offit 1 Detail			Unit 2 Detail		
	Time in Operation			Time in Operation	
Day	(HR:MIN)		Day	(HR:MIN)	
1/5/14	0:03		1/8/14	0:45	
1/5/14	0:08		1/9/14	2:13	
1/6/14	4:44		1/11/14	6:37	
1/7/14	4:47		1/23/14	2:46	
1/8/14	1:10		1/24/14	8:30	
1/9/14	1:55		3/1/14	13:14	
1/10/14	8:39		3/2/14	3:16	
1/13/14	0:06		3/3/14	0:40	
1/15/14	1:44		3/4/14	0:27	
1/27/14	1:48		3/5/14	0:28	
1/28/14	7:53		3/6/14	0:22	
2/8/14	0:01		3/7/14	0:24	
3/1/14	1:12		3/8/14	0:22	
7/19/14	0:32		3/11/14	1:03	
7/31/14	0:47		3/12/14	0:24	
8/11/14	0:00		3/13/14	0:22	
8/12/14	1:11		6/5/14	0:56	
8/13/14	0:27		7/16/14	0:25	
9/7/14	0:32		7/18/14	0:03	
10/9/14	0:35		8/1/14	1:03	
10/10/14	0:37		8/12/14	0:46	
10/28/14	0:06		10/8/14	7:57	
10/29/14	0:34		10/9/14	7:10	
12/1/14	1:02		11/15/14	1:34	
12/2/14	13:46		12/2/14	10:18	
12/3/14	12:52		12/3/14	13:48	
12/4/14	5:42		12/4/14	5:41	
12/12/14	10:06		12/11/14	1:28	
12/13/14	10:28		12/12/14	12:48	
12/16/14	2:23		12/13/14	10:26	
12/17/14	2:54		12/16/14	1:29	
12/21/14	13:38		12/17/14	1:50	
12/22/14	7:00		12/21/14	8:46	
			12/22/14	7:17	

#### AQ-10 – Carbon Absorption 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 adsorptions 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.

See attachments below.

## OJAVE air quality management district ESERT

#### MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

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

#### **AUTHORITY TO CONSTRUCT**

C011063

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

**EXPIRES LAST DAY OF: OCTOBER 2015** 

### OWNER OR OPERATOR (Co. #1884)

EQUIPMENT LOCATION (Fac. #3137)
Genesis Solar, LLC

Genesis Solar, LLC 11995 Wiley Wells Rd.

11995 Wiley Wells Rd.

Blythe, CA 92225

Blythe, CA 92225

#### Description:

CARBON FILTER ADSORPTION SYSTEM (UNIT 2) consisting of: Two carbon adsorption canisters in parallel with 98% control efficiency in each stage with an overall control efficiency of 98%. Canister capacity/dimensions to be provided once determined.

#### **EQUIPMENT**

Capacity	Equipment Description
0	HTF System vent carbon filter
0	Associated piping and components

#### **CONDITIONS:**

- 1. Operation of this equipment shall be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.
- 2. This equipment must be in use and operating properly at all times the HTF ullage system is venting.
- 3. This carbon adsorption system shall provide at a minimum 98% control efficiency of VOC emissions vented from the HTF ullage/expansion system under valid District Permit B012001 and/or B012002
- 4. The o/o shall perform monitoring of the system and change-out of the carbon according to a District approved monitoring and

Fee Schedule: 7 (h)

Rating: 1 device

SIC: 4911

SCC: 99999999

Location/UTM(Km): 727E/3723N

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

Genesis Solar, LLC P.O. BOX 2370 (Attn. Charlyn Mosley) Blythe, CA 92226

Eldon Heaston

Air Pollution Control Officer

Permit: C011063 Issue Date: 10/16/2014

change-out plan.

- 5. Total emissions of VOC to the atmosphere shall not exceed 1.5 lbs/day and 548 lb/year, calculated based on the most recent compliance tests.
- 6. Total emissions of benzene to the atmosphere shall not exceed 0.6 lbs/day and 219 lbs/year,calculated based on the most recent compliance tests.
- 7. During operation, o/o shall monitor VOC measured as hexane at outlet from the carbon beds. Weekly monitoring shall be conducted using the installed VOC monitors and verified monthly using a District approved PID.
- 8. PID shall be considered invalid if not calibrated on the day of required use and in accordance with the manufacturer's recommended calibration procedures.
- 9. The o/o shall maintain an operations log (in electronic or hardcopy format) current and on-site for a period of five (5) years. The log shall contain at a minimum the following information and shall be provided to District personnel upon request.
- a. Date and time of VOC monitoring
- b. Results of VOC monitoring

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- c. Date and description of all maintenance, malfunctions, repairs and carbon change out(s)
- d. Prior to January 31 of each new year, the o/o of this unit shall submit to the District a summary report of all VOC emissions (as methane)
- 10. The o/o shall perform regular compliance tests on this equipment in accordance with the MDAQMD Compliance Test Procedural Manual. Initial compliance testing has been approved by the District. The next required compliance test shall be conducted no later than June 1, 2014 with subsequent annual tests being conducted no more than 12 months from the date of the last test. Test reports shall be submitted to the District no later than six weeks after the test is conducted. The following compliance tests are required:
- a. VOC as CH4 in ppmvd and lb/hr (measured per USEPA Reference Methods 25A and 18 or equivalent).
- b. Benzene in ppmvd and lb/hr (measured per CARB method 410 or equivalent).

Additionally, records of all compliance tests shall be maintained on site for a period of five (5) years and presented to District personnel upon request.

Page 2 of 2 Permit: C011063 Issue Date: 10/16/2014

## OJAVE Bir quality management district ESERT

#### MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

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

#### **AUTHORITY TO CONSTRUCT**

C011062

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

#### **EXPIRES LAST DAY OF: OCTOBER 2015**

#### OWNER OR OPERATOR (Co. #1884)

Genesis Solar, LLC 11995 Wiley Wells Rd. Blythe, CA 92225

#### **EQUIPMENT LOCATION (Fac. #3137)**

Genesis Solar, LLC 11995 Wiley Wells Rd. Blythe, CA 92225

Description:

CARBON FILTER ADSORPTION SYSTEM (UNIT 1) consisting of: Two carbon adsorption canisters in parallel with 98% control efficiency in each stage with an overall control efficiency of 98%. Canister capacity/dimensions to be provided once determined.

#### **EQUIPMENT**

Capacity	Equipment Description
0	HTF System vent carbon filter
0	Associated piping and components

#### **CONDITIONS:**

- 1. Operation of this equipment shall be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.
- 2. This equipment must be in use and operating properly at all times the HTF ullage system is venting.
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Eldon Heaston

Air Pollution Control Officer

Permit: C011062

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Issue Date: 10/16/2014

change-out plan.

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- 5. Total emissions of VOC to the atmosphere shall not exceed 1.5 lbs/day and 548 lb/year, calculated based on the most recent compliance tests.
- 6. Total emissions of benzene to the atmosphere shall not exceed 0.6 lbs/day and 219 lbs/year,calculated based on the most recent compliance tests.
- 7. During operation, o/o shall monitor VOC measured as hexane at outlet from the carbon beds. Weekly monitoring shall be conducted using the installed VOC monitors and verified monthly using a District approved PID.
- 8. PID shall be considered invalid if not calibrated on the day of required use and in accordance with the manufacturer's recommended calibration procedures.
- 9. The o/o shall maintain an operations log (in electronic or hardcopy format) current and on-site for a period of five (5) years. The log shall contain at a minimum the following information and shall be provided to District personnel upon request, a. Date and time of VOC monitoring b. Results of VOC monitoring c. Date and description of all maintenance, malfunctions, repairs and carbon change out(s) d. Prior to January 31 of each new year, the o/o of this unit shall submit to the District a summary report of all VOC emissions (as methane)
- 10. The o/o shall perform regular compliance tests on this equipment in accordance with the MDAQMD Compliance Test Procedural Manual, Initial compliance testing has been approved by the District. The next required compliance test shall be conducted no later than June 1, 2014 with subsequent annual tests being conducted no more than 12 months from the date of the last test. Test reports shall be submitted to the District no later than six weeks after the test is conducted. The following compliance tests are required: a. VOC as CH4 in ppmvd and lb/hr (measured per USEPA Reference Methods 25A and 18 or equivalent). b. Benzene in ppmvd and lb/hr (measured per CARB method 410 or equivalent). Additionally, records of all compliance tests shall be maintained on site for a period of five (5) years and presented to District personnel upon request.

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## **Total Annual VOC Emissions**

Unit 1:	8.06 lb Methane
Unit 2:	14.92 lb Methane

Summary of Daily VOC Emissions

Unit 1		
lb		
Date	Methane	
6/26/2014	0.70	
6/29/2014	0.11	
7/6/2014	0.11	
7/27/2014	0.11	
7/28/2014	0.04	
8/18/2014	0.34	
9/16/2014	0.01	
9/17/2014	0.01	
9/21/2014	0.04	
9/22/2014	0.11	
10/2/2014	0.01	
10/9/2014	0.08	
10/12/2014	0.67	
10/13/2014	0.93	
10/28/2014	0.53	
11/1/2014	0.79	
11/10/2014	0.48	
11/23/2014	1.10	
11/26/2014	1.21	
11/30/2014	0.34	
12/1/2014	0.32	

Unit 2			
	lb		lb
Date	Methane	Date	Methane
3/30/2014	0.35	9/15/2014	0.34
4/6/2014	0.11	9/18/2014	0.70
4/7/2014	0.25	9/20/2014	0.60
4/28/2014	0.43	9/21/2014	0.64
4/29/2014	0.01	9/22/2014	0.45
4/30/2014	0.07	9/23/2014	0.26
5/4/2014	0.17	9/27/2014	0.40
5/5/2014	0.02	9/28/2014	0.28
5/11/2014	0.30	10/9/2014	0.02
5/19/2014	0.08	10/12/2014	0.72
6/8/2014	0.09	10/13/2014	0.01
6/10/2014	0.01	10/18/2014	0.38
6/12/2014	0.16	10/19/2014	0.24
6/15/2014	0.08	10/20/2014	0.21
6/22/2014	0.05	10/21/2014	0.09
6/23/2014	0.24	10/22/2014	0.13
6/29/2014	0.05	11/1/2014	0.32
7/6/2014	0.26	11/5/2014	0.05
7/21/2014	0.28	11/28/2014	0.45
8/22/2014	0.04	11/30/2014	0.38
8/23/2014	0.05	12/1/2014	0.11
8/24/2014	0.08	12/3/2014	0.21
8/25/2014	0.03	12/4/2014	0.37
9/3/2014	0.10	12/5/2014	0.85
9/13/2014	1.42	12/6/2014	0.59
9/14/2014	0.60	12/8/2014	0.78

#### RE: AQ-10, Carbon Filter Change out plan, CPM approval

Veerkamp, Eric@Energy [Eric.Veerkamp@energy.ca.gov]

Sent: Tuesday, July 31, 2012 10:10 AM

To: Mosley, Charlyn Cc: Gavaldon, Jennifer

#### Charly,

The AQ-10 submittal for Genesis for the carbon filter change out plan, dated June 7, 2012 has been reviewed and approved by staff, and found to be in compliance; therefore, according to the Conditions of Certification in the Genesis Final Decision, the submittal has CPM approval.

Please let me know if you have any questions. Thanks.

Eric W. Veerkamp, AICP Compliance Project Manager California Energy Commission 1516 9th Street, MS 2000 Sacramento, CA 95814 916-654-4611 Eric.Veerkamp@energy.ca.gov



From: Mosley, Charlyn [mailto:Charlyn.Mosley@fpl.com] Sent: Thursday, June 07, 2012 4:56 PM To: Veerkamp, Eric@Energy Subject: AQ-10, Carbon Filter Change out plan

Dear Mr. Veerkamp,

Please find the attached Carbon Filter Change Out Plan, per COC AQ-10, for your review and approval. The attachments include the Plan cover letter and Change Out Plan. Should you require additional information, please don't hesitate to call me.

#### **AQ-12 Maintenance and Inspection of HTF Leaks**

**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.

**AQ-12** 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 reinspection 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.

#### Genesis Solar Energy Project - AQ 11 & AQ 12

Roseana Navarro-Brasington [rnbrasington@mdaqmd.ca.gov] Sent:Wednesday, May 29, 2013 3:19 PM To: McCord, Matthew; Gavaldon, Jennifer

The documents you provided for my review:

AQ-11
AQ-12
HTF System Vent Carbon Filters Monitoring and Change-out Plan
Inspection of Watch – Powerblock
Inspection of Watch – Solar Field
PID/FID VOC Detector Guidelines

satisfy the requirements of MDAQMD permit conditions: 3(b), 4 and 5 which pertain to district approved plans. If you have any questions or need any further assistance please let me know.

ROSEANA NAVARRO-BRASINGTON AIR QUALITY ENGINEER 760-245-1661 EXT. 5706

#### AQ-15 – Initial Start up Test Results

Verification: The project owner shall submit the test results to the District and to the CPM within 180 days after initial startup.

#### **AQ-15**

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. The following compliance tests are required: a. VOC as CH4 in ppmvd and lb/hr (measured per USEPA Reference Methods 25A and 18 or equivalent).

b. Benzene in ppmvd and lb/hr (measured per CARB method 410 or equivalent). Additionally, records of all compliance tests shall be maintained on site for a period of five (5) years and presented to District personnel upon request.

### <u>Heat Transfer Fluid (HTF) Ullage and Reclamation System Carbon Adsorption</u> System.

The Ullage and Reclamation System have the following Major components:

- HTF Ullage Discharge Pumps
- HTF Ullage Vessels
- Ullage Coolers
- Ullage Drain Vessels
- HTF Reclamation Flash Vessel
- HTF System Vent Carbon Filters

The carbon adsorption filters control emissions to the atmosphere when the system is actively venting. The 2 vents are referred to as North and South and identified as 12WTU41AT001 and 12WTU42AT001 respectively.

Table below presents a summary of the compliance test results. The results show that the unit was operating within limits given in the ATC.

23 24

## Unit 1 RESULTS SUMMARY

Parameter	South Vent	North Vent	Limit
Total Non-			
Methane/Ethane			
hydrocarbons, lb/day as			
Methane	0.67	0.17	1.5
Benzene, lb/day	<0.00077	<0.00080	0.6

## Unit 2 RESULTS SUMMARY

Parameter	South Vent	North Vent	Limit
Total Non-			
Methane/Ethane			
hydrocarbons, lb/day as			
Methane	0.25	0.15	1.5
Benzene, Ib/day	<0.00133	<0.00098	0.6

#### AQ-16 Test results for VOC as CH4 and Benzene

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

- a. VOC as CH4 1.5 lb/day, verified by compliance test.
- b. Benzene 0.6 lb/day, verified by compliance test.

See attachment below

### Unit 1 RESULTS SUMMARY

Parameter	South Vent	North Vent	Limit
Total Non-			
Methane/Ethane			
hydrocarbons, lb/day as			
Methane	0.67	0.17	1.5
Benzene, lb/day	<0.00077	<0.00080	0.6

## Unit 2 RESULTS SUMMARY

Parameter	South Vent	North Vent	Limit
Total Non-			
Methane/Ethane			
hydrocarbons, lb/day as			
Methane	0.25	0.15	1.5
Benzene, lb/day	<0.00133	<0.00098	0.6

#### TEST REPORT FOR THE 2013 INITIAL EMISSION COMPLIANCE TEST FOR THE GENESIS SOLAR UNIT 2 HEAT TRANSFER FLUID (HTF) ULLAGE AND RECLAMATION SYSTEM CARBON ADSORPTION SYSTEM

PREPARED FOR:

GENESIS SOLAR, LLC 11995 WILLY WILLS ROAD BLYTHE, CA 92225

FOR SUBMITTAL TO:

MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT 15428 CIVIC DRIVE, SUITE 200 VICTORVILLE, CALIFORNIA 92392-2383

PREPARED BY:

Bob Finken

Bob Finken President Dolta Air Quality Services, Incorporated

DELTA AIR QUALITY SERVICES, INCORPORATED 1845 NORTH CASE STREET ORANGE, CALIFORNIA 92865 (714) 279-6777

JANUARY 9, 2014

REPORT NUMBER: R0211527



## TEST REPORT FOR THE 2014 INITIAL EMISSION COMPLIANCE TEST FOR THE GENESIS SOLAR UNIT 1 HEAT TRANSFER FLUID (HTF) ULLAGE AND RECLAMATION SYSTEM CARBON ADSORPTION SYSTEM

PREPARED FOR:

GENESIS SOLAR, LLC 11995 WILEY WELLS ROAD BLYTHE, CA 92225

FOR SUBMITTAL TO:

MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT 15428 CIVIC DRIVE, SUITE 200 VICTORVILLE, CALIFORNIA 92392-2383

PREPARED BY:

Bob Finken

President

Delta Air Quality Services, Incorporated

**DELTA AIR QUALITY SERVICES, INCORPORATED** 1845 NORTH CASE STREET ORANGE, CALIFORNIA 92866 (714) 279-6777

FEBRUARY 4, 2014

REPORT NUMBER: R0211602



#### AQ-20 - Drift Rate

**Original AQ-20** The drift rate shall not exceed 0.0005 percent with a maximum circulation rate of 94,623 gallons per minute. The maximum hourly PM10 emission rate shall not exceed 2.36 pounds per hour, as calculated per the written District-approved protocol.

**Amended AQ-20** 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.

Note: Current permit does not have maximum circulation rate of 3450 gallons per minute limit.

**Original Verification**: The project owner shall make the site available for inspection of records and equipment by representatives of the District, ARB, and the Energy Commission.

**Amended Verification**: The manufacturer guarantee data for the drift eliminator, showing compliance with this condition, shall be provided to the CPM and the District 30 days prior to cooling tower operation. As part of the Annual Compliance Report the project owner shall include information on operating emission rates to demonstrate compliance with this condition.

## **Cooling Tower PM10 (lbm/hr)**

ing rower rivizo (ion			
Date	Unit 1	Unit 2	
01/03/14		0.00102	
01/10/14	0.00129	0.00101	
01/17/14	0.00135	0.00106	
01/24/14	0.00229	0.00078	
01/31/14	0.00142	0.00086	
02/07/14	0.00071	0.00064	
02/14/14	0.00086	0.00062	
02/21/14	0.00069	0.00072	
02/28/14	0.00072	0.00089	
03/07/14	0.00101	0.00127	
03/14/14	0.00059	0.00150	
03/21/14	0.00068	0.00155	
03/30/14	0.00156	0.00152	
04/04/14	0.00179	0.00168	
04/11/14	0.00170	0.00163	
04/18/14	0.00178	0.00177	
04/25/14	0.00175	0.00177	
05/02/14	0.00176	0.00185	
05/09/14	0.00163	0.00177	
05/16/14	0.00178	0.00177	
05/23/14	0.00176	0.00177	
05/30/14	0.00191	0.00217	
06/06/14	0.00191	0.00178	
06/13/14	0.00171	0.00181	
06/20/14	0.00208	0.00181	
06/27/14	0.00194	0.00174	

Date	Unit 1	Unit 2
07/04/14	0.00201	0.00186
07/11/14	0.00207	0.00177
07/18/14	0.00190	0.00181
07/25/14	0.00183	0.00178
08/01/14	0.00199	0.00179
08/08/14	0.00223	0.00179
08/15/14	0.00178	0.00192
08/22/14	0.00156	0.00193
08/29/14	0.00197	0.00203
09/05/14	0.00195	0.00189
09/12/14	0.00194	0.00194
09/19/14	0.00196	0.00192
09/26/14	0.00196	0.00192
10/03/14	0.00197	0.00192
10/10/14	0.00196	0.00183
10/17/14	0.00195	0.00189
10/24/14	0.00200	0.00190
10/31/14	0.00198	0.00190
11/07/14	0.00195	0.00189
11/14/14	0.00198	0.00193
11/21/14	0.00196	0.00193
11/28/14	0.00198	0.00191
12/05/14	0.00195	0.00192
12/12/14	0.00195	0.00191
12/19/14	0.00190	0.00191
12/26/14	0.00192	0.00187

#### CALIFORNIA ENERGY COMMISSION

1516 NINTH STREET SACRAMENTO, CA 95814-5512 www.energy.ca.gov



# STATE OF CALIFORNIA ENERGY RESOURCES CONSERVATION AND DEVELOPMENT COMMISSION

DOCKETED
09-AFC-8C

TN # 66682 AUG 15 2012

In the Matter of:	)	7.00 10 20
Genesis Solar Energy Project	) Docket No. 09-AFC-8C	
Genesis Solar, LLC	Order No. 12-0809-5 ORDER APPROVING the Petition to Amend the	Final Decision

On April 7 2012, Genesis Solar, LLC (NextEra Energy) submitted a petition requesting approval of a rerouted gen-tie line, a rerouted natural gas line, construction of a new dedicated substation (and ring bus) adjacent to the Colorado River Substation, and for amended air quality conditions resulting from the use of new equipment. The modifications will allow the project owner to comply with unanticipated third-party agency requirements and terms of a new Large Generation Interconnect Agreement (LGIA). The project owner has requested approval of both Option A and Option B for both the gen-tie line and natural gas line and for approval of changes to Energy Commission Conditions of Certification that would facilitate the use of new equipment.

The air quality modifications were approved by the Mojave Desert Air Quality Management District's (MDAQMD) Authority to Construct (ATC) Permit.

#### STAFF RECOMMENDATION

Energy Commission staff reviewed the petition and finds that it complies with the requirements of Title 20, Section 1769(a) of the California Code of Regulations and recommends approval of Genesis Solar LLC's petition to modify the Genesis Solar Energy Project and to amend related Conditions of Certification.

#### **ENERGY COMMISSION FINDINGS**

Based on staff's analysis, the Energy Commission concludes that the proposed changes will not result in any significant impact to public health and safety, or the environment. The Energy Commission finds that:

 The petition meets all the filing criteria of Title 20, section 1769(a) of the California Code of Regulations concerning post-certification project modifications;

- The modification will not change the findings in the Energy Commission's Final Decision pursuant to Title 20, section 1755;
- The project will remain in compliance with all applicable laws, ordinances, regulations, and standards, subject to the provisions of Public Resources Code section 25525;
- The Change will be beneficial to the public and the project owner because the Genesis Solar Energy Project will continue to operate in compliance with both the MDAQMD Permit and the Energy Commission Conditions of Certification.
- There has been a substantial change in circumstances since the Energy
  Commission certification justifying the change, and the change is based on
  information that was not available to the parties prior to Energy Commission
  certification because the changes require reconfiguring the routing of the gen-tie
  line and the natural gas line. The change(s) will also re-establish consistency
  between the Energy Commission conditions and the Authority to Construct Permit
  issued by the MDAQMD.

#### **CONCLUSION AND ORDER**

The California Energy Commission hereby adopts Staff's recommendations and approves the following changes to the Commission Decision for the Genesis Solar Energy Project. New language is shown as **bold and underlined**, and deleted language is shown in **strikeout**.

#### CONDITIONS OF CERTIFICATION

AQ-SC9 The engines used during the commissioning phase shall be registered under the ARB Portable Equipment Registration Program. They shall be fueled with natural gas rather than diesel to the degree that site conditions allow.

<u>Verification: Prior to engine use, the project owner shall provide the District and the CPM documentation of the portable equipment registration from the ARB.</u>

AQ-SC10 The facility is allowed to use portable engines between the hours of 8
am and 5 pm (peak operating hours) as long as the hourly emissions
from all portable engines combined do not exceed the following limits:

NOx: 86.95 lb/hr PM10: 3.29 lb/hr

At all other times (non-peak operating hours) emissions shall be limited to the following:

NOx: 14.25 lb/hr PM10: 0.84 lb/hr

In addition, from May through August, if power block unit 2 undergoes commissioning first while unit 1 is under construction, then peak

operating hours can be extended to begin at 7 am and conclude at 6 pm.

However, if power block unit 1 undergoes commissioning first while unit 2 is under construction, then the following maximum emission limits shall apply from May through August, between the hours of 7 am and 8 am, and 5 pm and 6 pm (between 8 am and 5pm the above mentioned limits for peak operating hours shall apply):

NOx: 82.84 lb/hr PM10: 3.13 lb/hr

Verification: The project owner shall provide engine operating logs as part of the monthly compliance report as required by AQ-SC5. The engine operating logs shall include a table that shows the hours engine operation occurred, quantity of engines operated during each hour, type of engines (fuel type, engine size and Tier rating) operated during each hour, and total calculated emissions for each hour. Running total emissions shall be provided throughout the commissioning period. In each monthly compliance report, the project owner shall certify that the facility used either grid electricity, or natural gas fueled portable generators rather than diesel fueled portable generators to the maximum degree feasible.

AQ-SC11 The total mass emissions of nitrogen oxides that are emitted by all engines combined during the commissioning period shall not exceed the District's offset threshold of 25 tpy (District Rule 1303).

<u>Verification: In each monthly compliance report, the project owner shall provide a running total of emissions for all engines. Compliance with this limit shall be based on a rolling 12-calendar month averaging period.</u>

#### **EQUIPMENT DESCRIPTION:**

Two 72-cell cooling towers with drift eliminator rate of 0.0005% and water circulation rate of 94,6233,450 gpm.

**AQ-20** The drift rate shall not exceed 0.0005 percent with a maximum circulation rate of 94,6233,450 gallons per minute. The maximum hourly PM10 emission rate shall not exceed 2.360.043 pounds per hour, as calculated per the written District-approved protocol.

<u>Verification</u>: The manufacturer guarantee data for the drift eliminator, showing compliance with this condition, shall be provided to the CPM and the District 30 days prior to cooling tower operation. As part of the Annual Compliance Report the project owner shall include information on operating emission rates to demonstrate compliance with this condition.

AQ-23 This equipment shall not be operated for more than 3,200 hours per rolling twelve month period and more than 15 hours per calendar day.

<u>Verification</u>: The project owner shall submit to the CPM the cooling tower operating data demonstrating compliance with this condition as part of the Annual Operation Report.

#### **EQUIPMENT DESCRIPTIONS:**

Two, 1,3411,474 HP diesel fueled emergency generator engines, each driving a generator.

Two One, 315327 HP diesel fueled emergency fire pump engines, each driving a fire suppression water pump.

AMERICAN BADGER AND DESERT KIT FOX IMPACT AVOIDANCE AND MINIMIZATION MEASURES MITIGATION AND MONITORING PLAN

BIO-17 The project owner shall develop and implement an American Badger and Desert Kit Fox Mitigation and Monitoring Plan (plan). The objective of the plan shall be to avoid direct impacts to the American badger and desert kit fox as a result of construction of the power plant and linear facilities, as well as during project operation and decommissioning of the Genesis Solar Energy Project. The draft plan submitted by the project owner shall provide the basis for the final plan, subject to review and comment by Bureau of Land Management (BLM) and revision and approval by the Compliance Project Manager (CPM), in consultation with California Department of Fish and Game (CDFG). The final plan shall include, but is not limited to, the following procedures and impact avoidance measures:

To avoid direct impacts to American Badgers and desert kit fox, preconstruction surveys shall be conducted for these species concurrent with the desert tortoise surveys. Surveys shall be conducted as described below:

- 1. Complete pre-construction den surveys for any new construction activity. Biological Monitors shall perform pre-construction surveys for badgers and kit fox dens in the Project area, including areas within 90 100 feet of all Project facilities, utility corridors, and access roads. Surveys may be concurrent with desert tortoise surveys. If dens are detected, each den shall be classified as inactive non-natal, inactive natal, potentially active, or definitely active non-natal, or active natal den.
  - a. <u>Inactive non-natal and inactive natal dens</u>. Inactive <u>non-natal and inactive natal</u> dens that would be directly impacted by construction activities shall be excavated by hand and backfilled to prevent reuse by badgers or kit fox.
  - b. Potentially active and definitely active non-natal dens. Potentially and definitely active non-natal dens that would be directly impacted by construction activities shall be monitored by the Biological Monitor for three consecutive nights using a tracking medium (such as diatomaceous earth or fire clay) and/or infrared camera stations at the entrance. If no tracks are observed in the tracking medium or no photos of the target species are captured after three nights, the den shall be excavated and backfilled by hand.

If tracks are observed, and especially if high or low ambient temperatures could potentially result in harm to kit fox or badger from burrow exclusion, various passive hazing methods may be used to discourage occupants from continued use. A detailed description of the types and methods of passive hazing to be used must be included in the plan; however, approval must be granted by the CPM, in consultation with CDFG prior to implementation. After verification that the den is unoccupied, it shall then be excavated by hand and backfilled to ensure that, no badgers or kit fox are trapped in the den.

- c. Active natal dens. During denning season (American badger March to August, and desert kit fox – February to June), any active natal dens that are detected in the pre-construction surveys shall have a buffer zone of 300 feet, pending approval from the CPM, in consultation with CDFG, to 500 feet surrounding the den and monitoring measures shall be implemented. Discovery of an active natal den that could be impacted by the project shall be reported to the CPM and CDFG within 24-hours of the discovery. A detailed description outlining the types and methods of monitoring must be included in the plan. The den location shall be mapped and submitted along with a report stating the survey results to the CPM and CDFG. The Designated Biologist shall monitor the natal den until he or she determines that the pups have dispersed. No disturbance will be allowed for any animal associated with a natal den and any activities that might disturb denning activities shall be prohibited within the buffer zone. Once the pups have dispersed, various passive hazing methods may be used to discourage den reuse. A detailed description of the types of passive hazing to be used must be included in the plan; however, approval must be granted by the CPM, in consultation with CDFG prior to implementation. After verification that the den is unoccupied, it shall then be excavated by hand and backfilled to ensure that, no badgers or kit fox are trapped in the den.
- d. <u>Exception for American badger</u>. In the event that passive relocation techniques fail for badgers, the <u>Applicant project owner</u> will contact <u>the CPM and CDFG</u> to explore other relocation options

Additional protection measures to be included in the plan and implemented. The Designated Biologist shall make certain that all pipes within the project disturbance area must be capped and/or covered every evening or when not in use to prevent desert kit fox or other animals from accessing any pipes. All water sources shall be covered when not in use to prevent drowning.

2. Notify the CPM and CDFG if injured, sick, or dead American badger and desert kit fox are found. If an injured, sick, or dead animal is detected on any area associated with the Genesis project site or

associated linear facilities, the CPM and the Ontario CDFG Office shall be notified immediately by phone. Written follow-up notification via FAX or electronic communication shall be submitted to the CPM and CDFG within 24 hours of the incident and shall include the following information as appropriate:

- a. Injured animals. If an American badger or desert kit fox is injured because of any project-related activities, the Designated Biologist or approved Biological Monitor shall immediately notify the CPM and CDFG personnel regarding the capture and transport of the animal to CDFG-approved wildlife rehabilitation and/or veterinarian clinic. Following the phone notification, the CPM and CDFG shall determine the final disposition of the injured animal, if it recovers. A written notification of the incident shall be sent to the CPM and CDFG containing, at a minimum, the date, time, location, and circumstances of the incident.
- b. Sick animals. If an American badger or desert kit fox is found sick and incapacitated on any area associated with the Genesis project site or associated linear facilities, the Designated Biologist or approved Biological Monitor shall immediately notify the CPM and CDFG personnel for immediate capture and transport of the animal to a CDFG-approved wildlife rehabilitation and/or veterinarian clinic. Following the phone notification, the CPM and CDFG shall determine the final disposition of the sick animal, if it recovers. If the animal dies, a necropsy shall be performed by a CDFG-approved facility to determine the cause of death. The project owner shall pay to have the animal transported and a necropsy performed. A written notification of the incident shall be sent to the CPM and CDFG and contain, at a minimum, the date, time, location, and circumstances of the incident.
- c. Fatalities. If an American badger or desert kit fox is killed because of any project-related activities during construction, operation, decommission or is found dead on the project site or along associated linear facilities, the Designated Biologist or approved Biological Monitor shall immediately refrigerate the carcass and notify the CPM and CDFG personnel within 24 hours of the discovery to receive further instructions on the handling of the animal. If the animal is suspected of dying of unknown causes, a necropsy shall be performed by a CDFG-approved facility to determine the cause of death. The project owner shall pay to have the animal transported and a necropsy performed.

The California Department of Fish and Game Veterinarian's guidance regarding impact avoidance measures and what should be done to

prevent disease spread should be incorporated into the final plan and implemented.

The plan must also include measures to reduce traffic impacts to wildlife if the project owner anticipates night-time construction. The plan must also include a discussion of what information will be provided to all night-time workers, including truck drivers, to educate them about the threats to kit fox, what they need to do to avoid impacts to kit fox, and what to report if they see a live, injured, or dead kit fox.

<u>Verification:</u> No fewer than 30 days prior to the start of any construction-related ground disturbance activities associated with the new project related facilities, the project owner shall provide the CPM, BLM, and CDFG with a draft American Badger and Desert Kit Fox Mitigation and Monitoring Plan for review and comment.

No fewer than 10 days prior to start of any ground disturbance activities associated with the new project related facilities, the project owner shall provide an electronic copy of the CPM -approved final plan to the CPM and CDFG and implement the plan.

The Project owner shall submit a report to the CPM and CDFG within 30 days of completion of any badger and kit fox surveys. The report shall describe survey methods, results, impact avoidance and minimization measures implemented, and the results of those measures.

No later than 2 days following a phone notification of an injured, sick, or dead American badger or desert kit fox, the project owner shall provide to the CPM and CDFG, via FAX or electronic communication, a written report from the Designated Biologist describing the incident of sickness, injury, or death of an American badger or desert kit fox, when the incident occurred, and who else was notified.

Beginning with the first month after start of construction and continuing every month until construction is completed, the Designated Biologist shall include a summary of events regarding the American badger and desert kit fox in each Monthly Compliance Report.

No later than 45 days after initiation of project operation, the Designated Biologist shall provide the CPM a final American Badger and Desert Kit Fox Mitigation and Monitoring Plan that includes: 1) a discussion of all mitigation measures that were and currently are being implemented; 2) all information about project-related kit fox and badger injuries and/or deaths; 3) all information regarding sick kit fox and badger found within the project site and along related linear facilities; and 4) recommendations on how mitigation measures might be changed to more effectively minimize and mitigate the impacts of future projects on the American badger and desert kit fox.

IT IS SO ORDERED.

# **CERTIFICATION**

The undersigned Secretariat to the Commission does hereby certify that the foregoing is a full, true, and correct copy of an Order duly and regularly adopted at a meeting of the California Energy Commission held on August 9, 2012.

AYE: Weisenmiller, McAllister, Peterman

NAY: None

ABSENT: Douglas ABSTAIN: None

Harriet Kallemeyn, Secretariat

# OJAVE air quality management district ESERT

### MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

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

### **AUTHORITY TO CONSTRUCT**

B011449

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

**EXPIRES LAST DAY OF: OCTOBER 2015** 

### OWNER OR OPERATOR (Co. #1884)

Genesis Solar, LLC 11995 Wiley Wells Rd. Blythe, CA 92225

# **EQUIPMENT LOCATION (Fac. #3137)**

Genesis Solar, LLC 11995 Wiley Wells Rd. Blythe, CA 92225

### Description:

COOLING TOWER (UNIT 2) consisting of: One cooling tower, manufacturer: SPX, model: MD5016 SAD2L CBF and serial numbers TBD. Circulation rate 3,450 GPM through two cells each with diameter TBD and equipped with a drift eliminator with drift rate less than or equal to 0.0005%.

### **CONDITIONS:**

- 1. Operation of this equipment shall be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.
- 2. This equipment shall be operated and maintained in strict accord with the recommendations of its manufacturer or supplier and/or sound engineering principles.
- 3. The drift rate shall not exceed 0.0005 percent. The maximum hourly PM10 emission rate shall not exceed 0.043 pounds per hour, as calculated per the written District-approved protocol.
- 4. The operator shall perform weekly tests of the blow-down water total dissolved solids (TDS). The TDS shall not exceed 5000 ppmw based on an arithmetic average of all TDS measurements conducted each month. The operator shall maintain a log which contains the date and result of each blow-down water test in TDS ppm, and the resulting mass emission rate. This log shall be maintained on site for a minimum of five (5) years and shall be provided to District personnel on request.

Fee Schedule: 1 (b)

Rating: 162 bhp

SIC: 4911

SCC: 38500102

Location/UTM(Km): 727E/3723N

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

Genesis Solar, LLC P.O. BOX 2370 (Attn. Charlyn Mosley) Blythe, CA 92226

Eldon Heaston

Air Pollution Control Officer

Permit: B011449 Issue Date: 10/16/2014

- 5. The operator shall conduct all required cooling tower water tests in accordance with a District-approved test and emissions calculation protocol. Thirty (30) days prior to the first such test the operator shall provide a written test and emissions calculation protocol for District review and approval.
- 6. A maintenance procedure shall be established that states how often and what procedures will be used to ensure the integrity of the drift eliminators. This procedure is to be kept on-site and available to District personnel on request.

Permit: B011449 Issue Date: 10/16/2014

# OJAVE air quality management district EXERT

### MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

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

### **AUTHORITY TO CONSTRUCT**

B011450

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

**EXPIRES LAST DAY OF: OCTOBER 2015** 

### OWNER OR OPERATOR (Co. #1884)

Genesis Solar, LLC 11995 Wiley Wells Rd. Blythe, CA 92225

### EQUIPMENT LOCATION (Fac. #3137)

Genesis Solar, LLC 11995 Wiley Wells Rd. Blythe, CA 92225

### Description:

COOLING TOWER (UNIT 1) consisting of: One cooling tower, manufacturer: SPX, model: MD5016 SAD2L CBF and serial numbers TBD. Circulation rate, 3,450 GPM through two cells each with diameter TBD and equipped with a drift eliminator with drift rate less than or equal to 0.0005%.

#### CONDITIONS:

- 1. Operation of this equipment shall be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.
- 2. This equipment shall be operated and maintained in strict accord with the recommendations of its manufacturer or supplier and/or sound engineering principles.
- 3. The drift rate shall not exceed 0.0005 percent. The maximum hourly PM10 emission rate shall not exceed 0.043 pounds per hour, as calculated per the written District-approved protocol.
- 4. The operator shall perform weekly tests of the blow-down water total dissolved solids (TDS). The TDS shall not exceed 5000 ppmw based on an arithmetic average of all TDS measurements conducted each month. The operator shall maintain a log which contains the date and result of each blow-down water test in TDS ppm, and the resulting mass emission rate. This log shall be maintained on site for a minimum of five (5) years and shall be provided to District personnel on request.

Fee Schedule: 1 (b)

Rating: 162 bhp

SIC: 4911

SCC: 38500102

Location/UTM(Km): 727E/3723N

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

Genesis Solar, LLC P.O. BOX 2370 (Attn. Charlyn Mosley) Blythe, CA 92226

Eldon Heaston

Air Pollution Control Officer

Permit: B011450

Issue Date: 10/16/2014

- 5. The operator shall conduct all required cooling tower water tests in accordance with a District-approved test and emissions calculation protocol. Thirty (30) days prior to the first such test the operator shall provide a written test and emissions calculation protocol for District review and approval.
- 6. A maintenance procedure shall be established that states how often and what procedures will be used to ensure the integrity of the drift eliminators. This procedure is to be kept on-site and available to District personnel on request.

# AQ 30 - Sulfur Content Compliance

**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.

See response below.

# **Response:**

# U1 EDG

Hour reading on 1/1/2015 34.7 hrs

Hour reading on 2/23/201420.3 hrs

Total for 2014: 14.4 hrs

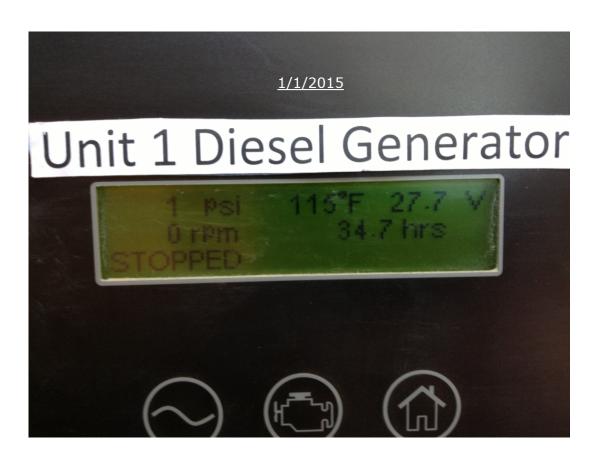
# U2 EDG

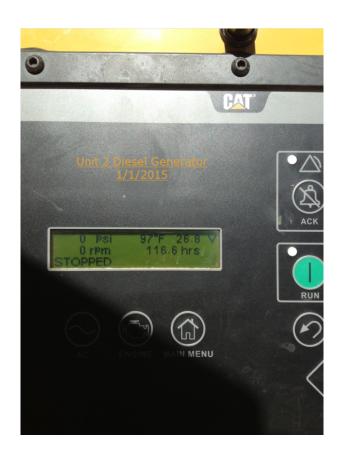
Hour reading on 1/1/2015 116.6 hrs

Hour reading on 1/1/2014 106 hrs

Total for 2014 10.6 hrs

Also see attached photographs taken on 1/1/2015.







# SAFETY DATA SHEET

### 1. Identification

Product identifier

UNLEADED GASOLINE

Other means of identification

SDS number

002-GHS

Synonyms

Regular/Premium/Midgrade - Unleaded Gasoline, RFG - Reformulated Unleaded Gasoline, Conventional Unleaded Gasoline, Oxygenated Unleaded Gasoline, Non-Oxygenated Unleaded Gasoline, CARB (California Air Resource Board) Unleaded Gasoline, RBOB - Reformulated Blendstock for Oxygenate Blending, CBOB - Conventional Blendstock for Oxygenate Blending,

Petrol, Motor Fuel.

See section 16 for complete information.

Recommended use

Motor Fuel Motor fuels.

Recommended restrictions

None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer/Supplier

Valero Marketing & Supply Company and Affiliates

One Valero Way

San Antonio, TX 78269-6000

General Assistance

210-345-4593

E-Mail

CorpHSE@valero.com Industrial Hygienist

Contact Person **Emergency Telephone** 

24 Hour Emergency 866-565-5220

1-800-424-9300 (CHEMTREC USA)

### 2. Hazard(s) identification

ivsical hazards

Flammable liquids

Category 1

Health hazards

Skin corrosion/irritation

Category 2

Germ cell mutagenicity

Category 1B

Carcinogenicity

Category 1B

Reproductive toxicity

Category 2

Specific target organ toxicity, single exposure

Category 3 narcotic effects

Specific target organ toxicity, repeated

Category 2

exposure

Aspiration hazard

Category 1

Environmental hazards

OSHA defined hazards

Hazardous to the aquatic environment,

Category 2

long-term hazard Not classified.

Label elements



Signal word

Danger

Hazard statement

Extremely flammable liquid and vapor. Causes skin irritation. May cause genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child. May cause drowsiness or dizziness. May cause damage to organs (blood, liver, kidney) through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

UNLEADED GASOLINE

913457 Version #: 03 Revison date: 23-May-2014 Print date: 23-May-2014

Prepared by 3E Company 47



# MATERIAL SAFETY DATA SHEET

### 1. Product and Company Identification

Material name

**DIESEL FUELS** 

Revision date

08-11-2011

Version #

02

MSDS Number

102

Product use

Refinery feedstock.

Synonym(s)

Diesel Fuels All Grades, Diesel Fuel No.2, Fuel Oil No.2, High Sulfur Diesel Fuel, Low Sulfur Diesel Fuel, Ultra Low Sulfur Diesel Fuel, CARB (California Air Resource Board) Diesel Fuel,

Off-Road Diesel Fuel, Dyed Diesel Fuel, X Grade Diesel Fuel, X-1 Diesel Fuel

See section 16 for complete information.

Manufacturer/Supplier

Valero Marketing & Supply Company and Affiliates

P.O. Box 696000

San Antonio, TX 78269-6000 General Assistance 210-345-4593

**Emergency** 

24 Hour Emergency 866-565-5220 1-800-424-9300 (CHEMTREC USA)

#### 2. Hazards Identification

Physical state

Liquid.

**Appearance** 

Liquid (may be dyed red).

**Emergency overview** 

DANGER!

Combustible liquid and vapor. May be ignited by heat, sparks or flames. Heat may cause the containers to explode.

Harmful if inhaled or swallowed. May be harmful if absorbed through skin. Aspiration may cause lung damage. Irritating to eyes, respiratory system and skin. In high concentrations, vapors and spray mists are narcotic and may cause headache, fatigue, dizziness and nausea. Suspect cancer hazard - may cause cancer. Prolonged exposure may cause chronic effects. Diesel exhaust has been reported to be an occupational hazard due to NIOSH-reported potential carcinogenic properties. Hydrogen sulfide, a highly toxic gas, may be present or released. Signs and symptoms of overexposure to hydrogen sulfide include respiratory and eye irritation, dizziness, nausea, coughing, a sensation of dryness and pain the nose, and loss of

consciousness. Odor does not provide a reliable indicator of the presence of hazardous levels in the atmosphere. Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic

environment

**OSHA** regulatory status

Potential health effects

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

Routes of exposure

Inhalation. Ingestion. Skin contact. Eye contact.

Eyes

Contact may irritate or burn eyes. Eye contact may result in corneal injury.

Skin

May be harmful if absorbed through skin. Irritating to skin. Frequent or prolonged contact may

defat and dry the skin, leading to discomfort and dermatitis.

Inhalation

Harmful if inhaled. Irritating to respiratory system. In high concentrations, vapors and spray mists are narcotic and may cause headache, fatigue, dizziness and nausea. May cause breathing disorders and lung damage. May cause cancer by inhalation. Prolonged inhalation may be harmful.

narmiu

Ingestion

Harmful if swallowed. Ingestion may result in vomiting; aspiration (breathing) of vomitus into lungs must be avoided as even small quantities may result in aspiration pneumonitis. Irritating to mouth,

throat, and stomach.

Target organs

Blood. Eyes. Liver. Respiratory system. Skin. Kidneys. Central nervous system.

Chronic effects

Suspect cancer hazard - may cause cancer. Liver injury may occur. Kidney injury may occur. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion and blurred vision) and/or damage. Frequent or prolonged contact may

defat and dry the skin, leading to discomfort and dermatitis.

Signs and symptoms

Irritation of nose and throat, Irritation of eyes and mucous membranes. Skin irritation.

Unconsciousness. Corneal damage. Narcosis. Decrease in motor functions. Behavioral changes. Edema. Liver enlargement. Jaundice. Conjunctivitis. Proteinuria. Defatting of the skin. Rash.

DIESEL FUELS

CPH MSDS NA

1/11

Potential environmental effects Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

# 3. Composition / Information on Ingredients

Components	CAS#	Percent
Fuels, diesel	68334-30-5	85 - 100
Biodiesel - Fatty acid methyl esters	67762-38-3	0 - 10
n-Nonane	111-84-2	1 - 3
Octane (All isomers)	111-65-9	1 - 2
Hexane (Other isomers)	96-14-0	0 - 1
Naphthalene	91-20-3	0 - 1
n-Heptane	142-82-5	0 - 1
n-Hexane	110-54-3	0 - 1

### 4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention.

Skin contact Remove contaminated clothing and shoes. Wash off immediately with soap and plenty of water.

Get medical attention if irritation develops or persists. Wash clothing separately before reuse. Destroy or thoroughly clean contaminated shoes. If high pressure injection under the skin occurs,

always seek medical attention. Inhalation

Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.

Get medical attention.

Indestion Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Do not

give mouth-to-mouth resuscitation. If vomiting occurs, keep head low so that stomach content

does not get into the lungs. Get medical attention immediately.

Notes to physician In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation.

Symptoms may be delayed.

General advice If exposed or concerned: get medical attention/advice. Ensure that medical personnel are aware

of the material(s) involved, and take precautions to protect themselves. Show this safety data

sheet to the doctor in attendance. Wash contaminated clothing before re-use.

### 5. Fire Fighting Measures

Flammable properties

Combustible by OSHA criteria. Containers may explode when heated.

Extinguishing media

Suitable extinguishing

media

Water spray. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing

media

Do not use a solid water stream as it may scatter and spread fire.

Protection of firefighters

Protective equipment and precautions for firefighters

Fire fighting

equipment/instructions

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Move containers from fire area if you can do it without risk. In the event of fire, cool tanks with water spray. Cool containers exposed to flames with water until well after the fire is out. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn. Water runoff can cause environmental damage. Use compatible foam to minimize vapor generation as needed.

Specific methods

In the event of fire and/or explosion do not breathe fumes.

Hazardous combustion

products

Carbon monoxide. Carbon Dioxide. Sulfur oxides. Nitrogen oxides (NOx). Hydrocarbons.

Hydrogen sulfide.

DIESEL FUELS

3541

Version #: 02

Revison date: 08-11-2011

Print date: 08-11-2011

CPH MSDS NA

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#### 6. Accidental Release Measures

Personal precautions

Keep unnecessary personnel away. Local authorities should be advised if significant spills cannot be contained. Keep upwind. Keep out of low areas. Ventilate closed spaces before entering. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See Section 8 of the MSDS for Personal Protective Equipment.

**Environmental precautions** 

If facility or operation has an "oil or hazardous substance contingency plan", activate its procedures. Stay upwind and away from spill. Wear appropriate protective equipment including respiratory protection as conditions warrant. Do not enter or stay in area unless monitoring indicates that it is safe to do so. Isolate hazard area and restrict entry to emergency crew. Flammable. Review Fire Fighting Measures, Section 5, before proceeding with clean up. Keep all sources of ignition (flames, smoking, flares, etc.) and hot surfaces away from release. Contain spill in smallest possible area. Recover as much product as possible (e.g. by vacuuming). Stop leak if it can be done without risk. Use water spray to disperse vapors. Use compatible foam to minimize vapor generation as needed. Spilled material may be absorbed by an appropriate absorbent, and then handled in accordance with environmental regulations. Prevent spilled material from entering sewers, storm drains, other unauthorized treatment or drainage systems and natural waterways. Contact fire authorities and appropriate federal, state and local agencies. If spill of any amount is made into or upon navigable waters, the contiguous zone, or adjoining shorelines, contact the National Response Center at 1-800-424-8802. For highway or railways spills, contact Chemtrec at 1-800-424-9300.

Methods for containment

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Local authorities should be advised if significant spillages cannot be contained. Stop leak if you can do so without risk. This material is a water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. Dike the spilled material, where this is possible. Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up

Use non-sparking tools and explosion-proof equipment.

Small Spills: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. This material and its container must be disposed of as hazardous waste.

Large Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent product from entering drains. Do not allow material to contaminate ground water system. Should not be released into the environment.

Other information

Clean up in accordance with all applicable regulations.

### 7. Handling and Storage

Handling

Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Avoid prolonged exposure. Use only with adequate ventilation. Wash thoroughly after handling. The product is combustible, and heating may generate vapors which may form explosive vapor/air mixtures. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. When using, do not eat, drink or smoke. Avoid release to the environment.

Storage

Flammable liquid storage. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. The pressure in sealed containers can increase under the influence of heat. Keep container tightly closed in a cool, well-ventilated place. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children.

### 8. Exposure Controls / Personal Protection

Occupational exposure limits

**US. ACGIH Threshold Limit Values** 

Components	Туре	Value	Form
Fuels, diesel (68334-30-5)	TWA	100 mg/m3	Inhalable fraction and vapor.
Hexane (Other isomers) (96-14-0)	STEL	1000 ppm	vapor.
Naphthalene (91-20-3)	TWA TWA STEL	500 ppm 10 ppm 15 ppm	
n-Heptane (142-82-5)	TWA STEL	400 ppm 500 ppm	

DIESEL FUELS

Version #: 02

Revison date: 08-11-2011

Print date: 08-11-2011

CPH MSDS NA

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	Туре	Value	Form
n-Hexane (110-54-3)	TWA	50 ppm	
n-Nonane (111-84-2)	TWA		
Octane (All isomers)	TWA	200 ppm	
(111-65-9)	IVVA	300 ppm	
•			
US. OSHA Table Z-1 Limits for Air Co		1000)	
Components	Туре	Value	
Naphthalene (91-20-3)	PEL	10 ppm	
		50 mg/m3	
n-Heptane (142-82-5)	PEL	2000 mg/m3	
1 (* = == =)	, ==	500 ppm	
n-Hexane (110-54-3)	PEL		
		1800 mg/m3	
Octane (All isomers)	DEL	500 ppm	
(111-65-9)	PEL	2350 mg/m3	
(111-05-9)			
		500 ppm	
Canada. Alberta OELs (Occupational	l Health & Safety Code, Sch	edule 1, Table 2)	
Components	Туре	Value	
uels, diesel (68334-30-5)	TWA	100 mg/m3	
Hexane (Other isomers)	STEL	1000 ppm	
96-14-0)		1000 ррп	
•	TWA	1760 mg/m3	
	STEL	3500 mg/m3	
	TWA		
Naphthalene (91-20-3)	TWA	500 ppm	
tapitalaire (01-20-3)	STEL	10 ppm	
		15 ppm	
	TWA	52 mg/m3	
11 1 (140.00 %)	STEL	79 mg/m3	
-Heptane (142-82-5)	TWA	1640 mg/m3	
	STEL	2050 mg/m3	
	TWA	400 ppm	
	STEL	500 ppm	
-Hexane (110-54-3)	TWA	176 mg/m3	
,		50 ppm	
-Nonane (111-84-2)	TWA		
(**************************************	1 0 0 / 1	1050 mg/m3	
ctane (All isomers)	TWA	200 ppm	
111-65-9)	IVVA	1400 mg/m3	
111 00 0)		200	
and Bally at the second		300 ppm	
anada. British Columbia OELs. (Occ	upational Exposure Limits	for Chemical Substances, Oc	cupational Health and
afety Regulation 296/97, as amende	a)		
	Туре	Value	Form
omponents			
omponents uels, diesel (68334-30-5)	TWA		Vapor and aerosol
omponents uels, diesel (68334-30-5)	TWA TWA	100 mg/m3	Vapor and aerosol.
omponents uels, diesel (68334-30-5) exane (Other isomers) 16-14-0)			Vapor and aerosol.
omponents uels, diesel (68334-30-5) exane (Other isomers) 16-14-0)	TWA	100 mg/m3 200 ppm	Vapor and aerosol.
uels, diesel (68334-30-5) exane (Other isomers) 96-14-0)	TWA TWA	100 mg/m3 200 ppm 10 ppm	Vapor and aerosol.
uels, diesel (68334-30-5) exane (Other isomers) 96-14-0) aphthalene (91-20-3)	TWA TWA STEL	100 mg/m3 200 ppm 10 ppm 15 ppm	Vapor and aerosol.
uels, diesel (68334-30-5) exane (Other isomers) 96-14-0) aphthalene (91-20-3)	TWA TWA STEL TWA	100 mg/m3 200 ppm 10 ppm 15 ppm 400 ppm	Vapor and aerosol.
components uels, diesel (68334-30-5) lexane (Other isomers) 06-14-0) laphthalene (91-20-3) -Heptane (142-82-5)	TWA TWA STEL TWA STEL	100 mg/m3 200 ppm 10 ppm 15 ppm 400 ppm 500 ppm	Vapor and aerosol.
omponents uels, diesel (68334-30-5) exane (Other isomers) 16-14-0) aphthalene (91-20-3) Heptane (142-82-5) Hexane (110-54-3)	TWA TWA STEL TWA STEL TWA STEL TWA	100 mg/m3 200 ppm 10 ppm 15 ppm 400 ppm 500 ppm 20 ppm	Vapor and aerosol.
omponents  uels, diesel (68334-30-5) exane (Other isomers) 16-14-0) aphthalene (91-20-3)  Heptane (142-82-5)  Hexane (110-54-3) Nonane (111-84-2)	TWA TWA STEL TWA STEL TWA TWA	100 mg/m3 200 ppm 10 ppm 15 ppm 400 ppm 500 ppm 20 ppm 200 ppm	Vapor and aerosol.
components uels, diesel (68334-30-5) exane (Other isomers) 66-14-0) aphthalene (91-20-3) -Heptane (142-82-5) -Hexane (110-54-3) Nonane (111-84-2) ctane (All isomers)	TWA TWA STEL TWA STEL TWA STEL TWA	100 mg/m3 200 ppm 10 ppm 15 ppm 400 ppm 500 ppm 20 ppm	Vapor and aerosol.
wels, diesel (68334-30-5) exane (Other isomers) 96-14-0) aphthalene (91-20-3) Wheptane (142-82-5) Whexane (110-54-3) Nonane (111-84-2) ctane (All isomers)	TWA TWA STEL TWA STEL TWA TWA TWA	100 mg/m3 200 ppm 10 ppm 15 ppm 400 ppm 500 ppm 20 ppm 200 ppm 300 ppm	
wels, diesel (68334-30-5) exane (Other isomers) 96-14-0) aphthalene (91-20-3) Wheptane (142-82-5) Whexane (110-54-3) Nonane (111-84-2) ctane (All isomers)	TWA TWA STEL TWA STEL TWA TWA TWA	100 mg/m3 200 ppm 10 ppm 15 ppm 400 ppm 500 ppm 20 ppm 200 ppm 300 ppm	
omponents uels, diesel (68334-30-5) exane (Other isomers) 6-14-0) aphthalene (91-20-3)  Heptane (142-82-5)  Hexane (110-54-3) Nonane (111-84-2) ctane (All isomers) 11-65-9) anada. Ontario OELs. (Ministry of La	TWA TWA STEL TWA STEL TWA TWA TWA TWA TWA	100 mg/m3 200 ppm 10 ppm 15 ppm 400 ppm 500 ppm 20 ppm 200 ppm 300 ppm	ents)
components uels, diesel (68334-30-5) exane (Other isomers) 96-14-0) aphthalene (91-20-3) -Heptane (142-82-5) -Hexane (110-54-3) -Nonane (111-84-2) ctane (All isomers) 11-65-9) anada. Ontario OELs. (Ministry of Laomponents	TWA TWA STEL TWA STEL TWA TWA TWA TWA TWA TWA TWA TWA	100 mg/m3 200 ppm  10 ppm 15 ppm 400 ppm 500 ppm 20 ppm 200 ppm 300 ppm	ents) Form
components uels, diesel (68334-30-5) exane (Other isomers) 96-14-0) aphthalene (91-20-3) -Heptane (142-82-5) -Hexane (110-54-3) -Nonane (111-84-2) ctane (All isomers) 11-65-9) anada. Ontario OELs. (Ministry of Laomponents uels, diesel (68334-30-5)	TWA TWA STEL TWA STEL TWA	100 mg/m3 200 ppm  10 ppm 15 ppm 400 ppm 500 ppm 20 ppm 200 ppm 300 ppm 300 ppm 100 mg/m3	ents)
components uels, diesel (68334-30-5) exane (Other isomers) 96-14-0) aphthalene (91-20-3) Heptane (142-82-5) Hexane (110-54-3) Nonane (111-84-2) ctane (All isomers) 11-65-9) anada. Ontario OELs. (Ministry of Labomponents uels, diesel (68334-30-5) exane (Other isomers)	TWA TWA STEL TWA STEL TWA TWA TWA TWA TWA TWA TWA TWA	100 mg/m3 200 ppm  10 ppm 15 ppm 400 ppm 500 ppm 20 ppm 200 ppm 300 ppm	ents) Form
omponents uels, diesel (68334-30-5) exane (Other isomers) 16-14-0) aphthalene (91-20-3) Heptane (142-82-5) Hexane (110-54-3) Nonane (111-84-2) ctane (All isomers) 11-65-9) anada. Ontario OELs. (Ministry of Labomponents uels, diesel (68334-30-5)	TWA TWA STEL TWA STEL TWA TWA TWA TWA TWA TWA TWA TWA STEL Type TWA STEL	100 mg/m3 200 ppm  10 ppm 15 ppm 400 ppm 500 ppm 20 ppm 200 ppm 300 ppm 300 ppm 100 mg/m3 1000 ppm	ents) Form
omponents uels, diesel (68334-30-5) exane (Other isomers) 16-14-0) aphthalene (91-20-3) Heptane (142-82-5) Hexane (110-54-3) Nonane (111-84-2) ctane (All isomers) 11-65-9) anada. Ontario OELs. (Ministry of Labomponents uels, diesel (68334-30-5) exane (Other isomers)	TWA TWA STEL TWA STEL TWA	100 mg/m3 200 ppm  10 ppm 15 ppm 400 ppm 500 ppm 20 ppm 200 ppm 300 ppm 300 ppm 100 mg/m3	ents) Form

Components	Type	e to Biological or Chemical Agents)  Value Forr	n
)	STEL	3520 mg/m3	
	TWA	500 ppm	
Naphthalene (91-20-3)	TWA	10 ppm	
raphinalene (51-20-5)	STEL		
		15 ppm	
	TWA	52 mg/m3	
. Ht (4.40.00.5)	STEL	78 mg/m3	
n-Heptane (142-82-5)	TWA	1635 mg/m3	
	STEL	2045 mg/m3	
	TWA	400 ppm	
	STEL	500 ppm	
n-Hexane (110-54-3)	TWA	176 mg/m3	
		50 ppm	
n-Nonane (111-84-2)	TWA	1050 mg/m3	
		200 ppm	
Octane (All isomers) (111-65-9)	TWA	1400 mg/m3	
(,	STEL	1750 mg/m3	
	TWA	_	
	STEL	300 ppm	
Demands Construction CELO (MC 1.4)		375 ppm	
Canada. Quebec OELS. (Ministr Components	y of Labor - Regulation Respect Type	ting the Quality of the Work Environme Value	ent)
Hexane (Other isomers)	STEL	1000 ppm	
(96-14-0)	2		
	TWA	1760 mg/m3	
	STEL	3500 mg/m3	
	TWA	500 ppm	
laphthalene (91-20-3)	TWA	10 ppm	
(0, 200)	STEL	15 ppm	
	TWA	13 ppm	
		52 mg/m3	
Llantana (142.82.5)	STEL	79 mg/m3	
n-Heptane (142-82-5)	TWA	1640 mg/m3	
	STEL	2050 mg/m3	
	TWA	400 ppm	
	STEL	500 ppm	
-Hexane (110-54-3)	TWA	176 mg/m3	
		50 ppm	
-Nonane (111-84-2)	TWA	1050 mg/m3	
,		200 ppm	
Octane (All isomers)	TWA	1400 mg/m3	
111-65-9)		i ioo iiigiiio	
	STEL	1750 mg/m3	
	TWA	300 ppm	
	STEL	375 ppm	
Mexico. Occupational Exposure	Limit Values	••	
components	Туре	Value	
lexane (Other isomers)	STEL	1000 ppm	
96-14-0)	TVA/A	4700	
	TWA	1760 mg/m3	
	STEL	3500 mg/m3	
	TWA	500 ppm	
laphthalene (91-20-3)	TWA	10 ppm	
	STEL	15 ppm	
	TWA	50 mg/m3	
	STEL	75 mg/m3	
-Heptane (142-82-5)	TWA	1600 mg/m3	
,	STEL	2000 mg/m3	
	TWA	400 ppm	
	STEL		
-Hexane (110-54-3)	TWA	500 ppm	
10/410 (110-04-0)	1 8 8/7	176 mg/m3	
Nonana (111 94 2)	T\A/A	50 ppm	
-Nonane (111-84-2)	TWA	1050 mg/m3	
	STEL	1300 mg/m3	
EL FUELS			CPH MSDS N
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Mexico.	Occupational	Exposure	Limit	Values
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Components	Туре	Value	
	TWA	200 ppm	
	STEL	250 ppm	
Octane (All isomers) (111-65-9)	TWA	1450 mg/m3	
	STEL	1800 mg/m3	
	TWA	300 ppm	
	STEL	375 ppm	

**Engineering controls** 

Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment.

Personal protective equipment

Eye / face protection
Skin protection

Wear safety glasses. If splash potential exists, wear full face shield or chemical goggles.

Wear chemical-resistant, impervious gloves. Full body suit and boots are recommended when handling large volumes or in emergency situations. Flame retardant protective clothing is

recommended.

Respiratory protection

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workplace exposure limits for product or components are exceeded, NIOSH approved equipment should be worn. Proper respirator selection should be determined by adequately trained personnel, based on the contaminants, the degree of potential exposure and published respiratory protection factors. This equipment should be available for nonroutine and emergency use.

General hygiene considerations Consult supervisor for special handling instructions. Avoid contact with eyes. Avoid contact with skin. Keep away from food and drink. Wash hands before breaks and immediately after handling the product. Provide eyewash station and safety shower. Handle in accordance with good

industrial hygiene and safety practice.

# 9. Physical & Chemical Properties

Appearance

Liquid (may be dyed red).

Color

Clear. Straw.

Odor

Kerosene (strong).

Odor threshold

Not available.

Physical state

Liquid.

**Form** 

Liquid.

pН

Not available.

**Melting point** 

Not available.

Freezing point

-60.1 °F (-51.15 °C) Estimated

**Boiling point** 

325 - 700 °F (162.78 - 371.11 °C)

Flash point

> 100 °F (> 37.8 °C) Closed Cup

Evaporation rate

0.02

\_\_\_\_\_\_\_

0.02

Flammability limits in air, upper, 8 %

% by volume

Flammability limits in air, lower, 0.4 %

% by volume

< 1 mm Hg (20°C)

Vapor pressure Vapor density

3 (Air = 1)

Specific gravity

0.82 - 0.87 (60°F)

Solubility (water)

Not available.

Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperature

495 °F (257.2 °C)

**Decomposition temperature** 

Not available.

Viscosity

2 - 4.5 mm<sup>2</sup>/s

DIESEL FUELS

\_\_\_\_

CPH MSDS NA

Neurological effects

Chronic exposure to high concentrations of various hydrocarbon blends may lead to polyneuropathy (peripheral nerve damage), characterized by progressive weakness and numbness in the extremities, loss of deep tendon reflexes and reduction of motor nerve conduction velocity. Numerous cases of polyneuritis have been reported following prolonged exposures to a petroleum fraction containing various isomers of heptane as major ingredients. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue) and/or damage.

Reproductive effects

Napthalene interferes with embryo development in experimental animals at dose levels that cause maternal toxicity. In humans, excessive exposure to this agent may cause hemolytic anemia in the

mother and fetus.

**Teratogenicity** 

The components of this product are not reported to cause teratogenic effects in humans. Based on best current information, there is no known teratogenicity associated with this product.

Further information

Symptoms may be delayed.

### 12. Ecological Information

<b>Ecotoxico</b>	logical	data
------------------	---------	------

Components	Test Results
n-Hexane (110-54-3)	LC50 Fathead minnow (Pimephales promelas): 2.101 - 2.981 mg/l 96 hours
n-Heptane (142-82-5)	LC50 Mozambique tilapia (Tilapia mossambica): 375 mg/l 96 hours
Naphthalene (91-20-3)	EC50 Water flea (Daphnia magna): 1.09 - 3.4 mg/l 48 hours
	LC50 Rainbow trout, donaldson trout (Oncorhynchus mykiss): 0.91 - 2.82 mg/l 96 hours

**Ecotoxicity** 

Contains a substance which causes risk of hazardous effects to the environment.

**Environmental effects** 

The product contains a substance which is toxic to aquatic organisms and which may cause

long-term adverse effects in the aquatic environment.

**Aquatic toxicity** 

Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Persistence and degradability

Not available.

Bioaccumulation / Accumulation

No data available.

Partition coefficient (n-octanol/water)

Not available.

Mobility in environmental

No data available.

#### 13. Disposal Considerations

Waste codes

D001: Waste Flammable material with a flash point <140 °F

Disposal instructions

Dispose in accordance with all applicable regulations. Dispose of this material and its container to hazardous or special waste collection point. Incinerate the material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container.

### 14. Transport Information

### DOT

Basic shipping requirements:

**UN number** 

NA1202

Proper shipping name

Diesel fuel

Hazard class

Combustible Liquid

Packing group

Labels required

Combustible liquid

Additional information:

Special provisions

144, B1, IB3, T2, TP1

Packaging exceptions Packaging non bulk

150

203

Packaging bulk

242

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**DIESEL FUELS** 

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CPH MSDS NA

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Print date: 08-11-2011

#### IATA

Basic shipping requirements:

**UN number** 

1202

Proper shipping name

Diesel fuel

Hazard class

Packing group

Ш

Additional information: ERG code

3L

### **IMDG**

Basic shipping requirements:

**UN number** 

1202

Proper shipping name

Diesel fuel

Hazard class Packing group 3 Ш

EmS No.

F-E, S-E

#### TDG

Basic shipping requirements:

Proper shipping name

Diesel fuel

Hazard class

**UN number** 

UN1202

# Packing group

# Ш

### 15. Regulatory Information

### US federal regulations

### TSCA Section 12(b) Export Notification(40 CFR 707, Subpt. D)

NAPHTHALENE (CAS 91-20-3)

0.1 % One-Time Export Notification only.

N-HEPTANE (CAS 142-82-5)

1.0 % One-Time Export Notification only. 1.0 % One-Time Export Notification only.

NONANE (CAS 111-84-2) US CAA Section 112 Hazardous Air Pollutants (HAPs) List

HEXANE (N-HEXANE) (CAS 110-54-3)

NAPHTHALENE (CAS 91-20-3)

### US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

Naphthalene (CAS 91-20-3)

0.1%

n-Hexane (CAS 110-54-3)

1.0 %

### US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Naphthalene (CAS 91-20-3)

Listed.

n-Hexane (CAS 110-54-3)

Listed.

### CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)

n-Nonane: 100

Octane (All isomers): 100

Hexane (Other isomers): 100

Naphthalene: 100 n-Heptane: 100 n-Hexane: 5000

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely

Nα

hazardous substance (40 CRF 355, Appendix A)

Section 311/312 (40 CFR

No

370)

Administration (DEA) (21 CFR

**Drug Enforcement** 

Not controlled

1308.11-15) WHMIS status

Controlled

DIESEL FUELS

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CPH MSDS NA 9/11 WHMIS classification

B3 - Flammable/Combustible D2B - Other Toxic Effects-TOXIC

#### WHMIS labeling





#### Inventory status

Country(s) or region	Inventory name On invento	ry (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
*A "Yes" indicates that all compor	nents of this product comply with the inventory requirements administered by the governing country(	s)
te regulations	2,	•

### State regulations

### US - California Hazardous Substances (Director's): Listed substance

Hexane (Other isomers) (CAS 96-14-0)	Listed.
Naphthalene (CAS 91-20-3)	Listed.
n-Heptane (CAS 142-82-5)	Listed.
n-Hexane (CAS 110-54-3)	Listed.
n-Nonane (CAS 111-84-2)	Listed.
Octane (All isomers) (CAS 111-65-9)	Listed.

# US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Benzene (CAS 71-43-2) Listed.
Toluene (CAS 108-88-3) Listed.

# US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Benzene (CAS 71-43-2)
Listed: February 27, 1987 Carcinogenic.
US - California Proposition 65 - CRT: Listed date/Developmental toxin

Benzene (CAS 71-43-2)

Listed: December 26, 1997 Developmental toxin.

Listed: January 1, 1991 Developmental toxin.

### US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

Toluene (CAS 108-88-3) Listed: August 7, 2009 Female reproductive toxin.

### US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

Benzene (CAS 71-43-2) Listed: December 26, 1997 Male reproductive toxin.

### US - Massachusetts RTK - Substance: Listed substance

Hexane (Other isomers) (CAS 96-14-0)

Naphthalene (CAS 91-20-3)

n-Heptane (CAS 142-82-5)

n-Hexane (CAS 110-54-3)

n-Nonane (CAS 111-84-2)

Octane (All isomers) (CAS 111-65-9)

Listed.

### US - New Jersey Community RTK (EHS Survey): Reportable threshold

 Naphthalene (CAS 91-20-3)
 500 LBS

 n-Hexane (CAS 110-54-3)
 500 LBS

### US - New Jersey RTK - Substances: Listed substance

Naphthalene (CAS 91-20-3) Listed.
n-Heptane (CAS 142-82-5) Listed.
n-Hexane (CAS 110-54-3) Listed.
n-Nonane (CAS 111-84-2) Listed.

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CPH MSDS NA 10 / 11 Octane (All isomers) (CAS 111-65-9)

Octane (All isomers) (CAS 111-65-9)

US - Pennsylvania RTK - Hazardous Substances: Listed substance

Fuels, diesel (CAS 68334-30-5)

Hexane (Other isomers) (CAS 96-14-0)

Naphthalene (CAS 91-20-3)

n-Heptane (CAS 142-82-5)

n-Hexane (CAS 110-54-3)

n-Nonane (CAS 111-84-2)

Listed.

Listed.

### 16. Other Information

**Further information** 

HMIS® is a registered trade and service mark of the NPCA.

Listed.

Other information

Note: This Material Safety Data Sheet applies to the listed products and synonym descriptions for Hazard Communication purposes only. Technical Specifications vary greatly depending on the products and are not reflected in this document. Consult specification sheets for technical

information.

HMIS® ratings

Health: 2\* Flammability: 2 Physical hazard: 0

NFPA ratings

Health: 1 Flammability: 2 Instability: 0

Disclaimer

This Material Safety Data Sheet (MSDS) was prepared in accordance with 29 CFR 1910.1200 by Valero Marketing & Supply Co., ("VALERO"). VALERO does not assume any liability arising out of product use by others. The information, recommendations, and suggestions presented in this MSDS are based upon test results and data believed to be reliable. The end user of the product has the responsibility for evaluating the adequacy of the data under the conditions of use, determining the safety, toxicity and suitability of the product under these conditions, and obtaining additional or clarifying information where uncertainty exists. No guarantee expressed or implied is made as to the effects of such use, the results to be obtained, or the safety and toxicity of the product in any specific application. Furthermore, the information herein is not represented as absolutely complete, since it is not practicable to provide all the scientific and study information in the format of this document, plus additional information may be necessary under exceptional conditions of use, or because of applicable laws or government regulations.

Issue date

08-11-2011

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Revison date: 08-11-2011

#### Precautionary statement

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking, Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting// equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe gas/mist/vapors/spray. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area. Avoid release to the environment

Response

If exposed or concerned: Get medical advice/attention, If inhaled: Remove person to fresh air and keep comfortable for breathing. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. In case of fire: Use alcohol-resistant foam, carbon dioxide, dry powder or water fog for extinction. Collect spillage.

Storage

Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

### 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	CAS number	%
Gasoline	86290-81-5	80-100
Toluene	108-88-3	0-30
Hexane (Other Isomers)	96-14-0	5-25
Xylene (o, m, p isomers)	1330-20-7	0-25
Octane (All isomers)	111-65-9	0-18.5
Ethanol	64-17-5	0-10
1,2,4, Trimethylbenzene	95-63-6	0-6
n-Heptane	142-82-5	1-5
Pentane	109-66-0	1-5
Cumene	98-82-8	0-5
Ethylbenzene	100-41-4	0-5
Benzene	71-43-2	0-4.9
n-Hexane	110-54-3	0-3
Cyclohexane	110-82-7	0-3

#### 4. First-aid measures

Inhalation

Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

Skin contact

Remove contaminated clothing and shoes. Wash off immediately with soap and plenty of water. Get medical attention if irritation develops or persists. Wash clothing separately before reuse. Destroy or thoroughly clean contaminated shoes. If high pressure injection under the skin occurs,

always seek medical attention.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.

Ingestion

Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Do not give mouth-to-mouth resuscitation. If vomiting occurs, keep head low so that stomach content does not get into the lungs. Never give anything by mouth to a victim who is unconscious or is having convulsions. Get medical attention immediately.

Most important

/mptoms/effects, acute and

delayed

Irritation of nose and throat. Irritation of eyes and mucous membranes. Skin irritation. Unconsciousness. Corneal damage. Narcosis. Cyanosis (blue tissue condition, nails, lips, and/or skin). Decrease in motor functions. Behavioral changes. Edema. Liver enlargement. Jaundice.

Conjunctivitis. Proteinuria. Defatting of the skin. Rash.

UNLEADED GASOLINE

Version #: 03 Revison date: 23-May-2014 Print date: 23-May-2014

Prepared by 3E Company 58

Indication of immediate medical attention and special treatment needed

In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

eneral information

If exposed or concerned: get medical attention/advice. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use.

### 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media

Water spray. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Vapor may cause flash fire. Vapors can flow along surfaces to distant ignition source and flash back. Sensitive to static discharge.

Special protective equipment and precautions for firefighters

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

Fire-fighting equipment/instructions

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Move containers from fire area if you can do it without risk. In the event of fire, cool tanks with water spray. Cool containers exposed to flames with water until well after the fire is out. For massive fire, use unmanned hose holders or monitor nozzles, if this is impossible, withdraw from area and let fire burn. Vapors may form explosive air mixtures even at room temperature. Prevent buildup of vapors or gases to explosive concentrations. Some of these materials, if spilled, may evaporate leaving a flammable residue. Water runoff can cause environmental damage. Use compatible foam to minimize vapor generation as needed.

Specific methods General fire hazards Use water spray to cool unopened containers.

Extremely flammable liquid and vapor, Containers may explode when heated.

#### 6. Accidental release measures

Personal precautions, otective equipment and nergency procedures

Keep unnecessary personnel away. Local authorities should be advised if significant spills cannot be contained. Keep upwind. Keep out of low areas. Ventilate closed spaces before entering. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See Section 8 of the SDS for Personal Protective Equipment.

Methods and materials for containment and cleaning up Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. This material is a water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. Dike the spilled material, where this is possible. Prevent entry into waterways, sewers, basements or confined areas.

Use non-sparking tools and explosion-proof equipment.

Small Spills: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. This material and its container must be disposed of as hazardous waste.

Large Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent product from entering drains. Do not allow material to contaminate ground water system. Should not be released into the environment.

**Environmental precautions** 

Gasoline may contain oxygenated blend products (Ethanol, etc.) that are soluble in water and therefore precautions should be taken to protect surface and groundwater sources from contamination. If facility or operation has an "oil or hazardous substance contingency plan". activate its procedures. Stay upwind and away from spill. Wear appropriate protective equipment including respiratory protection as conditions warrant. Do not enter or stay in area unless monitoring indicates that it is safe to do so. Isolate hazard area and restrict entry to emergency crew. Extremely flammable. Review Firefighting Measures, Section 5, before proceeding with clean up. Keep all sources of ignition (flames, smoking, flares, etc.) and hot surfaces away from release. Contain spill in smallest possible area. Recover as much product as possible (e.g. by vacuuming). Stop leak if it can be done without risk. Use water spray to disperse vapors. Use compatible foam to minimize vapor generation as needed. Spilled material may be absorbed by an appropriate absorbent, and then handled in accordance with environmental regulations. Prevent spilled material from entering sewers, storm drains, other unauthorized treatment or drainage systems and natural waterways. Contact fire authorities and appropriate federal, state and local agencies, If spill of any amount is made into or upon navigable waters, the contiguous zone, or adjoining shorelines, contact the National Response Center at 1-800-424-8802.

### 7. Handling and storage

Precautions for safe handling

Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity.

Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Avoid prolonged exposure. Use only with adequate ventilation. Wash thoroughly after handling. The product is extremely flammable, and explosive vapor/air mixtures may be formed even at normal room temperatures. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. When using, do not eat, drink or smoke. Avoid release to the environment.

Conditions for safe storage, including any incompatibilities Flammable liquid storage. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. The pressure in sealed containers can increase under the influence of heat. Keep container tightly closed in a cool, well-ventilated place. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children.

### 8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Components	Туре	Value		
Benzene (CAS 71-43-2)	STEL	5 ppm		
	TWA	1 ppm		
US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)				
Components	Туре	Value		
Cumene (CAS 98-82-8)	PEL	245 mg/m3		
		50 ppm		
Cyclohexane (CAS 110-82-7)	PEL	1050 mg/m3		
		300 ppm		
Ethanol (CAS 64-17-5)	PEL	1900 mg/m3		
		1000 ppm		
Ethylbenzene (CAS 100-41-4)	PEL	435 mg/m3		
		100 ppm		
n-Heptane (CAS 142-82-5)	PEL	2000 mg/m3		
		500 ppm		
n-Hexane (CAS 110-54-3)	PEL	1800 mg/m3		
		500 ppm		
Octane (All isomers) (CAS 111-65-9)	PEL	2350 mg/m3		
		500 ppm		
Pentane (CAS 109-66-0)	PEL	2950 mg/m3		
		1000 ppm		
Xylene (o, m, p isomers) (CAS 1330-20-7)	PEL	435 mg/m3		
		100 ppm		
US. OSHA Table Z-2 (29 CFR 1910.1000)				
Components	Туре	Value		
Benzene (CAS 71-43-2)	Ceiling	25 ppm		
	TVVA	10 ppm		
Toluene (CAS 108-88-3)	Ceiling	300 ppm		
	TWA	200 ppm		
US. ACGIH Threshold Limit Values				
Components	Туре	Value		
1,2,4, Trimethylbenzene (CAS 95-63-6)	TWA	25 ppm		
Benzene (CAS 71-43-2)	STEL	2.5 ppm		

# US. ACGIH Threshold Limit Values

Components	Туре	Value
×	TWA	0.5 ppm
Cumene (CAS 98-82-8)	TVVA	50 ppm
Cyclohexane (CAS 110-82-7)	TWA	100 ppm
Ethanol (CAS 64-17-5)	STEL	1000 ppm
Ethylbenzene (CAS 100-41-4)	TWA	20 ppm
Gasoline (CAS 86290-81-5)	STEL	500 ppm
,	TWA	300 ppm
Hexane (Other Isomers) (CAS 96-14-0)	STEL	1000 ppm
,	TWA	500 ppm
n-Heptane (CAS 142-82-5)	STEL	500 ppm
, , , , , , , , , , , , , , , , , , , ,	TVVA	400 ppm
n-Hexane (CAS 110-54-3)	TWA	50 ppm
Octane (All isomers) (CAS 111-65-9)	TVVA	300 ppm
Pentane (CAS 109-66-0)	TWA	600 ppm
Toluene (CAS 108-88-3)	TWA	20 ppm
Xylene (o, m, p isomers)	STEL	150 ppm
(CAS 1330-20-7)		• •
US. NIOSH: Pocket Guide to Chen	TWA nical Hazards	100 ppm
Components	Туре	Walter
		Value
1,2,4, Trimethylbenzene (CAS 95-63-6)	TWA	125 mg/m3
D-11-11- (CAC 74, 40, 0)	OTE:	25 ppm
Benzene (CAS 71-43-2)	STEL	1 ppm
	TWA	0.1 ppm
Cumene (CAS 98-82-8)	TWA	245 mg/m3
		50 ppm
Cyclohexane (CAS 110-82-7)	TWA	1050 mg/m3
		300 ppm
Ethanol (CAS 64-17-5)	TWA	1900 mg/m3
		1000 ppm
Ethylbenzene (CAS 100-41-4)	STEL	545 mg/m3
•		125 ppm
	TWA	435 mg/m3
		100 ppm
Hexane (Other Isomers) (CAS 96-14-0)	Ceiling	1800 mg/m3
	TWA	510 ppm 350 mg/m3
		100 ppm
n-Heptane (CAS 142-82-5)	Ceiling	1800 mg/m3
,	223	440 ppm
	TWA	350 mg/m3
	I V V/	
n-Hexane (CAS 110-54-3)	T\A/A	85 ppm
I-LIEVALIE (CWO LIO-24-2)	TWA	180 mg/m3
Octane (All isomers) (CAS	Ceiling	50 ppm 1800 mg/m3
11_65_0)		
l11-65-9)		20E nn==
111-65-9)	T\A/A	385 ppm
111-65-9)	TWA	350 mg/m3
111-65-9) Pentane (CAS 109-66-0)	TWA Ceiling	

### US. NIOSH: Pocket Guide to Chemical Hazards

Components	Туре	Value	
		610 ppm	
	TWA	350 mg/m3	
		120 ppm	
Toluene (CAS 108-88-3)	STEL	560 mg/m3	
		150 ppm	
	TWA	375 mg/m3	
		100 ppm	
Xylene (o, m, p isomers) (CAS 1330-20-7)	STEL	655 mg/m3	
		150 ppm	
	TWA	435 mg/m3	
		100 ppm	

### Biological limit values

### **ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
Benzene (CAS 71-43-2)	25 μg/g	S-Phenylmerca pturic acid	Creatinine in urine	*
Ethylbenzene (CAS 100-41-4)	0.7 g/g	Sum of mandelic acid and phenylglyoxylic acid	Creatinine in urine	*
n-Hexane (CAS 110-54-3)	0,4 mg/l	2,5-Hexanedi - on, without hydrolysis		*
	0.4 mg/l	2,5-Hexanedio n, without hydrolysis	Urine	*
Toluene (CAS 108-88-3)	0.3 mg/g	o-Cresol, with hydrolysis	Creatinine in urine	*
	0.03 mg/l	Toluene	Urine	*
	0.02 mg/l	Toluene	Blood	*
Xylene (o, m, p isomers) (CAS 1330-20-7)	1.5 g/g	Methylhippuric acids	Creatinine in urine	*

<sup>\* -</sup> For sampling details, please see the source document

#### Exposure guidelines

### US - California OELs: Skin designation

Benzene (CAS 71-43-2) Can be absorbed through the skin. Cumene (CAS 98-82-8) Can be absorbed through the skin. n-Hexane (CAS 110-54-3) Can be absorbed through the skin. Toluene (CAS 108-88-3) Can be absorbed through the skin. US - Minnesota Haz Subs: Skin designation applies

Cumene (CAS 98-82-8) Skin designation applies. Toluene (CAS 108-88-3) Skin designation applies.

US - Tennesse OELs: Skin designation

Cumene (CAS 98-82-8) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Benzene (CAS 71-43-2) Can be absorbed through the skin. n-Hexane (CAS 110-54-3) Can be absorbed through the skin.

US. NIOSH: Pocket Guide to Chemical Hazards

Cumene (CAS 98-82-8) Can be absorbed through the skin.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Cumene (CAS 98-82-8) Can be absorbed through the skin.

Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses. If splash potential exists, wear full face shield or chemical goggles.

Skin protection

Avoid exposure - obtain special instructions before use. Wear protective gloves. Be aware that the Hand protection

liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be

recommended by the glove supplier.

Other Wear chemical-resistant, impervious gloves. Full body suit and boots are recommended when

handling large volumes or in emergency situations. Flame retardant protective clothing is

recommended.

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a Respiratory protection

risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workplace exposure limits for product or components are exceeded, NIOSH approved equipment should be worn. Proper respirator selection should be determined by adequately trained personnel, based on the contaminants, the degree of potential exposure and published respiratory protection factors. This equipment should be available for nonroutine and emergency

use.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Consult supervisor for special handling instructions. Avoid contact with eyes. Avoid contact with skin. Keep away from food and drink. Wash hands before breaks and immediately after handling

the product. Provide eyewash station and safety shower. Handle in accordance with good

industrial hygiene and safety practice.

### 9. Physical and chemical properties

Light straw to red clear liquid with characteristic strong odor of gasoline. **Appearance** 

Physical state Liquid. Form Liquid.

Color Light straw to red clear.

Characteristic Gasoline Odor (Strong). Odor

Odor threshold Not available. Ч Not available.

44.01 °F (6.67 °C) May start to solidify at this temperature. This is based on data for the following wlelting point/freezing point

ingredient: Cyclohexane. Weighted average: -91.9 deg C (-133.4 deg F)

Initial boiling point and boiling

range

80.06 - 440.06 °F (26.7 - 226.7 °C)

Flash point -40.0 °F (-40.0 °C) (closed cup)

Evaporation rate 10 - 11 BuAc Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Flammability limit - upper

7.1 %

1.3 %

Explosive limit - lower (%)

Not available. Not available.

Explosive limit - upper (%) Vapor pressure

60.8 - 101.3 kPa (20°C)

Vapor density 3 - 4 (Air=1) Relative density Not available.

Solubility(ies)

Solubility (water) Very slightly soluble.

Partition coefficient

Not available.

(n-octanol/water)

Auto-ignition temperature > 500 °F (> 260 °C)

**Decomposition temperature** 

Not available.

scosity

Not available.

Other information

Flash point class

Flammable IA

VOC (Weight %)

100 %

10. Stability and reactivity

Reactivity

None known.

Chemical stability

Stable under normal temperature conditions and recommended use.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Conditions to avoid Heat, flames and sparks. Ignition sources. Contact with incompatible materials. Do not pressurize,

cut, weld, braze, solder, drill, grind or expose empty containers to heat, flame, sparks, static

electricity, or other sources of ignition; they may explode and cause injury or death.

Incompatible materials

Hazardous decomposition

Strong oxidizing agents.

products

No hazardous decomposition products are known.

## 11. Toxicological information

Information on likely routes of exposure

Ingestion Swallowing or vomiting of the liquid may result in aspiration into the lungs,

In high concentrations, mists/vapors may irritate throat and respiratory system and cause

coughing. May cause drowsiness or dizziness.

Skin contact Causes skin irritation, Prolonged contact may cause dryness of the skin.

Eye contact May cause eye irritation.

Symptoms related to the

physical, chemical and toxicological characteristics

Irritation of nose and throat. Irritation of eyes and mucous membranes. Skin irritation.

Unconsciousness. Corneal damage. Narcosis. Cyanosis (blue tissue condition, nails, lips, and/or skin). Decrease in motor functions. Behavioral changes. Edema. Liver enlargement. Jaundice.

Conjunctivitis. Proteinuria. Defatting of the skin. Rash.

Information on toxicological effects

**cute toxicity**Based on available data, the classification criteria are not met.

∪omponents	Species	Test Results			
1,2,4, Trimethylbenzene (CAS	1,2,4, Trimethylbenzene (CAS 95-63-6)				
Acute					
Dermal					
LD50	Rabbit	> 3160 mg/kg			
Inhalation					
LC50	Rat	> 2000 mg/l, 48 Hours			
Oral					
LD50	Rat	6 g/kg			
Benzene (CAS 71-43-2)					
Acute					
Oral					
LD50	Rat	3306 mg/kg			
Cumene (CAS 98-82-8)					
Acute					
Inhalation					
LC50	Mouse	2000 mg/l, 7 Hours			
	Rat	8000 mg/l, 4 Hours			
Oral					
LD50	Rat	1400 mg/kg			
Cyclohexane (CAS 110-82-7)		• •			
Acute					
Oral					
LD50	Rat	12705 mg/kg			

Comp	onents	Species	Test Results
Ethan	ol (CAS 64-17-5)		
	Acute		
	Inhalation		
	LC50	Rat	30000 mg/m3
Ethylb	enzene (CAS 100-41-4)		
	Acute		
	Dermal		
	LD50	Rabbit	> 5000 mg/kg
	Oral		
	LD50	Rat	5.46 g/kg
n-Hept	tane (CAS 142-82-5)		
	Acute		
	Inhalation		
	LC50	Rat	103 mg/l, 4 Hours
n-Hexa	ane (CAS 110-54-3)		
	Acute		
	Oral		
	LD50	Rat	28710 mg/kg
Octane	e (All isomers) (CAS 111-69	5-9)	
	Acute		
	Inhalation		
	LC50	Rat	118 mg/l, 4 Hours
Pentan	e (CAS 109-66-0)		-
	Acute		
	Inhalation		
	LC50	Rat	364 mg/l, 4 Hours
ı oluen	e (CAS 108-88-3)		<b>3</b> ,
	Acute		
	Dermal		
	LD50	Rabbit	14.1 ml/kg
	Inhalation		
	LC50	Rat	8000 mg/l, 4 Hours
	Oral		ooo ngn, 4 nodis
	LD50	Rat	2.6 g/kg
Yylono	(o, m, p isomers) (CAS 13:		2.0 g/ng
Aylene	Acute	30-20-7)	
	Oral		
	LD50	Rat	4200 mg/kg
		_	4300 mg/kg
	prrosion/irritation	Causes skin irritation.	
Serious	s eye damage/eye	Based on available data, the classification criteria ar	e not met.
********	••		
	atory or skin sensitization		
	Respiratory sensitization  Based on available data, the classification criteria are not met.  Skin sensitization  Based on available data, the classification criteria are not met.		
SKI	iii seiisitizatioii	Based on available data, the classification criteria are not met.  This substance may have a potential for sensitization which may provoke an allergic reactio among sensitive individuals.	
Germ c	ell mutagenicity	May cause genetic defects. In in-vitro experiments, neither benzene, toluene not sister-chromatid exchanges (SCEs) or the number of lymphocytes. However, toluene and xylene caused a not observed with benzene in the same concentration the number of sister-chromatid exchanges (SCEs) in heritable genetic damage.	of chromosomal aberrations in human a significant cell growth inhibition which was ons. In in-vivo experiments, toluene changed

#### Carcinogenicity

May cause cancer.

### IARC Monographs. Overall Evaluation of Carcinogenicity

Benzene (CAS 71-43-2) Cumene (CAS 98-82-8) Ethylbenzene (CAS 100-41-4) Gasoline (CAS 86290-81-5)

Toluene (CAS 108-88-3)

Xylene (o, m, p isomers) (CAS 1330-20-7)

1 Carcinogenic to humans.

2B Possibly carcinogenic to humans. 2B Possibly carcinogenic to humans.

2B Possibly carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans.

3 Not classifiable as to carcinogenicity to humans.

#### NTP Report on Carcinogens

Benzene (CAS 71-43-2)

Known To Be Human Carcinogen.

### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Benzene (CAS 71-43-2)

Reproductive toxicity

Suspected of damaging fertility or the unborn child.

Benzene, xylene and toluene have demonstrated animal effects of reproductive toxicity. Animal studies of benzene have shown testicular effects, alterations in reproductive cycles, chromosomal aberrations and embryo/fetotoxicity. Ethanol has demonstrated human effects of reproductive toxicity. Can cause adverse reproductive effects - such as birth defects, miscarriages, or infertility. Avoid exposure to women during early pregnancy. Avoid contact during pregnancy/while nursing.

Specific target organ toxicity single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity repeated exposure

May cause damage to the following organs through prolonged or repeated exposure: Blood.

Kidneys, Liver

Aspiration hazard

May be fatal if swallowed and enters airways.

Chronic effects

Repeated exposure of laboratory animals to high concentrations of gasoline vapors has caused kidney damage and cancer in rats and cancer in mice. Gasoline was evaluated for genetic activity in assays using microbial cells, cultured mammalian cells and rat bone marrow cells. The results were all negative so gasoline was considered nonmutagenic under these conditions. Overexposure to this product or its components has been suggested as a cause of liver abnormalities in laboratory animals and humans. Lifetime studies by the American Petroleum Institute have shown that kidney damage and kidney cancer can occur in male rats after prolonged inhalation exposures at elevated concentrations of total gasoline. Kidneys of mice and female rats were unaffected. The U.S. EPA Risk Assessment Forum has concluded that the male rat kidney tumor results are not relevant for humans. Total gasoline exposure also produced liver tumors in female mice only. The implication of these data for humans has not been determined.

Further information

Symptoms may be delayed.

#### 12. Ecological information

_	4		
Eco	TOX	110	ITV

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Components		Species	Test Results
1,2,4, Trimethylbenzer	ne (CAS 95-63-6)		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	7.19 - 8.28 mg/l, 96 hours
Benzene (CAS 71-43-	2)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	8.76 - 15.6 mg/l, 48 hours
Fish	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)	7.2 - 11,7 mg/l, 96 hours
Cumene (CAS 98-82-8	3)		
Aquatic			
Crustacea	EC50	Brine shrimp (Artemia sp.)	3.55 - 11.29 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	2.7 mg/l, 96 hours
Cyclohexane (CAS 11	0-82-7)		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	3.961 - 5.181 mg/l, 96 hours
		Striped bass (Morone saxatilis)	8.3 mg/l, 96 hours

UNLEADED GASOLINE

913457 Version #: 03 Prepared by 3E Company

Revison date: 23-May-2014 Print date: 23-May-2014

Components		Species	Test Results
Ethanol (CAS 64-17-5)			
Aquatic			
Algae	EC50	Freshwater algae	275 mg/l, 72 Hours
		Marine water algae	1970 mg/l
Fish	LC50	Fathead minnow (Pimephales promelas)	> 100 mg/l, 96 hours
		Freshwater fish	11200 mg/l, 96 Hours
Invertebrate	EC50	Freshwater invertebrate	5012 mg/l, 48 Hours
		Marine water invertebrate	857 mg/l, 48 Hours
Ethylbenzene (CAS 100-41-	4)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	1 - 4 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	4 mg/l, 96 hours
n-Heptane (CAS 142-82-5)			
<b>Aquatic</b> Fish	1.050	10.5	4004 # 001
	LC50	Western mosquitofish (Gambusia affinis)	4924 mg/l, 96 hours
n-Hexane (CAS 110-54-3)  Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	2 101 2 081 mg/L 06 hours
Toluene (CAS 108-88-3)	2000	r across minnow (r interpriates prometas)	2.101 - 2.501 mg/l, 50 mours
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	5.46 - 9.83 mg/l, 48 hours
Fish	LC50	Pink salmon (Oncorhynchus gorbuscha)	•
Xylene (o, m, p isomers) (CA	AS 1330-20-7)	,	3 ,
Aquatic	•		
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	8 mg/l, 96 Hours
sistence and degradability	Not available.		
accumulative potential	Not available.		
Partition coefficient n-octa	nol / water (log h	(ow)	
Benzene (CAS 71-43-2)		2.13	
Cumene (CAS 98-82-8) Cyclohexane (CAS 110-82-7	)	3.66 3.44	
Ethanol (CAS 64-17-5)	,	-0.31	
Ethylbenzene (CAS 100-41-4		3.15	
Hexane (Other Isomers) (CA Octane (All isomers) (CAS 1		3.6 5.18	
Pentane (CAS 109-66-0)		3.39	
Toluene (CAS 108-88-3)	C 1220 00 7)	2.73	
Xylene (o, m, p isomers) (CA n-Heptane (CAS 142-82-5) n-Hexane (CAS 110-54-3)	S 1330-20-7)	3.2 4.66	
pility in soil	Not available.	3.9	
er adverse effects	Not available.		
C. GG VCI 3C CIT CGL3	i vot avallable.		

### 13. Disposal considerations

Disposal instructions

Dispose in accordance with all applicable regulations. This material and its container must be disposed of as hazardous waste. Dispose of this material and its container to hazardous or special waste collection point. Incinerate the material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container.

'lazardous waste code

D001: Waste Flammable material with a flash point <140 °F

D018: Waste Benzene

#### US RCRA Hazardous Waste U List: Reference

Benzene (CAS 71-43-2) U019 Cumene (CAS 98-82-8) U055 Cyclohexane (CAS 110-82-7) U056 Toluene (CAS 108-88-3) U220 Xylene (o, m, p isomers) (CAS 1330-20-7) U239

Waste from residues / unused

Dispose of in accordance with local regulations.

products

Contaminated packaging

Offer rinsed packaging material to local recycling facilities.

### 14. Transport information

DOT

**UN number** UN1203 UN proper shipping name Gasoline

Transport hazard class(es)

Class 3 Subsidiary risk Packing group 11 Environmental hazards

Marine pollutant Yes

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions

139, B33, B101, T8

Packaging exceptions Packaging non bulk Packaging bulk

150 202 242

IATA

UN1203 **UN number** UN proper shipping name Gasoline

Transport hazard class(es)

Class 3 Subsidiary risk Label(s) 3 Packing group Ш Environmental hazards Yes **ERG Code** ЗН

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**IMDG** 

**UN number** UN1203 UN proper shipping name Gasoline

Transport hazard class(es)

Class 3 Subsidiary risk 3 Label(s) Packing group П **Environmental hazards** 

Marine pollutant Yes **EmS** F-E, S-E

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and Not applicable. However, this product is a liquid and if transported in bulk covered under

MARPOL 73/78, Annex I.

the IBC Code

### 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Benzene (CAS 71-43-2)

Cancer

UNLEADED GASOLINE

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Prepared by 3E Company 68

Central nervous system

Blood Aspiration

Skin Eye

Respiratory tract irritation

Flammability

#### CERCLA Hazardous Substance List (40 CFR 302.4)

Benzene (CAS 71-43-2)	LISTED
Cumene (CAS 98-82-8)	LISTED
Cyclohexane (CAS 110-82-7)	LISTED
Ethanol (CAS 64-17-5)	LISTED
Ethylbenzene (CAS 100-41-4)	LISTED
Gasoline (CAS 86290-81-5)	LISTED
Hexane (Other Isomers) (CAS 96-14-0)	LISTED
n-Heptane (CAS 142-82-5)	LISTED
n-Hexane (CAS 110-54-3)	LISTED
Octane (All isomers) (CAS 111-65-9)	LISTED
Pentane (CAS 109-66-0)	LISTED
Toluene (CAS 108-88-3)	LISTED
Xylene (o, m, p isomers) (CAS 1330-20-7)	LISTED

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

#### SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Toluene	108-88-3	0-30
Xylene (o, m, p isomers)	1330-20-7	0-25
1,2,4, Trimethylbenzene	95-63-6	0-6
Cumene	98-82-8	0-5
Ethylbenzene	100-41-4	0-5
Benzene	71-43-2	0-4.9
n-Hexane	110-54-3	0-3
Cyclohexane	110-82-7	0-3

#### Other federal regulations

### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Benzene (CAS 71-43-2)

Cumene (CAS 98-82-8)

Ethylbenzene (CAS 100-41-4)

n-Hexane (CAS 110-54-3)

Toluene (CAS 108-88-3)

Xylene (o, m, p isomers) (CAS 1330-20-7)

### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Pentane (CAS 109-66-0)

Safe Drinking Water Act

Not regulated.

(SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Toluene (CAS 108-88-3)

6594

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Toluene (CAS 108-88-3)

35 % weight/volumn

**DEA Exempt Chemical Mixtures Code Number** 

Toluene (CAS 108-88-3)

594

#### US state regulations

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm,

#### US. Massachusetts RTK - Substance List

1,2,4, Trimethylbenzene (CAS 95-63-6)

Benzene (CAS 71-43-2)

Cumene (CAS 98-82-8)

Cyclohexane (CAS 110-82-7)

Ethanol (CAS 64-17-5)

Ethylbenzene (CAS 100-41-4)

Hexane (Other Isomers) (CAS 96-14-0)

n-Heptane (CAS 142-82-5)

n-Hexane (CAS 110-54-3)

Octane (All isomers) (CAS 111-65-9)

Pentane (CAS 109-66-0)

Toluene (CAS 108-88-3)

Xylene (o, m, p isomers) (CAS 1330-20-7)

### US. New Jersey Worker and Community Right-to-Know Act

1,2,4, Trimethylbenzene (CAS 95-63-6)

Benzene (CAS 71-43-2)

Cumene (CAS 98-82-8)

Cyclohexane (CAS 110-82-7)

Ethanol (CAS 64-17-5)

Ethylbenzene (CAS 100-41-4)

n-Heptane (CAS 142-82-5)

n-Hexane (CAS 110-54-3)

Octane (All isomers) (CAS 111-65-9)

Pentane (CAS 109-66-0)

Toluene (CAS 108-88-3)

Xylene (o, m, p isomers) (CAS 1330-20-7)

### US. Pennsylvania Worker and Community Right-to-Know Law

### 1,2,4, Trimethylbenzene (CAS 95-63-6)

Benzene (CAS 71-43-2)

Cumene (CAS 98-82-8)

Cyclohexane (CAS 110-82-7)

Ethanol (CAS 64-17-5)

Ethylbenzene (CAS 100-41-4)

Gasoline (CAS 86290-81-5)

Hexane (Other Isomers) (CAS 96-14-0)

n-Heptane (CAS 142-82-5)

n-Hexane (CAS 110-54-3)

Octane (All isomers) (CAS 111-65-9)

Pentane (CAS 109-66-0)

Toluene (CAS 108-88-3)

Xylene (o, m, p isomers) (CAS 1330-20-7)

### US. Rhode Island RTK

### 1,2,4, Trimethylbenzene (CAS 95-63-6)

Benzene (CAS 71-43-2)

Cumene (CAS 98-82-8)

Cyclohexane (CAS 110-82-7)

Ethylbenzene (CAS 100-41-4)

n-Hexane (CAS 110-54-3)

Pentane (CAS 109-66-0)

Toluene (CAS 108-88-3)

Xylene (o, m, p isomers) (CAS 1330-20-7)

#### US. California Proposition 65

#### US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Benzene (CAS 71-43-2)

Cumene (CAS 98-82-8)

Ethylbenzene (CAS 100-41-4)

Toluene (CAS 108-88-3)

#### International Inventories O-----

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
*A "Yes" indicates this product co	omplies with the inventory requirements administered by the governing country(s)	

# 16. Other information, including date of preparation or last revision

Issue date

13-May-2013

Revision date

23-May-2014

Version #

Further information

HMIS® is a registered trade and service mark of the NPCA.

**NFPA Ratings** 



#### References

**ACGIH** 

EPA: AQUIRE database

NLM: Hazardous Substances Data Base

US. IARC Monographs on Occupational Exposures to Chemical Agents

HSDB® - Hazardous Substances Data Bank

IARC Monographs. Overall Evaluation of Carcinogenicity National Toxicology Program (NTP) Report on Carcinogens

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

Disclaimer

This material Safety Data Sheet (SDS) was prepared in accordance with 29 CFR 1910.1200 by Valero Marketing & Supply Co., ("VALERO"). VALERO does not assume any liability arising out of product use by others. The information, recommendations, and suggestions presented in this SDS are based upon test results and data believed to be reliable. The end user of the product has the responsibility for evaluating the adequacy of the data under the conditions of use, determining the safety, toxicity and suitability of the product under these conditions, and obtaining additional or clarifying information where uncertainty exists. No guarantee expressed or implied is made as to the effects of such use , the results to be obtained, or the safety and toxicity of the product in any specific application. Furthermore, the information herein is not represented as absolutely complete, since it is not practicable to provide all the scientific and study information in the format of this document, plus additional information may be necessary under exceptional conditions of use, or because of applicable laws or government regulations.

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# AQ 39 - Engine use Limitations

**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.

# Response:

# **Diesel Fire Pump**

Hour Reading on 1/1/2015 45.7 hrs

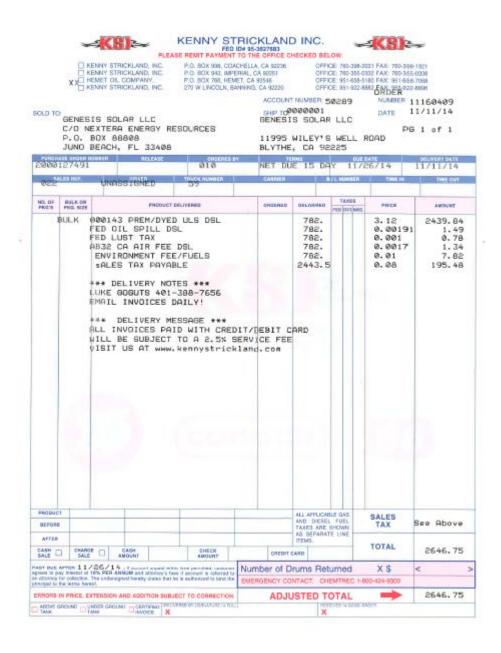
Hour Reading on 1/1/2014 22.2 hrs

Total for 2014 23.5 hrs



### AQ 50 – Gasoline Throughput

**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.



		Fuel D-			
		Diesel/U-		PROD/TECH	
Date	Time	Unleaded	Gallons	Name	Link-Original Receipts
2/25/2014	AM	D-CLEAR			cleardiesel02252014.pdf
2/25/2014	AM	D-RED			Reddiesel02252014.pdf
2/25/2014	AM	UNLEADED			<u>Unleaded02252014.pdf</u>
3/20/2014	AM	D-CLEAR			Cleardiesel03202014.pdf
3/20/2014	AM	D-RED			Reddiesel03202014.pdf
3/20/2014	AM	UNLEADED			<u>Unleaded03202014.pdf</u>
4/22/2014	PM	UNLEADED	1640	Tai Ti Fan Barber	<u>Unleaded04222014.pdf</u>
4/22/2014	PM	D-CLEAR	61	Tai Ti Fan Barber	Cleardiesel04222014.pdf
4/22/2014	PM	D-RED	576	Tai Ti Fan Barber	Reddiesel04222014.pdf
5/13/2014	PM	UNLEADED	442	Tai Ti Fan Barber	Unleaded05132014.pdf
5/13/2014	PM	D-RED	1139	Tai Ti Fan Barber	Reddiesel05132014.pdf
6/2/2014	PM	UNLEADED	647	Tai Ti Fan Barber	Unleaded06022014.pdf
6/2/2014	PM	D-RED	1168	Tai Ti Fan Barber	Reddiesel06022014.pdf
6/17/2014	PM	UNLEADED	413	Tai Ti Fan Barber	Unleaded06172014.pdf
6/17/2014	PM	D-RED			Reddiesel06172014.pdf
7/7/2014	AM	UNLEADED			Unleaded07072014.pdf
7/7/2014	AM	D-RED			Reddiesel07072014.pdf
7/21/2014	PM	D-RED			Reddiesel07212014.pdf
8/20/2014	PM	D-RED			Reddiesel08202014.pdf
8/25/2014	AM	UNLEADED			Unleaded08252014.pdf
9/18/2014	AM	Unleaded	560		Unleaded09182014.pdf
9/18/2014	AM	D-RED	974		Reddiesel09182014.pdf
10/10/2014	PM	UNLEADED	_		Unleaded10102014.pdf
10/10/2014	PM	D-RED			reddiesel10102014.pdf
10/23/2014	PM	UNLEADED			Unleaded10232014.pdf
10/23/2014	PM	D-CLEAR			Cleardiesel10232014.pdf
10/23/2014	PM	D-RED			Reddiesel10232014.pdf
11/11/2014	AM	D-RED			Reddiesel11112014.pdf
11/11/2014	AM	UNLEADED			Unleaded11112014.pdf
, ==, === :	<b></b>		.50	20.001	
Unleaded		Red		Reg. Diesel	Total
8896.00		11142		223	21429.2
6					



FED ID# 95-3627683

#### PLEASE REMIT PAYMENT TO THE OFFICE CHECKED BELOW:

☐ KENNY STRICKLAND, INC.
☐ KENNY STRICKLAND, INC.
☐ HEMET OIL COMPANY,
☐ KENNY STRICKLAND, INC.

P.O. BOX 998, COACHELLA, CA 92236 P.O. BOX 943, IMPERIAL, CA 92251 P.O. BOX 766, HEMET, CA 92546 270 W LINCOLN, BANNING, CA 92220 OFFICE: 760-398-2031 FAX: 760-398-1921 OFFICE: 760-355-0332 FAX: 760-355-0338 OFFICE: 951-658-5180 FAX: 951-658-7068 OFFICE: 951-922-8882 FAX: 951-922-8896

ACCOUNT NUMBER: 50289 DRDER NUMBER

SHIP TO 20000001

DATE 11/11/14

GENESIS SOLAR LLC

PG 1 of 1

11995 WILEY'S WELL ROAD

SOLD TO:

GENESIS SOLAR LLC C/O NEXTERA ENERGY RESOURCES P.O. BOX 88808

JUNO BEACH, FL 33408 BLYTHE, CA 92225 PURCHASE ORDER NUMBER RELEASE ORDERED BY TERMS DUE DATE DELIVERY DATE 2000127491 010 NET DUE 15 DAY 11/26/14 11/11/14 TRUCK NUMBER B / L NUMBER SALES REP. TIME OUT **UNASSIGNED** 022 TAXES NO. OF BULK OR PRODUCT DELIVERED ORDERED **DELIVERED** PRICE **AMOUNT** PKG'S PKG. SIZE FED STATE MISC 2.,62 BULK 000001 87 UNLEAD 10% ETHANOL 450. 1179.00 CA EXCISE TAX-GAS 450. 0.36 162.00 FED EXCISE TAX-GAS 450. 0.183 82.35 0.00179 FED OIL SPILL GAS 450. 0.81 FED LUST TAX 450. 0.001 0.45 0.00146 AB32 CA AIR FEE GAS 450. 0.65 ENVIRONMENT FEE/FUELS 450. 0.01 4.50 1425.3 SALES TAX PAYABLE 0.0275 39.19 \*\*\* DELIVERY NOTES \*\*\* LUKE GOGUTS 401-388-7656 EMAIL INVOICES DAILY! DELIVERY MESSAGE \*\*\* ALL INVOICES PAID WITH CREDIT/DEBIT CARD WILL BE SUBJECT TO A 2.5% SERVICE FEE VISIT US AT www.kennystrickland.com PRODUCT ALL APPLICABLE GAS **SALES** AND DIESEL FUEL See Above TAX **BEFORE** TAXES ARE SHOWN AS SEPARATE LINE **AFTER ITEMS TOTAL** 1468.95 CASH CHARGE CASH CHECK CREDIT CARD SALE SALE **AMOUNT AMOUNT** PAST DUE AFTER 11/26/14 . If account unpaid within time permitted, customer Number of Drums Returned X \$ < > agrees to pay interest at 18% PER ANNUM and attorney's fees if account is referred to an attorney for collection. The undersigned hereby states that he is authorized to bind the EMERGENCY CONTACT: CHEMTREC 1-800-424-9300 principal to the terms hereof. ERRORS IN PRICE, EXTENSION AND ADDITION SUBJECT TO CORRECTION. ADJUSTED TOTAL 1468.95 UNDER GROUND CERTIFIED DELIVERED BY (SIGNATURE IN FULL) ABOVE GROUND RECEIVED IN GOOD ORDER TANK TANK INVOICE



FED ID# 95-3627683



#### PLEASE REMIT PAYMENT TO THE OFFICE CHECKED BELOW:

☐ KENNY STRICKLAND, INC. ☐ KENNY STRICKLAND, INC. ☐ HEMET OIL COMPANY, KENNY STRICKLAND, INC.

P.O. BOX 998, COACHELLA, CA 92236 P.O. BOX 943, IMPERIAL, CA 92251 P.O. BOX 766, HEMET, CA 92546 270 W LINCOLN, BANNING, CA 92220

OFFICE: 760-398-2031 FAX: 760-398-1921 OFFICE: 760-355-0332 FAX: 760-355-0338 OFFICE: 951-658-5180 FAX: 951-658-7068 OFFICE: 951-922-8882 FAX: 951-922-8896

ACCOUNT NUMBER:

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SOLD TO:

SHIP TO: 0000001

50289

DATE

10158154 10/23/14

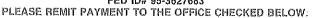
GENESIS SOLAR LLC GENESIS SOLAR LLC

PG 1 of 1

C/O NEXTERA ENERGY RESOURCES 11995 WILEY'S WELL ROAD P.O. BOX 88808 PURCHASE JANER ANTESCH FL REGALEO BLYTHERMS CA DEED DIE DATE 200127491 022 MIKE L. 59 TAXES NO. OF PKG'S PRODUCT DELIVERED ORDERED DELIVERED PRICE AMOUNT FED STATE MISC BULK Φ00001 87 UNLEAD 10% ETHANOL 585 585. 2.59 1515.15 ¢A EXCISE TAX-GAS 585. 0.36 210.60 FED EXCISE TAX-GAS 585. 0.183 107.06 FED OIL SPILL GAS 585. 0.00179 1.05 FED LUST TAX 585. 0.001 0.59 AB32 CA AIR FEE GAS 585. 0.00146 0.84 #1 ENVIRONMENT FEE/FUELS 0.01 585 585. 5, 85 SALES TAX PAYABLE 1835.3 0.0275 50.47 DELIVERY MESSAGE \*\*\* \*\*\*\* ALL INVOICES PAID WITH CREDIT/DEBIT CARD WILL BE SUBJECT TO A 2.5% SERVICE FEE VISIT US AT www.kennystrickland.com PRODUCT ALL APPLICABLE GAS SALES AND DIESEL FUEL TAX BEFORE TAXES ARE SHOWN See Above AS SEPARATE LINE AFTER ITEMS. TOTAL CHARGE [ CASH D CHECK CASH CREDIT CARD <del>1091.61</del> PAST DUE AFTER
If account unpaid within time permitted, customer agrees to pay interest at 18% PER ANNUM and attorney's fees if account is referred to an attorney for collection. The undersigned hereby states that he is authorized to bind the principal to the terms hereof. Number of Drums Returned X \$ > EMERGENCY CONTACT: CHEMTREC 1-800-424-9300 ADJUSTED TOTAL ERRORS IN PRICE, EXTENSION AND ADDITION SUBJECT TO CORRECTION. RECEIVED IN GOOD ORDER DELIVERED BY (SIGNATURE IN FULL) 1891.61 ABOVE GROUND UNDER GROUND CERTIFIED TANK INVOICE



FED ID# 95-3627683





	KENNY	STRICKLAND,	INC.
		STRICKLAND,	
$\Box$	HEMET	OIL COMPANY	<b>′</b> ,
$(X_{i-1})$	KENNY	STRICKLAND	MC

P.O. BOX 998, COACHELLA, CA 92236 P.O. BOX 943, IMPERIAL, CA 92251 P.O. BOX 766, HEMET, CA 92546 270 W LINCOLN, BANNING, CA 92220

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ACCOUNT NUMBER: 50289

GENESIS SOLAR LLC

SHIP TODO O O O O O

ORDER NUMBER

DATE

10156791 10/10/14

PG 1 of 1

SOLD TO:

GENESIS SOLAR LLC C/O NEXTERA ENERGY RESOURCES

P.O. BOX 88808

11995 WILEY'S WELL ROAD

JUNO BEACH, FL 33408 BLYTHE, CA 92225 PURGH) SEASTER PRODER (ADDRESSE) ORDERED B THUE STANCE VERVIEW STANCE S 2000127491 010 NET DUE 15 DAY 10/25/14 10/10/14 aliilii Edelikis WASS I GNED 7022 99 **BULK OR** TAXES NO. OF PRODUCT DELIVERED ORDERED DELIVERED PRICE AMOUNT PKG. SIZE FED STATE MISC. BULK ≬00001 87 UNLEAD 10% ETHANOL 966. 2,77 2675,82 TA EXCISE TAX-GAS 966. 0.36 347.76 FED EXCISE TAX-GAS 966. 0.183 176.78 非ED OIL SPILL GAS 0.00179 966. 1.73 ED LUST TAX 966. 0.001 Ø. 97 9832 CA AIR FEE GAS 966. 0.00146 1.40 ENVIRONMENT FEE/FUELS 966. 0.01 9.66 SALES TAX PAYABLE 3204.5 0.0275 88.12 \*\*\* DELIVERY NOTES \*\*\* UKE GOGUTS 401-388-7656 康MAIL INVOICES DAILY! DELIVERY MESSAGE \*\*\* ALL INVOICES PAID WITH CREDIT/DEBIT CARD WILL BE SUBJECT TO A 2.5% SERV∫CE FEE ♥ISIT US AT www.kennystrickland.com PRODUCT ALL APPLICABLE GAS SALES AND DIESEL FUEL BEFORE TAX See Above TAXES ARE SHOWN AS SEPARATE LINE AFTER ITEMS. TOTAL CHARGE [ CASH CASH 3302.24 CREDIT CARD SALE SALE AMOUNT AMOUNT PAST DUE AFTER 1 [7] / [7] = 7 / 1 A. If account unpaid within time permitted, customer agrees to pay interest at 18% PER ANNUM and attorney's fees if account is referred to an attorney for collection. The undersigned hereby states that he is authorized to bind the Number of Drums Returned X \$ < EMERGENCY CONTACT: CHEMTREC 1-800-424-9300 ERRORS IN PRICE, EXTENSION AND ADDITION SUBJECT TO CORRECTION. ADJUSTED TOTAL 3302.24 □ ABOVE GROUND □ UNDER GROUND □ CERTIFIED DELIVERED BY (SIGNATURE IN FULL)
TANK 79 □ TANK RECEIVED IN GOOD OADER



FED ID# 95-3627683

PLEASE REMIT PAYMENT TO THE OFFICE CHECKED BELOW:



□ K	ENNY STRICKLAND, INC.	
□ K	ENNY STRICKLAND, INC.	
□⊦	EMET OIL COMPANY,	
XXIIK	ENNY STRICKLAND, INC.	

P.O. BOX 998, COACHELLA, CA 92236 P.O. BOX 943, IMPERIAL, CA 92251 P.O. BOX 766, HEMET, CA 92546 270 W LINCOLN, BANNING, CA 92220

OFFICE: 760-398-2031 FAX: 760-398-1921 OFFICE: 760-355-0332 FAX: 760-355-0338 OFFICE: 951-658-5180 FAX: 951-658-7068 OFFICE: 951-922-8882 FAX: 951-922-8896

ACCOUNT NUMBER: 50289

GENESIS SOLAR LLC

ONDER:

SHIP TO: ២០២០០០1

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PG 1 of 1

GENESIS SOLAR LLC C/O NEXTERA ENERGY RESOURCES

P.O. BOX 88808

SOLD TO:

11995 WILEY'S WELL ROAD

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PRODUCT BEFORE					ALL APPLICA AND DIESE TAXES ARE	L FUEL SHOWN	SALES TAX	See Above
AFTER					AS SEPARA	TE LINE	*****	,
	RGE CASH		CHECK AMOUNT	CREDI	T CARD	···-	TOTAL	2017.92
PAST DUE AFTER agrees to pay interest an attorney for collection principal to the terms in the t	ài,∕i àhe, PER ANNUM m. The undersigned h	and attorney's tees	lime permitted, customer if account is referred to is authorized to bind the	Number of EMERGENCY C			X \$ 0-424-9300	< >
ERRORS IN PRICE,			OT TO CORRECTION,	ADJ	usted t			2017.92



FED ID# 95-3627683



### PLEASE REMIT PAYMENT TO THE OFFICE CHECKED BELOW:

☐ KENNY STRICKLAND, INC.☐ KENNY STRICKLAND, INC. HEMET OIL COMPANY, XX KENNY STRICKLAND, INC.

GENESIS SOLAR LLC

P.O. BOX 88808

C/O NEXTERA ENERGY RESOURCES

SOLD TO:

P.O. BOX 998, COACHELLA, CA 92236 P.O. BOX 943, IMPERIAL, CA 92251 P.O. BOX 766, HEMET, CA 92546 270 W LINCOLN, BANNING, CA 92220

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ACCOUNT NUMBER: 50289

ORDER

DATE

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GENESIS SOLAR LLC

PG 1 of 1

11995 WILEY'S WELL ROAD

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FED ID# 95-3627683
PLEASE REMIT PAYMENT TO THE OFFICE CHECKED BELOW:

☐ KENNY STRICKLAND, INC. ☐ KENNY STRICKLAND, INC. ☐ HEMET OIL COMPANY, ☐ KENNY STRICKLAND, INC.

GENESIS SOLAR LLC

SOLD TO:

P.O. BOX 998, COACHELLA, CA 92236 P.O. BOX 943, IMPERIAL, CA 92251 P.O. BOX 766, HEMET, CA 92546 270 W LINCOLN, BANNING, CA 92220 OFFICE: 760-398-2031 FAX: 760-398-1921 OFFICE: 760-355-0332 FAX: 760-355-0338 OFFICE: 951-658-5180 FAX: 951-658-7068 OFFICE: 951-922-8882 FAX: 951-922-8896

ACCOUNT NUMBER:

50289 NUMBE

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DATE

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GENESIS SOLAR LLC

11995 WILEY'S WELL ROAD

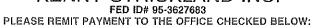
PG 1 of 1

P.O. BOX 88808 JUNO BEACH, FL 33408

C/O NEXTERA ENERGY RESOURCES

BLYTHE, CA 92225 PURCHASE ORDER NUMBER RELEASE ORDERED BY TERMS DUE DATE DELIVERY DATE 2000127491 010 NET DUE 15 DAY 07/22/14 07/07/14 SALES HEP. NUMBER TIME OUT UNASS I GNED TAXES **BULK OR** NO. OF PRODUCT DELIVERED ORDERED DELIVERED PRICE AMOUNT PKG'S FED STATE MISC. BULK 000001 87 UNLEAD 10% ETHANOL 759 759. 3. 40 2580.60 CA EXCISE TAX-GAS 759. 0.36 273.24 FED EXCISE TAX-GAS 759. 0.183 138.90 FED DIL SPILL GAS 759. 0.00179 1.36 FED LUST TAX 759. 0.001 0.76 AB32 CA AIR FEE GAS 759. 0.00145 1.10 ENVIRONMENT FEE/FUELS 759 759. 0.01 7.59 SALES TAX PAYABLE 2996. 0.0275 82.39 \*\*\* DELIVERY NOTES \*\*\* LUKE GOGUTS 401-388-7656 EMAIL INVOICES DAILY! DELIVERY MESSAGE \*\*\* \*\*\* ALL INVOICES PAID WITH CREDIT/DEBIT CARD WILL BE SUBJECT TO A 2.5% SERVICE FEE VISIT US AT www.kennystricklard.com PRODUCT ALL APPLICABLE GAS SALES AND DIESEL FUEL See Above BEFORE TAX TAXES ARE SHOWN AS SEPARATE LINE AFTER ITEMS. CHARGE TOTAL CASH CASH CHECK 3085,94 CREDIT CARD SALE AMOUNT PAST DUE AFTER 27/22/14 If account unpaid within time permitted, customer agrees to pay interest at 18% PER ANNUM and attorney's fees if account is referred to an attorney for collection. The undersigned hereby states that he is authorized to bind the X \$ Number of Drums Returned < > EMERGENCY CONTACT: CHEMTREC 1-800-424-9300 ERRORS IN PRICE, EXTENSION AND ADDITION SUBJECT TO CORRECTION. ADJUSTED TOTAL 3085.94 ABOVE GROUND UNDER GROUND CERTIFIED DELIVERED BY (SIGNATURE IN FULL) TANK 82 RECEIVED IN GOOD ORDER







	KENNY	STRICKLAND,	INC.
	KENNY	STRICKLAND,	INC.
	HEMET	OIL COMPANY	ζ,
XΙΧ	KENNY	STRICKLAND,	INC.

SOLD TO:

P.O. BOX 998, COACHELLA, CA 92236 P.O. BOX 943, IMPERIAL, CA 92251 P.O. BOX 766, HEMET, CA 92546 270 W LINCOLN, BANNING, CA 92220

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ACCOUNT NUMBER:

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SHIP TO: ØØØØØØ1

DATE

6143794 06/17/14

GENESIS SOLAR LLC

C/O NEXTERA ENERGY RESOURCES

11995 WILEY'S WELL ROAD

50289

PG 1 of 1

P.O. BOX 888Ø8

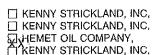
GENESIS SOLAR LLC

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PRODUCT BEFORE								ALL APPLICAE AND DIESEL TAXES ARE	FUEL	SALES Tax	See Above
AFTER						· · · · · · · · · · · · · · · · · · ·		AS SEPARAT		Andrew College Andrew College	
CASH SALE	CHARGE		ÇASH AMOUNT		CHECK AMOUNT		CREDIT C	i i		TOTAL	1711.00
PAST DUE A agrees to pay an attorney for principal to the	or collection.	The under	ANNUM and all signed hereby s	unpaid within li torney's fees if lates that he is	me permitted, customer f account is referred to authorized to bind the		· · · · · · · · · · · · · · · · · · ·	rums Ret	<del></del>	X \$ -800-424-9300	< >
· · · · · · · · · · · · · · · · · · ·			N AND ADDIT	ON SUBJECT	TO CORRECTION.		ADJU	STED TO	TAL		1711.00
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FED ID# 95-3627683





P.O. BOX 998, COACHELLA, CA 92236 P.O. BOX 943, IMPERIAL, CA 92251 P.O. BOX 766, HEMET, CA 92546 270 W LINCOLN, BANNING, CA 92220

OFFICE: 760-398-2031 FAX: 760-398-1921 OFFICE: 760-355-0332 FAX: 760-355-0338 OFFICE; 951-658-5180 FAX: 951-658-7068

OFFICE: 951-922-8882 FAX: 951-922-8896 DRDE: R

ACCOUNT NUMBER: 50289 NUMBER

6142135

SHIP TO: 0000001

GENESIS SOLAR LLC

DATE

06/02/14

PG 1 of 1

SOLD TO:

GENESIS SOLAR LLC C/D NEXTERA ENERGY RESOURCES P.O. BOX 88808 JUNO BEACH, FL 33408

11995 WILEY'S WELL ROAD BLYTHE, CA 92225

REMEASE (0):(0:(1:0::1/2 (0:10) NET DUE 19 UNASSTÖNED TAXES NO. OF BULK OF DELIVERED PRODUCT DELIVERED ORDERED PRICE AMOUNT PKG'S PKG, SIZE FED STATE MISC 641 647 3.40 2199.80 BULK QQQQQ1 87 UNLEAD 10% ETHANOL 0.395 CA EXCISE TAX-GAS 647 255.57 FED EXCISE TAX-GAS 647 Ø.183 118.40 0.00179 FED OIL SPILL GAS 647 1.16 0.001FED LUST TAX 647 Ø. 65 AB32 CA AIR FEE GAS 647 0.94 ENVIRONMENT FEE/FUELS 64 647 Ø. Ø1 6, 47 2576. 5 ゆ. ゆごフち 70.85 SALES TAX PAYABLE \*\*\* DELIVERY NOTES \*\*\* LUKE GOGUTS 401-388-7656 EMAIL INVOICES DAILY! DELIVERY MESSAGE \*\*\* \*\*\* ALL INVOICES PAID WITH CREDIT/DEBIT CARD WILL BE SUBJECT TO A 2.5% SERVICE FEE VISIT US AT www.kennystrickland.com PRODUCT ALL APPLICABLE GAS SALES AND DIESEL FUEL See Above TAX BEFORE TAXES ARE SHOWN AS SEPARATE LINE AFTER ITEMS. TOTAL 2653,84 CASH CHARGE CASH CHECK CREDIT CARD SALE [ AMOUNT AMOUNT PAST DUE AFTER Q6/17/1.4 account unpaid within time permitted, customer agrees to pay interest at 18% PER ANNUM and attorney's fees if account is referred to an attorney for collection. The undersigned hereby states that he is authorized to bind the X \$ Number of Drums Returned EMERGENCY CONTACT: CHEMTREC 1-800-424-9300 principal to the terms hereof, ERRORS IN PRICE, EXTENSION AND ADDITION SUBJECT TO CORRECTION. ADJUSTED TOTAL 2653,84 ABOVE GROUND UNDER GROUND CERTIFIED DELIVERED BY (SIGNATURE IN FULL) RECEIVED IN GOOD ORDER



FED ID# 95-3627683 PLEASE REMIT PAYMENT TO THE OFFICE CHECKED BELOW:

☐ KENNY STRICKLAND, INC.
☐ KENNY STRICKLAND, INC.
☐ HEMET OIL COMPANY,
XXENNY STRICKLAND, INC.

P.O. BOX 998, COACHELLA, CA 92236 P.O. BOX 943, IMPERIAL, CA 92251 P.O. BOX 766, HEMET, CA 92546 270 W LINCOLN, BANNING, CA 92220

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ACCOUNT NUMBER:

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SHIP TO: ២២២២២1

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05/13/14

GENESIS SOLAR LLC

C/O NEXTERA ENERGY RESOURCES

GENESIS SOLAR LLC

PG 1 of 1

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sa 202	LES REP.	UN	DRIVER ASSIG	-	TRUCK NUMBER 59	C/	AARIER		B / L NUME	L NUMBER			TIME OUT
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BEFORE AFTER			CASH	HI WW	cHECK AMOUNT	ckland		AND DIESE TAXES ARE AS SEPARA ITEMS.	L FUEL SHOWN		SALES		
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FED ID# 95-3627683 PLEASE REMIT PAYMENT TO THE OFFICE CHECKED BELOW:

☐ KENNY STRICKLAND, INC. ☐ KENNY STRICKLAND, INC. ☐ HEMET OIL COMPANY, XXENNY STRICKLAND, INC.

P.O. BOX 998, COACHELLA, CA 92236 P.O. BOX 943, IMPERIAL, CA 92251 P.O. BOX 766, HEMET, CA 92546 270 W LINCOLN, BANNING, CA 92220

OFFICE: 760-398-2031 FAX: 760-398-1921 OFFICE: 760-355-0332 FAX: 760-355-0338 OFFICE: 951-658-5180 FAX: 951-658-7068 OFFICE: 951-922-8882 FAX: 951-922-8896

ACCOUNT NUMBER:

NUMBER

SOLD TO:

50289

SHIP TO: ØØØØØØ1

DATE

4137464 04/22/14

GENESIS SOLAR LLC C/O NEXTERA ENERGY RESOURCES GENESIS SOLAR LLC

PG 1 of 1

P.O. BOX 88808

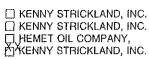
11995 WILEY'S WELL ROAD

	48E(0:10EF#)	UMBER	E	3347/ serasi	A	)វិសន្តរដ្ឋារ	Υ	BLYT	FIF LA	) 928 		DATE	DELIVERY DATE
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02	£	UN	IASSIC	NED	59				1				
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CASH _	CHARG SALE		CASH AMOUNT			ECK UNT		CREDIT	<u> </u>	AND THE PROPERTY OF THE PARTY O	GRAZIA	TOTAL	6929.1
SALE					in time permitte		Num	ber of D	rums P	eturne	ed	X \$	<
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ST DUE	ay interest at∕⁄i for collection.	The undersi			e is authorized			SENCY CO	NTACT (	HEMTA	FC 1-80	0-424-9300	
ST DUE a rees to pa attorney ncipal to t	ay interest at∑i for collection, the terms here	The undersi	gned hereby	states that h		to bind the			NTACT: (			00-424-9300	6929. 1





FED ID# 95-3627683 PLEASE REMIT PAYMENT TO THE OFFICE CHECKED BELOW:



P.O. BOX 998, COACHELLA, CA 92236 P.O. BOX 943, IMPERIAL, CA 92251 P.O. BOX 766, HEMET, CA 92546 270 W LINCOLN, BANNING, CA 92220 OFFICE: 760-398-2031 FAX: 760-398-1921 OFFICE: 760-355-0332 FAX: 760-355-0338 OFFICE: 951-658-5180 FAX: 951-658-7068 OFFICE: 951-922-8882 FAX: 951-922-8896 URDE: R

ACCOUNT NUMBER: 50289

NUMBER

3134589

SHIP TO: QIQ**QIQQQ**1

DATE

03/20/14

PG 1 of 1

GENESIS SOLAR LLC
C/O NEXTERA ENERGY RESOURCES
GENESIS SOLAR LLC

P.O. BOX 88808

SOLD TO:

JUND BEACH, FL 33408

11995 WILEY'S WELL ROAD

BLYTHE, CA 92225

	### DELIVE	ODUCT DELIVERED  JNLEAD 10% ETAX-GAS-TAX-GAS-TAX-GAS-TAX-GAS-TAX-TAX-TAX-TAX-TAX-TAX-TAX-TAX-TAX-TAX	THANOL:- TAXES -NT S6 *** CREDIT	ORDERED 59.	DELIVERED 593, 593, 593, 593, 593, 2331,	TAXES FED STATE MISC.	FINE III	108.5 79 1.0 0.5 46 0.8 5.9
NO. OF BULK OR PKG'S PKG. SIZE	###  #	ODUCT DELIVERED  JNLEAD 10% E TAX-GAS-T ILL GAS-T ILL GA	THANOL- TAXES -NT 56 *** CREDIT	ORDERED  7 59	DELIVERED 593, 593, 593, 593, 593, 2331,	TAXES FED STATE MISC.	PRICE 3.35 0.395 0.183 0.001 0.001 0.001	1986.5 234.2 108.5 79 1.0 0.5 46 0.8
PKG'S PKG. SIZE  BULK	ØØØØØ1 87 UCA EXCISE FED EXCISE FED OIL SPIFED LUST TO AB32 CA AID ENVIRONMENT SALES TAX  *** DELIVER GOGUTS EMAIL INVOICE WILL BE SUE	JNLEAD 10% ETAX-GAS TAX-GAS TAX-GAS TAX-GAS TAX-GAS TAX-GAS TAX-GAS TAX-T REE/FUELS PAYABLE  RY NOTES *** S 401-388-76: ICES DAILY!  ERY MESSAGE ES PAID WITH BJECT TO A 2:	TAXES  -NT  56  *** CREDIT	/DEBIT	3 593. 593. 593. 593. 593. 593. 2331.	FEO STATE MISC.	3.35 0.395 0.183 0.001 0.001 0.001	1986.5 234.2 108.5 79 1.0 0.5 46 0.8
	CA EXCISE FED EXCISE FED OIL SP! FED LUST TA AB38 CA AII ENVIRONMEN *** DELIVEN LUKE GOGUTS EMAIL INVOICE WILL BE SUE	TAX-GAS TAX-GAS TAX-GAS TAX-GAS TAX-GAS TAX-TAX-GAS TAX-TAX-TAX-TAX-TAX-TAX-TAX-TAX-TAX-TAX-	TAXES  -NT  56  *** CREDIT	/DEBIT VICE F	593. 593. 593. 593. 593. 2331.	8	0.395 0.183 0.001 0.001 0.001	234.2 108.5 79 1.0 0.5 46 0.6
		· ····································						
ees to pay interest at 18%	PER ANNUM and attorn	CHECK AMOUNT paid within time permitted, cus ney's fees if account is refer es that he is authorized to bir	red to	ere recent a service	ALL APPLICABL AND DIESEL TAXES ARE SI AS SEPARATE ITEMS. CARD  TUMS Retu	FUEL HOWN LINE	The second of the second	See Abov 2401.8
	NOID AND ADDITION	SUBJECT TO CORRECT	ION.	ADJU	STED TO	TAL		2401.8



FED ID# 95-3627683

PLEASE REMIT PAYMENT TO THE OFFICE CHECKED BELOW:

☐ KENNY STRICKLAND, INC.
☐ KENNY STRICKLAND, INC.
☐ HEMET OIL COMPANY,
XXENNY STRICKLAND, INC.

P.O. BOX 998, COACHELLA, CA 92236 P.O. BOX 943, IMPERIAL, CA 92251 P.O. BOX 766, HEMET, CA 92546 270 W LINCOLN, BANNING, CA 92220 OFFICE: 760-398-2031 FAX: 760-398-1921 OFFICE: 760-355-0332 FAX: 760-355-0338 OFFICE: 951-658-5180 FAX: 951-658-7068 OFFICE: 951-922-8882 FAX: 951-922-8896

ACCOUNT NUMBER:

NOWERR

2131380

SOLD TO:

50289 SHIP TO: 0000001

GENESIS SOLAR LLC

DATE

02/25/14

GENESIS SOLAR LLC

C/O NEXTERA ENERGY RESOURCES

P.O. BOX 88808

11995 WILEY'S WELL ROAD

PG 1 of 1

JUNO BEACH. FL 33408

BLYTHE, CO 98885

200012745 9ACS (19) 022 No. of Bulk or PKG'S PKG. SIZE		DAIYER ASSIGN		Ø1Ø GUOKNUMBER			)UE 15	1		/12/14	02/25/14
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	····		IED	99							
		Р	PRODUCT DEL	IVERED		ORDERED	DELIVERE	n l	AXES STATE MUSC.	PAICE	AMOUNT
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PRODUCT							ALL APPLIC			SALES	
BEFORE AFTER	2000 004 at the remaining and	<u> </u>		,			TAXES AR AS SEPAR	E SHOW	/N	TAX	See Above
CASH CHARG		CASH MOUNT	,	CHECK AMOUNT		CREDIT C				TOTAL	3852.9
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ices to pay intelest an	INA Undaration	attorney for collection. The undersigned hereby states that he is authorized to bind the ncipal to the terms hereof.  RRORS IN PRICE, EXTENSION AND ADDITION SUBJECT TO CORRECTION.					TIACT: C	HEMIF	⊫U 1-80	0-424-9300	1
i attorney for collection, incipal to the terms here	ine undersign of,		ON SUBJEC	T TO CORRECTION.		***	STED .	TOTA			3852, 9



### KENNY STRICKLAND INC. FED ID# 95-3627683



#### PLEASE REMIT PAYMENT TO THE OFFICE CHECKED BELOW:

☐ KENNY STRICKLAND, INC. ☐ KENNY STRICKLAND, INC. X X HEMET OIL COMPANY, KENNY STRICKLAND, INC.

GENESIS SOLAR LLC

C/O NEXTERA ENERGY RESOURCES

SOLD TO:

P.O. BOX 998, COACHELLA, CA 92236 P.O. BOX 943, IMPERIAL, CA 92251 P.O. BOX 766, HEMET, CA 92546 270 W LINCOLN, BANNING, CA 92220

OFFICE: 760-398-2031 FAX: 760-398-1921 OFFICE: 760-355-0332 FAX: 760-355-0338 OFFICE: 951-658-5180 FAX: 951-658-7068 OFFICE: 951-922-8882 FAX: 951-922-8896

ACCOUNT NUMBER: 50289

NUMBER 11160409

SHIP TO 2000001

DATE 11/11/14

GENESIS SOLAR LLC

PG 1 of 1

KIND I E	7491	UMBER		LEASE	ORDERED Ø1Ø	ВУ	NET DU	erms JE 15 Di	AY.	DUE D	6/14	DELIVERY DATE 11/11/14
SALES	S REP.	UNA	SSI GNE	D	TRUCK NUMBER	W = 1	CARRIER		B/L NUN	IBER	TIME IN	TIME OUT
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	KG. SIZE			PRODUCT DE	LIVERED	2	ORDERED	DELIVERED	FED STA	_	PRICE	AMOUNT
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		100				1 - 23	. COM	AND DIESE	L FUEL		TAX	See Above
AFTER	CHARG	VISIT				1 - 23	CREDIT	AND DIESE TAXES ARE AS SEPARA ITEMS.	L FUEL			See Above 2646.7
AFTER  ASH   BT DUE AFT  ees to pay in	CHARG SALE TER 1 1 / interest at collection.	VISIT	CASH AMOUNT 4 . If account NNUM and al	unpaid within	CHECK	klanc	credit of D	AND DIESE TAXES ARE AS SEPARA ITEMS.	SHOWN SHOWN TE LINE	d	TAX TOTAL X \$	







☐ KENNY STRICKLAND, INC.
☐ KENNY STRICKLAND, INC.
☐ HEMET OIL COMPANY,
XX KENNY STRICKLAND, INC.
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P.O. BOX 998, COACHELLA, CA 92236 P.O. BOX 943, IMPERIAL, CA 92251 P.O. BOX 766, HEMET, CA 92546 270 W LINCOLN, BANNING, CA 92220

OFFICE: 760-398-2031 FAX: 760-398-1921 OFFICE: 760-355-0332 FAX: 760-355-0338 OFFICE: 951-658-5180 FAX: 951-658-7068 OFFICE: 951-922-8882 FAX: 951-922-8896

ACCOUNT NUMBER:

INUMBERIE

GENESIS SOLAR LLC

SOLD TO:

C/O NEXTERA ENERGY RESOURCES

50289

SHIP TO: 0000001

10158153 DATE 10/23/14

GENESIS SOLAR LLC

PG 1 of 1

PURCHAS	E UNDER I	IUMBER "	FL RELEASE	ORDERED B	Y	n. i i rufi	HMS <sup>Lal-i</sup>	57 £ [	125 pus i	ATE	DELIVERY DAT	
21 <b>/21/21/25 1</b> 2 \$70 E	27491 as mar		DRIVER	7/4/3 TRUCK NUMBER	<u> </u>	IFT DU	IE 15	DA	/ 11/17 L NUMBER	7/14 TIME IN	10/23/14 TME OU	
Ø22	Contraction	MIKE	L	59								
NO. OF PKG'S	BULK OR PKG. SIZE	1000	PRODU	CT DELIVERED		ORDERED	DELIVE	RED	TAXES FED STATE MISC.	PRICE	AMOUNT	
BULK		FED OI FED LU AB32 C Ø1 ENV SALES	L SPILL ST TAX A AIR FE IRONMENT TAX PAY	E DSL FEE/FUELS	42	891 891	891 891 891 891 891 2668	. u . u		2.99 Ø.00191 Ø.001 Ø.0017 Ø.01 Ø.08	2664. Z 1. 7 Z. 8 1. 5 8. 9 213. 4	70 19 12 11
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PRODUCT			1 1 1 1 1 1				ALL APPL AND DIE TAXES A	ESEL	FUEL	SALES TAX	V	
AFTER		na saladaniesanoma				VPV 182	AS SEPA		LINE		<del>See Abov</del>	<u>e</u>
CASH  SALE	CHARG		CASH MOUNT	CHECK AMOUNT		CREDIT C	CARD			TOTAL	2007 5	~7
IST DUE AFTER  If account unpaid within time permitted, custome rees to pay interest at 18% PER ANNUM and attorney's fees if account is referred to attorney for collection. The undersigned hereby states that he is authorized to bind the residual to the terms have to the control of the state					Number of Drums Returned X \$  EMERGENCY CONTACT: CHEMTREC 1-800-424-9300					<		
principal to the terms hereof.  ERRORS IN PRICE, EXTENSION AND ADDITION SUBJECT TO CORRECTION.					EMETICENT CONTROL CHEMITEC 1000 121 0000							
ABOVE GROUND UNDER GROUND CERTIFIED DELIVERED BY (SIGNATURE IN I					Contraction (Contraction)			A Supe	ED IN GOOD ORD	ico.	2890.5	7





FED ID# 95-3627683 PLEASE REMIT PAYMENT TO THE OFFICE CHECKED BELOW:

	KENNY	STRICKLAND, INC.
	KENNY	STRICKLAND, INC.
$\nabla \nabla$	HEMET	OIL COMPANY, STRICKLAND, INC.
<b>^</b> ^[~]	KEPINIA	STRICKLAND INC.

GENESIS SOLAR LLC

SOLD TO:

P.O. BOX 998, COACHELLA, CA 92236 P.O. BOX 943, IMPERIAL, CA 92251 P.O. BOX 766, HEMET, CA 92546 270 W LINCOLN, BANNING, CA 92220

OFFICE: 760-398-2031 FAX: 760-398-1921 OFFICE: 760-355-0332 FAX: 760-355-0338 OFFICE: 951-658-5180 FAX: 951-658-7068 OFFICE: 951-922-8882 FAX: 951-922-8896

ACCOUNT NUMBER: 50289

NUMBER 10156790

SHIP TOPPOPOPOP1

10/10/14 DATE

GENESIS SOLAR LLC

PG 1 of 1

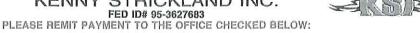
C/O NEXTERA ENERGY RESOURCES P.O. BOX 88808 JUNO BEACH, FL 33408

BLYTHE, CA 92225

11995 WILEY'S WELL ROAD

10/25/14 2000127491 010 NET DUE 15 DAY 10/10/14 daya reamu TAXES NO. OF BULK OR ORDERED DELIVERED PRICE PRODUCT DELIVERED AMOUNT PKG'S PKG. SIZE FED STATE MISC. BULK ᲢᲢᲢ143 PREM/DYED ULS DSL 840 840. 3.01 2528.40 0.00191 FED DIL SPILL DSL 840. 1.60 0.001 非ED LUST TAX 840. Ø. 84 AB32 CA AIR FEE DSL 840. 0.0017 1.43 ENVIRONMENT FEE/FUELS 840 840. 0.01 8.40 0.08 2532.3 202.58 SALES TAX PAYABLE \*\*\* DELIVERY NOTES \*\*\* UKE GOGUTS 401-388-7656 @MAIL INVOICES DAILY! DELIVERY MESSAGE \*\*\* ALL INVOICES PAID WITH CREDIT/DEBIT CARD WILL BE SUBJECT TO A 2.5% SERVICE FEE VISIT US AT www.kennystrickland.com PRODUCT ALL APPLICABLE GAS SALES AND DIESEL FUEL TAX See Above BEFORE TAXES ARE SHOWN AS SEPARATE LINE AFTER ITEMS. TOTAL CHARGE SALE [] CASH CHECK 2743.25 CREDIT CARD AMOUNT AMOUNT PAST DUE AFTER 1 77 / 12-F / 1 4. If account unpaid within lime permitted, customer agrees to pay interest at 1855 PER ANNUM and attorney's lees if account is referred to Number of Drums Returned Х\$ < > an attorney for collection. The undersigned hereby states that he is authorized to bind the EMERGENCY CONTACT: CHEMTREC 1-800-424-9300 principal to the terms hereof, 2743.25 ADJUSTED TOTAL ERRORS IN PRICE, EXTENSION AND ADDITION SUBJECT TO CORRECTION. ABOVE GROUND UNDER GROUND CERTIFIED DELIVERED BY (SIGNATURE IN FULL)
TANK 91 TANK RECEIVED IN GOOD ORDER





☐ KENNY STRICKLAND, INC. ☐ KENNY STRICKLAND, INC. ☐ HEMET OIL COMPANY, X I KENNY STRICKLAND, INC. P.O. BOX 998, COACHELLA, CA 92236 P.O. BOX 943, IMPERIAL, CA 92251 P.O. BOX 766, HEMET, CA 92546 270 W LINCOLN, BANNING, CA 92220

OFFICE: 760-398-2031 FAX: 760-398-1921 OFFICE: 760-355-0332 FAX: 760-355-0338 OFFICE: 951-658-5180 FAX: 951-658-7068 OFFICE: 951-922-8882 FAX: 951-922-8896

ACCOUNT NUMBER: 50289

THE PARTY

9154031

PG 1 of 1

SHIP TOฆญญญญดี1

DATE

09/18/14

SOLD TO: GENESIS SOLAR LLC

C/O NEXTERA ENERGY RESOURCES

P.O. BOX 88808

JUNO BEACH, FL 33408

11995 WILEY'S WELL ROAD

GENESIS SOLAR LLC

BLYTHE, CA 92225 RELEASE PURCHASE ORDER NUMBER ORDERED BY DUE DATE TERMS 2000127491 010 NET DUE 15 DAY 10/03/14 09/18/14 TRUCK NUMBER THE OUT 022 UNASSIGNED 59 TAXES NO. OF **BULK OR** ORDERED DELIVERED PRICE PRODUCT DELIVERED AMOUNT PKG. SIZE FED STATE MISC 申ULK ወወወ143 PREM/DYED ULS DSL 974. 3.17 3087.58 ED OIL SPILL DSL 974. 0.00191 1.86 FED LUST TAX 974. 0.001 0.97 AB32 CA AIR FEE DSL 974. 0.0017 1.66 ENVIRONMENT FEE/FUELS 974. 0.01 9.74 SALES TAX PAYABLE 3092.1 0.08 247, 37 \*\*\* DELIVERY NOTES \*\*\* LUKE GOGUTS 401-388-7656 EMAIL INVOICES DAILY! DELIVERY MESSAGE \*\*\* ALL INVOICES PAID WITH CREDIT/DEBIT CARD WILL BE SUBJECT TO A 2.5% SERVICE FEE VISIT US AT www.kennystrickland.com PRODUCT ALL APPLICABLE GAS SALES AND DIESEL FUEL BEFORE TAX TAXES ARE SHOWN Bee Above AS SEPARATE LINE AFTER ITEMS. TOTAL CHARGE C SALE [ CASH CHECK CREDIT CARD AMOUNT 3349.18 AMOUNT PAST DUE AFTER

If account unpaid within time permitted, customer agrees to pay interesting APER ANNUM and attorney's fees if account is referred to an attorney for collection. The undersigned hereby states that he is authorized to bind the Number of Drums Returned X \$ < > EMERGENCY CONTACT: CHEMTREC 1-800-424-9300 principal to the terms hereof. ERRORS IN PRICE, EXTENSION AND ADDITION SUBJECT TO CORRECTION. ADJUSTED TOTAL 3349.1A ABOVE GROUND UNDER GROUND CERTIFIED DELIVERED BY (SIGNATURE IN FULL) TANK 92 RECEIVED IN GOOD ORDER





FED ID# 95-3627683
PLEASE REMIT PAYMENT TO THE OFFICE CHECKED BELOW:

		KENNY STRICKLAND, INC.	
		KENNY STRICKLAND, INC.	
X	X	HEMET OIL COMPANY,	
		KENNY STRICKLAND, INC.	

JUNO BEACH, FL 33408

C/O NEXTERA ENERGY RESOURCES

SOLD TO: GENESIS SOLAR LLC

P.O. BOX 88808

P.O. BOX 998, COACHELLA, CA 92236 P.O. BOX 943, IMPERIAL, CA 92251 P.O. BOX 766, HEMET, CA 92546 270 W LINCOLN, BANNING, CA 92220 OFFICE: 760-398-2031 FAX: 760-398-1921 OFFICE: 760-355-0332 FAX: 760-355-0338 OFFICE: 951-658-5180 FAX: 951-658-7068 OFFICE: 951-922-8882 (資本) 25本922-8896

ACCOUNT NUMBER: 50289

NUMBER 8150592 08/20/14 DATE

部作写is SOLAR LLC

PG 1 of 1

11995 WILEY'S WELL ROAD BLYTHE, CA 92225

288897	ORDER NUMB	R RE	LEASE	O JODERED	BY	NET DE	E <sup>MS</sup> 15 Di	Y 09%	PATF 14	089/207/21TF
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		S. 1. 114 . S. November 1991. State Lo. 3 See								
	BULK OR KG. SIZE		PRODUCT DELI	VERED	10	ORDERED	DELIVERED	TAXES FED STATE MISS	PRICE	AMOUNT
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	EMF **1	KE GOGUTS AIL INVOI • DELIVE	401-36 CES DA1	38-7656	DITZ	FRIT C	aga			5
	WIL	L BE SUB	JECT TO	) A 2.5% nnystric	SERVI	CE FEE				
						Ψ.				
PRODUCT							ALL APPLICA	BLE GAS	CALEO	
BEFORE							AND DIESE TAXES ARE AS SEPARA	SHOWN	SALES TAX	See Above
AFTER				1			ITEMS.		TOTAL	3640.25
SALE	CHARGE SALE	CASH		CHECK AMOUNT		CREDIT	CARD			JUTEI LO
ST DUE AF	interest at 18%	PER ANNUM and a	ttorney's fees if	ne permitted, custom	0		rums Re		X \$	<
rees to pay i		indersigned hereby	states that he is	authorized to bind th	e FMEE	RGENCY CO	NTACT CH		800-424-9300	
rees to pay i attorney for ncipal to the	terms hereof.			authorized to bind the	CIVIER	RGENCY CO	NTACT: CH		800-424-9300	3640.25



FED ID# 95-3627683



#### PLEASE REMIT PAYMENT TO THE OFFICE CHECKED BELOW:

☐ KENNY STRICKLAND, INC. ☐ KENNY STRICKLAND, INC.
☐ HEMET OIL COMPANY, XX KENNY STRICKLAND, INC.

P.O. BOX 998, COACHELLA, CA 92236 P.O. BOX 943, IMPERIAL, CA 92251 P.O. BOX 766, HEMET, CA 92546 270 W LINCOLN, BANNING, CA 92220

OFFICE: 760-398-2031 FAX: 760-398-1921 OFFICE: 760-355-0332 FAX: 760-355-0338 OFFICE: 951-658-5180 FAX: 951-658-7068 OFFICE: 951-922-8882 FAX: 951-922-8896

RECEIVED IN GOOD ORDER

ACCOUNT NUMBER:

NOR BER

7147060

SOLD TO:

50289 SHIP TO: @@@@@@1

GENESIS SOLAR LLC

DATE

07/21/14

GENESIS SOLAR LLC

C/O NEYTERO ENERGY DEGOLDOGO

ABOVE GROUND UNDER GROUND CERTIFIED DELIVERED BY (SIGNATURE IN FULL)

	P.O.	BO	X 888	18	RESOURCES		11995					9G 1 o	f 1
DUBCH	JUND ASE ORDER N			L 3340	ORDERED	n v	BLYTH	E, CA	922	25 DUE 1	DATE	DELIVERY	
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	LES REP.		DR	VER	TRUCK NUMBER		CARRIER			UMBER	TIME IN		I / I 4
023			UNASSI		59		OTATINE!			OMBEN	1		12.001
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	BULK	FEI AB: EI si *** LUI EMI ***	D OIL D LUST 32 CA NVIRON ALES T * DELI KE GOG AIL IN - INVO LL BE	SPILL TAX AIR FE MENT F AX PAY VERY N UTS 40 IVOICES IVERY SUBJEC	E DSL EE/FUELS	SERV	ICE FE	114 114 114 378	6. 6.		3.30 0.0019 0.0017 0.0017 0.01 0.08	9 <b>1</b>	81.80 2.19 1.15 1.94 11.46 02.97
PRODUC							_	AND DI	JCABLE G ESEL FU	EL	SALES TAX	See (	Above
AFTER									RATE LI				
CASH SALE	CHARG		CASH AMOUN	-	CHECK AMOUNT		CREDIT O				TOTAL	41	ð1.51
an attorney	AFTER Day interest at for collection the terms here	The und	1 4 If acc ANNUM a dersigned her	count unpaid wi nd attorney's f eby states that	thin time permitted, custome ees if account is referred to the is authorized to bind the		ber of D				X \$ 00-424-9300	<	>
			ON AND A	DITION SUB	JECT TO CORRECTION.		ADJU	STED	TOTA	\L	-	410	01.51



FED ID# 95-3627683



PLEASE REMIT PAYMENT TO THE OFFICE CHECKED BELOW:

	KENNY	STRICKLAND,	INC.
	KENNY	STRICKLAND,	INC.
	HEMET	OIL COMPANY	1,
Y Y	KENINIV	STDICK! AND	INIC

P.O. BOX 998, COACHELLA, CA 92236 P.O. BOX 943, IMPERIAL, CA 92251 P.O. BOX 766, HEMET, CA 92546 270 W LINCOLN, BANNING, CA 92220

OFFICE: 760-398-2031 FAX: 760-398-1921 OFFICE: 760-355-0332 FAX: 760-355-0338 OFFICE: 951-658-5180 FAX: 951-658-7068 OFFICE: 951-922-8882 FAX: 951-922-8896

50289

ACCOUNT NUMBER:

RABER

DATE

7145626

GENESIS SOLAR LLC

SHIP TO: ៧៧៧៧៧៧៧1

07/07/14

C/O NEXTERA ENERGY RESOURCES

SOLD TO:

GENESIS SOLAR LLC

PG 1 of 1

P.O. BOX 88808 JUNO BEACH, FL 33408

11995 WILEY'S WELL ROAD BLYTHE, CA 92225

	ASE ORDER N		1.0	LEASE	ORDERED (	зү	BLYIN	RMS			JE DATE	DELIVERY DATE
MANUAL PROPERTY.	012749	1			010		NET D	UE 1	5 DA	Y Ø	7/22/14	07/07/1
s/ Øæ	ALES REP.	UNF	DRIVER ASSIGN	ED	TRUCK NUMBER		CARRIER		8/	LNUMBER	TIME IN	TIME OUT
NO. OF PKG'S	BULK OR PKG. SIZE			PRODUCT DE	LIVERED		ORDERED	DELIV	ERED F	TAXES	PRICE	AMOUNT
NO. OF PKG. SIZE  BULK		PRODUCT DELIVERED  ### DELIVERY MESSAGE ***  ABJULT TAX  ### DELIVERY MOTES ***  ### DELIVERY MESSAGE ***  ALL INVOICES PAID WITH CRE  WILL BE SUBJECT TO A 2.5%  VISIT US AT www.kennystric					CE FE	781. 781. 781. 781. 781. 2651.			3.39 2.001 2.001 2.001 2.001 2.08	2647.5 91 1.4 Ø.
							3 A = 183		2		, F	
PRODUCT	1-1	1/2						AND D	PLICABLE IESEL F ARE SHO	UEL	SALES TAX	See Abov
AFTER			m ligary.						ARATE		70711	
SALE	CHARGE SALE		CASH MOUNT		CHECK AMOUNT	Name of the last	CREDIT C	ARD	J 10. 2		TOTAL	2871.1
est DUE AFTER  137 / 32 / 14 account unpaid within time permitted, customs est to pay interest at 18% PER ANNUM and attorney's less if account is referred to altorney for collection. The undersigned hereby states that he is authorized to bind the cipal to the terms hereof.					D. C.	er of Dr			Salar Salar	X \$ 800-424-9300	<	
ncinal to t	ne terms nere	RRORS IN PRICE, EXTENSION AND ADDITION SUBJECT TO CORRECTION.					ON AD HISTED TOTAL					
ncipal to t	The second second	TENSION A	ND ADDITIO	ON SUBJECT	T TO CORRECTION.	-	ADJU	STED	TOT	AL		2871.1



SOLD TO:

principal to the terms hereof.

ERRORS IN PRICE, EXTENSION AND ADDITION SUBJECT TO CORRECTION.

ABOVE GROUND INDER GROUND CERTIFIED DELIVERED BY (SIGNATURE IN FULL TANK 96.

### KENNY STRICKLAND INC.



FED ID# 95-3627683 PLEASE REMIT PAYMENT TO THE OFFICE CHECKED BELOW:

	KENNY	STRICKLAND, INC.	P.O.	во
	KENNY	STRICKLAND, INC.	P.O.	ВО
П	HEMET	OIL COMPANY, STRICKLAND, INC.	P.O.	80
γX	KENNY	STRICKLAND, INC.	270 \	ΝŁ

X 998, COACHELLA, CA 92236 X 943, IMPERIAL, CA 92251 X 766, HEMET, CA 92546 INCOLN, BANNING, CA 92220

OFFICE: 760-398-2031 FAX: 760-398-1921 OFFICE: 760-355-0332 FAX: 760-355-0338 OFFICE: 951-658-5180 FAX: 951-658-7068 OFFICE: 951-922-8882 FAX: 951-922-8896

ACCOUNT NUMBER:

50289

DRDER

SHIP TO: **@@@@@@1** 

GENESIS SOLAR LLC

EMERGENCY CONTACT: CHEMTREC 1-800-424-9300

HECEIVED IN GOOD ORDER

ADJUSTED TOTAL

DATE

6143793 06/17/14

GENESIS SOLAR LLC C/O NEXTERA ENERGY RESOURCES

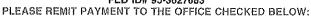
PG 1 of 1

3554.86

P.O. BOX 88808 11995 WILEY'S WELL ROAD JUND BEACH, FL 33408 BLYTHE, CA 92225 PUNCHASE ORDER NUMBER RELEASE DISUVERYDATE 2000127491 010 NET DUE 15 DAY 07/02/14 Ø6/17/14 UNASS I GNED NO. OF BULK OR TAXES PRODUCT DELIVERED ORDERED DELIVERED PRICE AMOUNT PKG'S PKG. SIZE FEO STATE MISC. BULK 000143 PREM/DYED ULS DSL 953 953. 3.44 3278,32 FED OIL SPILL DSL 953. 0.00191 1.82 FED LUST TAX 953. 0.001 0.95 AB32 CA AIR FEE DSL 953. 0.0017 1.62 ENVIRONMENT FEE/FUELS 953 953. 0.01 9.53 SALES TAX PAYABLE 3282.7 0.08 262,62 \*\*\* DELIVERY NOTES \*\*\* LUKE GOGUTS 401-388-7656 EMAIL INVOICES DAILY! DELIVERY MESSAGE \*\*\* ALL INVOICES PAID WITH CREDIT DEBIT CARD WILL BE SUBJECT TO A 2.5% SERVICE FEE VISIT US AT www.kennystricklard.com PRODUCT ALL APPLICABLE GAS SALES AND DIESEL FUEL BEFORE TAX See Above TAXES ARE SHOWN AS SEPARATE LINE AFTER ITEMS. TOTAL CHARGE CASH CASH CHECK CREDIT CARD 3554.86 SALE SALE AMOUNT PAST DUE AFTER 217/132/1 4. If account unpaid within time permitted, customer agrees to pay interest at 18% PER ANNUM and altorney/s lees if account is referred to an attorney for collection. The undersigned hereby states that he is authorized to bind the Number of Drums Returned X \$ < >



FED ID# 95-3627683





☐ KENNY STRICKLAND, INC. ☐ KENNY STRICKLAND, INC. HEMET OIL COMPANY,

SOLD TO:

P.O. BOX 998, COACHELLA, CA 92236 P.O. BOX 943, IMPERIAL, CA 92251 P.O. BOX 766, HEMET, CA 92546 270 W LINCOLN, BANNING, CA 92220

OFFICE: 760-398-2031 FAX: 760-398-1921 OFFICE: 760-355-0332 FAX: 760-355-0338 OFFICE: 951-658-5180 FAX: 951-658-7068 OFFICE: 951-922-8882 FAX: 951-922-8896

50289

ACCOUNT NUMBER:

ORDER NUMBER

DATE

6142136

SHIP TO: 0000001

06/02/14

GENESIS SOLAR LLC GENESIS SOLAR LLC C/O NEXTERA ENERGY RESOURCES

PG 1 of 1

P.O. BOX 88808

11995 WILEY'S WELL ROAD JUNO BEACH, FL 33408 BLYTHE, CA 92225 PURCHASE ORDER NUMBER RELEASE TERMS DUE DATE 2000127491 010 NET DUE 15 DAY 06/17/14 **06/02/14** UNASSI (INEL) TAXES NO. OF **BULK OR** PRODUCT DELIVERED ORDERED DELIVERED PRICE AMOUNT PKG'S PKG. SIZE FED STATE MISC. 000143 PREM/DYED ULS DSL BULK 1168 1168 3, 29 3842,72 FED OIL SPILL DSL 1168 0.00191 2.23 FED LUST TAX 1168 0.001 1, 17 AB32 CA AIR FEE DSL 1168 0.001 1.98 ENVIRONMENT FEE/FUELS 1168 1168 0.01 11:68 SALES TAX PAYABLE 3848 0,08 307.85 \*\*\* DELIVERY NOTES \*\*\* LUKE GOGUTS 401-388-7656 EMAIL INVOICES DAILY! DELIVERY MESSAGE \*\*\* ALL INVOICES PAID WITH CREDIT DEBIT CARD WILL BE SUBJECT TO A 2.5% SERVICE FEE VISIT US AT www.kennystrickland.com PRODUCT ALL APPLICABLE GAS SALES AND DIESEL FUEL See Above BEFORE TAX TAXES ARE SHOWN AS SEPARATE LINE AFTER ITEMS, TOTAL CASH CHARGE SALE CASH CHECK 4167.63 CREDIT CARD AMOUNT PAST DUE AFTER QE/17/1.4 account unpaid within time permitted, customer agrees to pay interest at 18% PER ANNUM and attorney's fees if account is referred to an attorney for collection. The undersigned hereby states that he is authorized to bind the Number of Drums Returned X \$ > EMERGENCY CONTACT: CHEMTREC 1-800-424-9300 principal to the terms hereof, ERRORS IN PRICE, EXTENSION AND ADDITION SUBJECT TO CORRECTION. ADJUSTED TOTAL 4167.63 X HECEINED IN GOOD OBOEU DELIVERED BY (SIGNATURE IN FULL ☐ ABOVE GROUND ☐ UNDER GROUND ☐ CERTIFIED INVOICE

	*			<b>₽</b> PLE	FEI SE REMIT PAYMEN	D# 95-	3627683			W:		
	□ H	ENNY ST ENNY ST EMET OI ENNY ST	RICKLAN L COMPA	ID, INC. ID, INC. NY,	P.O. BOX 998, CC P.O. BOX 943, IMI P.O. BOX 766, HE 270 W LINCOLN, E	ACHELLA PERIAL, C MET, CA	A, CA 92236 CA 92251 92546	(	OFFICE OFFICE OFFICE	: 760-398-2 : 760-355-0 : 951-658-5	031 FAX: 760-39: 332 FAX: 760-35: 180 FAX: 951-65: 882 FAX: 951-92:	5-0338 3-7068
							ACCOUN"	Г NUMBE	R:		NUMBERF	{
SOLD TO		esis :	SOLAR	II C			SHIP TO:	0000 818 8	001	50289 R LLC	DATE	5140096 05/13/14
	C/O P.O.	NEXTI BOX	ERA E 8880	NERGY 8	RESOURCES		1199	5 WIL	EY' 9	3 WELL	ROAD	PG 1 of 1
PURCHA	ASE ORDER N	BEAL UMBER		ELEASE	ORDERED	ВҮ	BLYT	E C	A 98	9225 DUE	DATE	DELIVERY DATE
	0012749 LES REP.	1	DRIVE	R	Ø1Ø TRUCK NUMBER		NET :	DUE 1		AY Ø5	5/28/14	05/13/14
Ø2	2	1U	NASS I	GNED	59		CANDIDICAL SA			TIVIII SET	11000-110	TIME OUT
NO. OF PKG'S	BULK OR PKG. SIZE			PRODUCT	DELIVERED		ORDERED	DELIVER	ED FE	TAXES ED STATE MISC.	PRICE	AMOUNT
	BULK	FED FED AB38 ENV sAL *** 1 LUKE EMAI *** ALL WILL	OIL S LUST CA F IRONN ES TF DELIV GOGL L INV DELI INVOI BE S	SPILL TAX AIR FE MENT F AX PAY JERY N JTS 40 JOICES LVERY LCES P GUBJEC	E DSL EE/FUELS	EDIT	VICE F	11 11 11 38	39. 39. 39. 39. 37. 9		3.40 0.001 0.001 0.01 0.08	1.14
PRODUCT								ALL APPLI			SALES	
BEFORE								AND DIE TAXES AF AS SEPAI	RE SHO	WN	TAX	See Above
CASH SALE	CHARGE SALE		CASH		CHECK			ITEMS.			TOTAL	
PAST DUE A	FTER	W PER KN	. If account	ttorney's fee	AMOUNT  time permitted, customer if account is referred to a sauthorized to bind the		per of Dr	ums R				4199.47
principal to th	e terms hereof.					EMERG	SENCY CON				0-424-9300	
				IEIEN DELIVE	CT TO CORRECTION.		ADJUS					4199.47
TANK	OUND UND	<	INVOI		- HOSPITATIONE IN LOCK	,			X	IN GOOD ORD	5.0	



FED ID# 95-3627683

PLEASE REMIT PAYMENT TO THE OFFICE CHECKED BELOW:



$\square$ K	ENNY	STR	ICKLA	ND,	INC.
$\square$ K	ENNY	STR	ICKL/	ND,	INC.
$\square$ H	EMET	OIL	COMF	PANY	<b>'</b> ,
$\nabla X$	ENNY	STR	ICKLA	ΝD,	INC.

P.O. BOX 998, COACHELLA, CA 92236 P.O. BOX 943, IMPERIAL, CA 92251 P.O. BOX 766, HEMET, CA 92546

270 W LINCOLN, BANNING, CA 92220

OFFICE: 760-398-2031 FAX: 760-398-1921 OFFICE: 760-355-0332 FAX: 760-355-0338 OFFICE: 951-658-5180 FAX: 951-658-7068 OFFICE: 951-922-8882 FAX: 951-922-8896

ACCOUNT NUMBER:

NOWHERER

SOLD TO:

SHIP TO: 0000001

50289

DATE

4137466 04/22/14

GENESIS SOLAR LLC C/O NEXTERA ENERGY RESOURCES

11995 WILEY'S WELL ROAD

GENESIS SOLAR LLC

PG i of 1

P.O. BOX 88808

PLYTHE, CA-98825 IUNO BEACH, EL 33408 2000127491 010 NET DUE 05/07/14 DAY 04/22/14 JCK NUMBER B / I. NUMBER 022 UNASSIGNED 59 TAXES BULK OR PRODUCT DELIVERED ORDERED DELIVERED PRICE **AMOUNT** PKG, SIZE FED STATE MISC BULK 000143 PREM/DYED ULS DSL 576 3.41 1964.16

PKG'S FED OIL SPILL DSL 576 0.00191 1.10 FED LUST TAX 0.001 576 Ø.58 AB32 CA AIR FEE DSL 576, 0.0017 D. 98 ENVIRONMENT FEE/FUELS 576. 0.01 5.76 SALES TAX PAYABLE 1966. 0.08 8 157.35 \*\*\* DELIVERY NOTES \*\*\* LUKE GOGUTS 401-388-7656 EMAIL INVOICES DAILY! DELIVERY MESSAGE \*\*\* ALL INVOICES PAID WITH CREDIT/DEBIT CARD WILL BE SUBJECT TO A 2.5% SERVICE FEE VISIT US AT www.kennystrickland.com PRODUCT ALL APPLICABLE GAS SALES AND DIESEL FUEL TAX BEFORE TAXES ARE SHOWN See Above AS SEPARATE LINE AFTER ITEMS, TOTAL CHARGE \_ CASH CASH CHECK SALE [ CREDIT CARD AMOUNT AMOUNT 2129.93 PAST DUE AFTER
If account unpaid within time permitted, customer agrees to pay interest due a fundament of the an attorney for collection. The undersigned hereby states that he is authorized to bind the Number of Drums Returned X \$ EMERGENCY CONTACT: CHEMTREC 1-800-424-9300 principal to the terms hereof.

ERRORS IN PRICE, EXTENSION AND ADDITION SUBJECT TO CORRECTION. ADJUSTED TOTAL 2129, 93

ABOVE GROUND UNDER GROUND CERTIFIED DELIVERED BY (SIGNATURE IN FULL TANK OO

RECEIVED IN GOOD ORDER





FED ID# 95-3627683 PLEASE REMIT PAYMENT TO THE OFFICE CHECKED BELOW:

 □ KENNY STRICKLAND, INC. ☐ KENNY STRICKLAND, INC. HEMET OIL COMPANY, EXENNY STRICKLAND, INC.

P.O. BOX 998, COACHELLA, CA 92236 P.O. BOX 943, IMPERIAL, CA 92251 P.O. BOX 766, HEMET, CA 92546 270 W LINCOLN, BANNING, CA 92220

OFFICE: 760-398-2031 FAX: 760-398-1921 OFFICE: 760-355-0332 FAX: 760-355-0338 OFFICE: 951-658-5180 FAX: 951-658-7068 OFFICE: 951-922-8882 FAX: 951-922-8896

ORDER NUMBER ACCOUNT NUMBER: 50289

SHIP TO: 00000001

DATE

3134566 03/20/14

PG 1 of 1

SOLD TO: GENESIS SOLAR LLC

C/O NEXTERA ENERGY RESOURCES

P.O. BOX 88808

TUND REACH, EL 33408

11995 WILEY'S WELL ROAD

GENESIS SOLAR LLC

		H, FL 334				BLYTI	HE,	CA 9				
© PUNCHASE ONDERN 200012749		HELEASE		ordeneou Ø1Ø	Y	C MANAGEMENT AND		and the same of th			/Ø4/14	03/20/14
SALESHEZ, Wide	UNF	PRETENTD	7.65	vek njijkisen 99		OARRIER			/a_antoni	ŒR	า ราบเราน่า 	TIME OUT
NO. OF BULK OR PKG'S PKG. SIZE		PRODU	OT DELIVE	RED RED		ORDERED	DELIVI	ERED	FED STATE		PAICE	TRUOMA
BULK	FED C FED L AB32 ENVI *ALE LUKE EMAIL ***	ELIVERY GOGUTS 4 INVOICE DELIVERY NVOICES BE SUBJE	DSL FEE D FEE/ YABL NOTE 01-3 S DA MES PAID	ULS DSL SL FUELS ,\\ E S *** 88-7656	EDIT. SER	/DEBIT VICE FE	CARI	387. 387. 387. 387. 387.			3.25 0.001 0.001 0.01 0.08	0.39
BEFORE						· · · · · · · · · · · · · · · · · · ·	AND T	DIESEL ARE S	LE GAS FUEL SHOWN		SALES TAX	See Above
AFTER CHARG		CASH		снеск	·	CREDIT	ITEMS		E LINE		TOTAL	1364.16
SALE SALE  AST DUE AFTER		IOUNT I account unbaid to a storney's ed hereby states the	Within time Tees if acr	AMOUNT  permitted, customer count is referred to thorized to bind the		ber of D	rums			<u> </u>	X \$ 0-424-9300	< >
n attorney for collection. Incipal to the terms here								- W 1 1 4				and the second second



FED ID# 95-3627683

PLEASE REMIT PAYMENT TO THE OFFICE CHECKED BELOW:

KENNY STRICKLAND, INC. ☐ KENNY STRICKLAND, INC. ☐ HEMET OIL COMPANY, XXENNY STRICKLAND, INC.

P.O. BOX 998, COACHELLA, CA 92236 P.O. BOX 943, IMPERIAL, CA 92251 P.O. BOX 766, HEMET, CA 92546 270 W LINCOLN, BANNING, CA 92220

OFFICE: 760-398-2031 FAX: 760-398-1921 OFFICE: 760-355-0332 FAX: 760-355-0338 OFFICE: 951-658-5180 FAX: 951-658-7068 OFFICE: 951-922-8882 FAX: 951-922-8896

ACCOUNT NUMBER: 50289

NOWERE

SHIP TO: ผลผลผล

DATE

2131377 02/25/14

GENESIS SOLAR LLC

C/O NEXTERA ENERGY RESOURCES

P.O. BOX 88808

SOLD TO:

GENESIS SOLAR LLC

PG 1 of 1

11995 WILEY'S WELL ROAD JUNO BEACH, FL 33408 BLYTHE, CA 92225 PURCHASE ORDER NUMBER RELEASE ORDERED BY DUE DATE DELIVERY DATE 2000127491 010 NET DUE 15 DAY 03/12/14 Ø2/25/14 SALES REP DAIVER TRUCK NUMBER CARRIER BALRUMBER TIME IN TIME OUT 022 UNASSIGNED 99 NO. OF **BULK OR** TAXES PRODUCT DELIVERED ORDERED DELIVERED PRICE PKG'S PKG. SIZE **AMOUNT** FED STATE MISC. BULK 000143 PREM/DYED ULS DSL 603 603 3.41 2056.23 FED DIL SPILL DSL 603 Ø. ØØ191 1.15 FED LUST TAX 603 0.001 0.60 AB32 CA AIR FEE DSL 0.0017 603 1.03 ENVIRONMENT FEE/FUELS 603 603 0.01 6.03 SALES TAX PAYABLE 2059 0.08 164.72 \*\*\* DELIVERY NOTES \*\*\* LUKE GOGUTS 401-388-7656 EMAIL INVOICES DAILY!

		L INVO	CES PAI	TO A 2.5	RE	EDIT/DEBIT					
	 	<b>311 US</b>	AT WWW.	Keililystr	16	ekland.com	THE PROPERTY OF THE PROPERTY O			e propagation in the second	
										or well and a control of the control	
PRODUCT BEFORE							AND D	PLICABLE GAS IESEL FUEL ARE SHOWN PARATE LINE	SALES TAX	See	Above
CASH C	CHARGE	CASH AMOUNT		CHECK AMOUNT		CREDIT	ITEMS.	ARATE LINE	TOTAL	22	29.76
agrees to pay interest are two rects Always and attorney's lees it account is relented to 1					Number of D	X \$ 1-800-424-9300	<	>			
ERRORS IN P		***********		TO CORRECTION			STEL	TOTAL	D ORDER	22	29.76
	01 TANK	INVO	ICE X	D BY (SIGNATURE IN FO				X			



FED ID# 95-3627683 PLEASE REMIT PAYMENT TO THE OFFICE CHECKED BELOW:

☐ KENNY STRICKLAND, INC.
☐ KENNY STRICKLAND, INC.
☐ HEMET OIL COMPANY,
KENNY STRICKLAND, INC.
X X

P.O. BOX 998, COACHELLA, CA 92236 P.O. BOX 943, IMPERIAL, CA 92251 P.O. BOX 766, HEMET, CA 92546 270 W LINCOLN, BANNING, CA 92220

OFFICE: 760-398-2031 FAX: 760-398-1921 OFFICE: 760-355-0332 FAX: 760-355-0338 OFFICE: 951-658-5180 FAX: 951-658-7068 OFFICE: 951-922-8882 FAX: 951-922-8896

ACCOUNT NUMBER:

INWOSE E

SOLD TO: SHIP TO:

50289

0000001

10158155 DATE 10/23/14

GENESIS SOLAR LLC C/O NEXTERA ENERGY RESOURCES GENESIS SOLAR LLC

PG i of 1

P.O. BOX ABAMA

11995 WILEY'S WELL ROOM

PURCH		WEUCH.	FL (Per	作自8	ORDERED B			misDA 98				BELIVERY DATE
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022	essenis:	MIKE	in the state of the		59		Cantilled		, - 1101/1101	A CONTRACTOR OF THE PARTY OF TH	Time IV	Mar out
NO. OF PKG'S	BULK OR PKG. SIZE	113.136		ODUCT DELI		1.	ORDERED	DELIVERED	TAXES		PRICE	AMOUNT
I	OULK	CA EXC FED EX FED OI FED LU AB32 C Ø1 ENV SALES *** D ALL IN	ISE TA CISE TO L SPILO ST TAX A AIR O IRONMED TAX PO ELIVER VOICES	X-DSL AX-DSL L DSL FEE DS NT FEE AYABLE Y MESS PAID	SL E/FUELS E BAGE *** WITH CRED	3 <b>0</b> \TI		59. 59. 59. 59. 59. 191.			2.99 0.11 0.243 0.00191 0.001 0.0017 0.01	176.41 6.49 14.34 Ø.11 Ø.06 Ø.10 Ø.59 18.62
					J A 2.5% S ennystrick					V		
PRODUC				THE WAY		111		ALL APPLICAB AND DIESEL TAXES ARE S	FUEL		SALES	
AFTER								AS SEPARAT				See Above
CASH C	CHAR SAL		CASH MOUNT		CHECK AMOUNT		CREDIT C				TOTAL	
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SOLD TO:

GENESIS SOLAR LLC

C/O NEXTERA ENERGY RESOURCES

P.O. BOX 88808

JUND BEACH, FL 33408

11995 WILEY'S WELL ROAD

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BLYTHE, CA 92225

GENESIS SOLAR LLC

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SOLD TO:

GENESIS SOLAR LLC C/O NEXTERA ENERGY RESOURCES

P.O. BOX 88808

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DELIVERED BY (SIGNATURE IN FULL)

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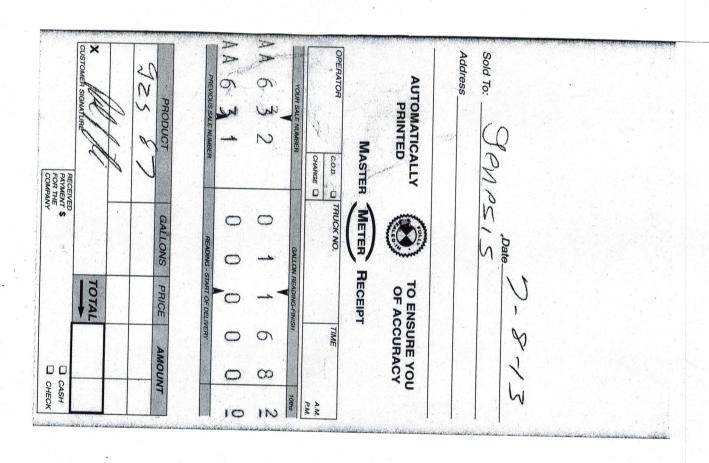
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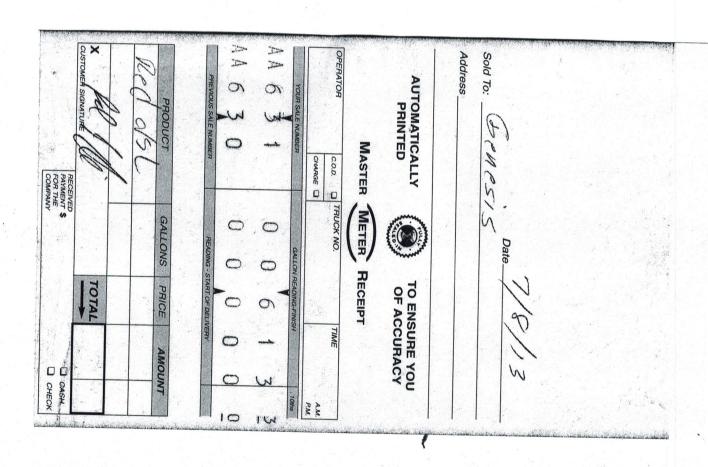
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# **AQSC-6 - Vehicle**

# **Equipment AQSC 6 - Genesis Vehicle and Equipment List**

# **Verification:**

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. The plan shall be updated every other year and submitted in the annual compliance report.

See response below.

# AQ-SC-6 Genesis Vehicle and Equipment List

		-	- Manufacturer's VIN/SERIAL	Plant
Quantity	Description	Detailed Description	NUMBER	VIN
Quantity			NOWBER	VIIV
	Ford F-150 4X4 Crew	0.4.4.1.1		2011
1	Cab Short Bed	GM Vehicle	1FTFW1EFSCKD69232	PGM
	2013 Ford F-150 4WD			
1	SuperCrew 145" XL	PM Vehicle		PM
	(W1E)		1FTFW1EF4DKF10955	
	2013 Ford F-150 2WD			
1	SuperCres 145" XL	Admin		VAD-1
	(W1C)		1FTEW1CM6DKF10954 1FTMF1CMXDKF05400	VDL 4
3	2013 Ford F-150 2WD	PA / Ops Spec / Maint Spec /	1FTMF1CMADKF05400	VPL-1 VPL-2
	Reg Cab 126" XL (F1C)	Env	1FTMF1CM7DKF05404	VPL-3
				VPB-1
	2013 Ford F-150 2WD		1FTMF1CM7DKF05399	VPB-2
4	Reg Cab 126" XL (F1C)	Production Team - Power Block	1FTMF1CM3DKF05402	VPB-3
			1FTMF1CM5DKF05398	VPB-4
	2012 Foul 5 150 2015	Duradostian tax or Colores III	1FTMF1CM5DKF05403	VSF-1
3	2013 Ford F-150 2WD	Production team - Solar Field	1FTMF1CM9DKF05405	VSF-2
	Reg Cab 126" XL (F1C)	Patrol & Maintenance	1FTMF1CM1DKF05396	VSF-3
	2013 Ford super Duty F-			
1	350 DRW 2WD Reg Cab	Production Team - Equiment		VSRV-1
1	141" WB 60" CA XL	Service		VOICV
	(F3G) w/Compressor			
	2013 Ford Super Duty F-	Production Team - Plant	1FDBF2A66DEB58109	VSRV-2
3	250 SRW 2WD Reg Cab	Maintenance	1FDBF2ADEB58107	VSRV-3 VSRV-4
	137" XL (F2A) 2013 Ford super Duty F-			V3KV-4
	350 DRW 2WD Reg Cab	Production Team - Plant		VW-1
2	141" WB 60" CA XL	Welding & Maintenance		VW-2
	(F3G) w/Welder	Welding & Maintenance		*** =
	2013 Ford Super Duty F-			
_	450 DRW 2WD Reg Cab			VODV 5
1	165" WB 84" CA XL	Service Truck		VSRV-5
	(F4G)			
	2042 070000 024 0			
] _	2013 CT660S SBA 6x4	Daluari Trad		MWT-1
2	(CF7AA) 4500 Gallon	Deluge Truck		MWT-2
	Water Deluge Trucks			ET-1
2	HTF Evacuation Trucks		2NP2HJ7X8EM224954	ET-2
	Backhoe Caterpillar 420F			
	Extendable Boom Four			
1	Wheel Drive			
1	-Angle Broom	Under ground repair		
	-Pickup Broom			
	-Pin Grabber Coupler			
	-Ditch Cleaning Bucket CAT Model: 259B3			
1		Grade repair		
	Compact Track Loader		1	

# BIO 18 - Burrowing Owl Impact Avoidance, Minimization, AND COMPENSATION Measures

**Verification**: If pre-construction surveys detect burrowing owls within 500 feet of proposed construction activities, the Designated Biologist shall provide to the CPM, BLM, CDFG and USFWS documentation indicating that non-disturbance buffer fencing has been installed at least 10 days prior to the start of any construction-related ground disturbance activities. The Project owner shall report monthly to the CPM, CDFG, BLM and USFWS for the duration of construction on the implementation of burrowing owl avoidance and minimization measures.

Within 30 days after completion of construction the Project owner shall provide to the CPM, BLM, CDFG and USFWS a written construction termination report identifying how mitigation measures described in the plan have been completed. If pre-construction surveys detect burrowing owls within the Project Disturbance Area, the Project owner shall notifiy the CPM, BLM, CDFG and USFWS no less than 10 days of completing the surveys that a relocation of owls is necessary. The Project owner shall do all of the following if relocation of one or more burrowing owls is required:

- a. Within 30 days of completion of the burrowing owl pre-construction surveys, submit to the CPM, CDFG and USFWS a Burrowing Owl Relocation and Mitigation Plan.
- b. No less than 90 days prior to acquisition of the burrowing owl compensation lands, the Project owner, or an approved third party, shall submit a formal acquisition proposal to the CPM, CDFG, and USFWS describing the 39-acre parcel intended for purchase. At the same time the Project owner shall submit a PAR or PAR-like analysis for the parcels for review and approval by the CPM, CDFG and USFWS.

The Project owner shall implement the following measures to avoid, minimize and offset impacts to burrowing owls:

- 1. Pre-Construction Surveys. The Designated Biologist or Biological Monitor shall conduct pre-construction surveys for burrowing owls no more than 30 days prior to initiation of construction activities. Surveys shall be focused exclusively on detecting burrowing owls, and shall be conducted from two hours before sunset to one hour after or from one hour before to two hours after sunrise. The survey area shall include the Project Disturbance Area and surrounding 500 foot survey buffer.
- 2. Implement Avoidance Measures. If an active burrowing owl burrow is detected within 500 feet from the Project Disturbance Area the following avoidance and minimization measures shall be implemented:
- a. Establish Non-Disturbance Buffer. Fencing shall be installed at a 250-foot radius from the occupied burrow to create a non-disturbance buffer around the burrow. The non-disturbance buffer and fence line may be reduced to 160 feet if all Project-related activities that might disturb burrowing owls would be conducted during the non-breeding season (September 1st through January 31st). Signs shall be posted in English and Spanish at the fence line indicating no entry or disturbance is permitted within the fenced buffer.

b. Monitoring: If construction activities would occur within 500 feet of the occupied burrow during the nesting season (February 1 – August 31st) the Designated Biologist or

Biological Monitor shall monitor to determine if these activities have potential to adversely affect nesting efforts, and shall implement measures to minimize or avoid such disturbance.

- 3. Passive Relocation of Burrowing Owls. If pre-construction surveys indicate the presence of burrowing owls within the Project Disturbance Area (the Project Disturbance Area means all lands disturbed in the construction and operation of the Genesis Project), the Project owner shall prepare and implement a Burrowing Owl Relocation and Mitigation Plan, in addition to the avoidance measures described above. The final Burrowing Owl Relocation and Mitigation Plan shall be approved by the CPM, in consultation with USFWS, BLM and CDFG, and shall:
- a. Identify and describe suitable relocation sites within 1 mile of the Project Disturbance Area, and describe measures to ensure that burrow installation or improvements would not affect sensitive species habitat or existing burrowing owl colonies in the relocation area;
- b. Passive relocation sites shall be in areas of suitable habitat for burrowing owl nesting, and be characterized by minimal human disturbance and access. Relative cover of non-native plants within the proposed relocation sites shall not exceed the relative cover of non-native plants in the adjacent habitats;
- c. Provide detailed methods and guidance for passive relocation of burrowing owls occurring within the Project

Disturbance Area; and

- d. Prepare a monitoring and management of the relocated burrowing owl s site, and provide a reporting plan. The objective of the plan shall be to manage the relocation area for the benefit of burrowing owls, with the specific goals of:
- i. maintaining the functionality of the burrows for two years
- ii. Minimizing the occurrence of weeds (species considered "moderate" or "high" threat to California wild lands as defined by CAL-IPC [2006] and noxious weeds rated "A" or "B" by the California Department of Food and

Agriculture and any federal-rated pest plants [CDFA 2009]) at less than 10 percent cover of the shrub and herb layers.

4. Acquire Compensatory Mitigation Lands for Burrowing Owls.

The following measures for compensatory mitigation shall apply only if burrowing owls that are detected within the Project Disturbance Area. The Project owner shall acquire, in fee or in easement, 19.5 acres of land for each burrowing owl that is displaced by construction of the Project. Staff anticipates displacement of two owls for a total of 39 acres of compensatory mitigation land. This compensation acreage of 19.5 acres per single bird or pair of nesting owls assumes that there is no evidence that the compensation lands are occupied by burrowing owls. If burrowing owls are observed to occupy the compensation lands, then only 9.75 acres per single bird or pair is required, per CDFG (1995) guidelines. If the compensation lands are contiguous to currently occupied habitat, then the replacement ratio will be 13.0 acres per pair or single bird. All measures below that are based on a compensation lands total of 39 acres would be revised accordingly. Thirty-nine acres will be used as a placeholder for security.

The Project owner shall provide funding for the enhancement and long-term management of these compensation lands. The acquisition and management of the compensation lands may be delegated by written agreement to CDFG or to a third party, such as a non-governmental organization dedicated to habitat conservation, subject to approval by the CPM, in consultation with CDFG and USFWS prior to land acquisition or management activities. Additional funds shall be based on the adjusted market value of compensation lands at the time of construction to acquire and manage habitat. In lieu of acquiring lands itself, the Project owner may satisfy the requirements of this condition by depositing funds into the Renewable Energy Action Team (REAT) Account established with the National Fish and Wildlife Foundation (NFWF), as described in Section 3.i., of Condition of Certification BIO-12.

a. Criteria for Burrowing Owl Mitigation Lands. The terms and conditions of this acquisition or easement shall be as described in Paragraph 1 of BIO-12 [Desert Tortoise Compensatory Mitigation], with the additional criteria to include: 1) the 39 acres of mitigation land must provide suitable habitat for burrowing owls, and 2) the acquisition lands must either currently support burrowing owls or be within dispersal distance from areas occupied by burrowing owls (generally approximately 5 miles). The 39 acres of burrowing owl mitigation lands may be included with the desert tortoise mitigation lands ONLY if these two burrowing owl criteria are met. If the 39 acre of burrowing owl mitigation land is separate from the acquisition required for desert tortoise compensation lands, the Project owner shall fulfill the requirements described below in this condition.

b. Security. The Security measures described below is based on the assumption that two owls would be impacted by construction of the Project, and would therefore require 39 acres of compensatory mitigation land. If the 39 acres of burrowing owl mitigation land is separate from the acreage required for desert tortoise compensation lands the Project owner or an approved third party shall complete acquisition of the proposed compensation lands prior to initiating ground-disturbing Project activities. Alternatively, financial assurance can be provided by the Project owner to the CPM with copies of the document(s) to CDFG, BLM and the USFWS, to guarantee that an adequate level of funding is available to implement the mitigation measure described in this condition. These funds shall be used solely for implementation of the measures associated with the Project. Financial assurance can be provided to the CPM in the form of an irrevocable letter of credit, a pledged savings account or another form of security ("Security") prior to initiating ground-disturbing Project activities. Prior to submittal to the CPM, the Security shall be approved by the CPM, in consultation with CDFG, BLM and the USFWS to ensure funding. As of the publication of the RSA, this amount is \$120,432 but this amount may change based on land costs or the estimated costs of enhancement and endowment (see subsection C.2.4.2, Desert Tortoise, for a discussion of the assumptions used in calculating the Security, which are based on the most current guidance from the REAT agencies (Desert Renewable Energy REAT Biological Resource Compensation/Mitigation Cost Estimate Breakdown for use with the REAT-NFWF Mitigation Account, July 23, 2010) This estimate may be revised with updated information from the REAT

agencies.

- c. Within 90 days of the land or easement purchase, as determined by the date on the title, the Project owner shall provide the CPM with a management plan for review and approval, in consultation with CDFG, BLM and USFWS, for the compensation lands and associated funds.
- d. No later than 30 days prior to the start of construction-related ground disturbing activities, the Project owner shall provide written verification of Security in accordance with this condition of certification.
- e. No later than 18 months after the start of construction-related ground disturbance activities, the Project owner shall provide written verification to the CPM, BLM, CDFG and USFWS that the compensation lands or conservation easements have been acquired and recorded in favor of the approved recipient.
- f. On January 31st of each year following construction for a period of five years, the Designated Biologist shall provide a report to the CPM, USFWS, BLM and CDFG that describes the results of monitoring and management of the burrowing owl relocation area. The annual report shall provide an assessment of the status of the relocation area with respect to burrow function and weed infestation, and shall include recommendations for actions the following year for maintaining the burrows as functional burrowing owl nesting sites and minimizing the occurrence of weeds.

# Response:

Genesis Solar LLC had no requirements to relocate or mitigate burrowing owls. Please see attached document.

# Burrowing Owl Relocation and Mitigation Plan

# Genesis Solar Energy Project Eastern Riverside County, California

### Prepared By:



Tetra Tech EC, Inc. 143 Union Blvd., Suite 1010 Lakewood, CO 80228

Prepared For:

Genesis Solar, LLC

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### Attachment

Attachment A Example of Artificial Burrow Design

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## **Abbreviations and Acronyms**

BLM Bureau of Land Management

BRMIMP Biological Resources Mitigation and Implementation Monitoring Plan

CBOC California Burrowing Owl Consortium
CDFG California Department of Fish and Game
CEC California Energy Commission

CPM Compliance Project Manager
DB Designated Biologist
Genesis Solar Genesis Solar, LLC

Plan Burrowing Owl Relocation and Mitigation Plan

Project Genesis Solar Energy Project
USFWS U.S. Fish and Wildlife Service



#### 1.0 Introduction

Genesis Solar, LLC (Genesis Solar) a wholly owned subsidiary of NextEra Energy Resources, LLC, is proposing to develop a 250-megawatt solar thermal power generating facility located in Riverside County, CA, between the community of Desert Center and the city of Blythe. The Genesis Solar Energy Project (Project) is located on land managed by the Bureau of Land Management (BLM). The Project Disturbance Area, which includes both permanent and temporary disturbance, will be approximately 1,819.5 acres, and includes approximately 1,727 acres for the Plant Site and approximately 92.5 acres for the Linear Facilities. The Plant Site includes the solar arrays, power blocks, power generating equipment, support facilities, and evaporation ponds. The Linear Facilities include a transmission line, distribution line, natural gas pipeline, and a main access road that would be mostly co-located for approximately 6.5 miles (Figure 1).

Comprehensive biological resource surveys were conducted in 2009 and 2010, and biologists identified the entire Project Area and vicinity as potential habitat for the western burrowing owl (Athene cunicularia). Therefore, it is possible that Project development would affect burrowing owls and a plan is required to address and minimize any impacts if they cannot be avoided. Thus, this Burrowing Owl Relocation and Mitigation Plan (Plan) was developed, which provides methods for passive relocation of burrowing owls and guidance for management of relocation areas if burrowing owls are found to occupy the Project Disturbance Area during preconstruction surveys.

#### 1.1 Purpose and Objectives

The primary purpose of this Plan is to identify and manage suitable sites for relocated burrowing owls as well as provide a monitoring and management plan for the relocation site, as required by the California Energy Commission (CEC) Condition of Certification BIO-18. This Plan also describes the methodology for passive relocation of burrowing owl from the Project Area.

Specific Plan objectives include:

- Identify and describe suitable relocation sites within 1 mi of the Project Disturbance Area.
- Provide guidelines for enhancement or creation of at least two natural or artificial burrows per relocated owl, including a discussion of timing of burrow improvements, specific location of burrow installation, and burrow design.
- Provide detailed methods and guidance for passive relocation of burrowing owls occurring within the Project Disturbance Area to a location outside of the Project Disturbance Area.
- Provide methods for monitoring and maintaining the relocation sites, including a reporting plan, to ensure the relocation area remains a benefit for relocated burrowing owls for two years.



Figure 1. Facility Layout

#### 2.0 Background

#### 2.1 2009 and 2010 Burrowing Owl Survey Results

Biologists conducted burrowing owl surveys of the Project Area and vicinity according to California Burrowing Owl Consortium (CBOC) Guidelines (CBOC 1993) in Winter 2007, Spring 2009, and Winter 2009 (Tetra Tech and Karl 2009, 2010a). The survey area encompassed 4,640 acres, plus Linear Facilities and buffer surveys out to one mile. During these surveys, biologists observed burrowing owl sign (burrows, whitewash, feathers, and pellets) at several locations throughout the survey area. One burrowing owl was observed within the Project Area during a site reconnaissance survey in December 2007. During the Spring 2009 biological field surveys, biologists observed two burrowing owls and burrowing owl sign at several locations throughout the survey area. One occupied burrow was observed during the Winter 2009 surveys. Biologists did not find any actively nesting burrowing owls during surveys (Figure 2). The results show that burrowing owls may occur anywhere within the Project Disturbance Area.

### 3.0 Preconstruction Surveys

Pre-construction surveys will commence within 30 days of the start of surface disturbance to \_\_\_\_ Deleted: 6 determine if burrowing owls are in the Project Disturbance Area or within 500 feet of the Project Disturbance Area (see Biological Resources Mitigation and Implementation Monitoring Plan [BRMIMP] for survey methods). This will allow enough time to document burrow use within the Project Disturbance Area as well as allow construction of new burrows to occur early enough for owls to become acclimated to the new artificial burrows prior to passive relocation (see Section 4.0). Within 10 days of completing the pre-construction surveys Genesis Solar will notify the Construction Compliance Project Manager for the CEC (CPM), BLM, California Department of Fish and Game (CDFG), and U.S. Fish and Wildlife Service (USFWS) if owl relocation is necessary.

If an active burrowing owl nest is detected within the Project Disturbance Area or 500-foot survey buffer area, a minimum 250 foot buffer will be established around the active nest until the Designated Biologist (DB) can verify that the young have fledged and are capable of independent survival. In order to determine which burrows owls are using as well as which burrows could be impacted by the Project, all owls that are found during preconstruction surveys will be observed for two to three weeks (Trulio 1995). At least 10 days prior to the start of any construction-related ground disturbance activities that take place near the nest, the DB will provide the CPM, BLM, CDFG and USFWS documentation indicating that non-disturbance buffer fencing has been installed.

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Figure 2. 2009 and 2010 Burrowing Owl Observations

#### 4.0 Passive Burrowing Owl Relocation

In the event that burrowing owls are located within the Project Disturbance Area during preconstruction surveys, avoidance and/or passive relocation of owls is required. Avoidance will follow CDFG guidelines, which state that occupied burrows should not be disturbed during the nesting season (February 1 through August 31). However, burrowing owls may be relocated during the nesting season if the Project's DB, or another qualified biologist approved by CDFG, 1) verifies that the birds have not begun egg-laying and incubation, or 2) verifies that juveniles from the occupied burrows are foraging independently and are capable of independent survival (CDFG 1995). In either of these cases, approval by the CDFG and the BLM would be required prior to relocation.

#### 4.1 Identification of Relocation Sites

Based on the 2009 and 2010 survey results (see Section 2.1), there are ample areas suitable for relocation within one mile of the Project Disturbance Area. The DB or a qualified biologist1 will choose the burrowing owl relocation sites based on the following criteria:

- To the extent possible, be within 300 ft of the original burrow (Trulio 1995) but no closer 250 feet from Project construction activity or existing disturbances (e.g., Interstate-10) that could affect burrowing owl behavior. No relocation site will be farther than 1 mi from the original burrow.
- · Have similar habitat (vegetation diversity, percent cover, soils) to the original burrow site.
- Not have a weed<sup>2</sup> density greater than the area around the burrow.
- Not be placed in sensitive habitat or where other sensitive species or existing burrowing owls are adversely affected (see Section 3.2).
- Be located >330 ft from other active burrowing owls based on nearest neighbor distance - Formatted: Space After: 3 pt between nests in California (Catlin and Rosenburg 2008).
- Not be placed in an area containing sensitive cultural resources. If the relocation site is outside of the area previously surveyed for cultural resources, a cultural resources monitor will be present to ensure avoidance of sensitive cultural resources.

# 4.1.1 Artificial Burrow Installation and Burrow Enhancement

Successful burrowing owl relocation largely depends on establishing and maintaining several healthy burrows per relocated owl for use as nesting, escape, roosting, and satellite burrows. Therefore, for each relocated owl, Genesis Solar will install two artificial burrows, or enhance existing burrows, in locations chosen using the criteria in Section 4.1, above. Burrow enhancement of existing, natural burrows or installation of artificial burrows will occur prior to any passive relocation of owls and prior to any ground-disturbing activity.

Design of the artificial burrows shall be consistent with CDFG guidelines (CDFG 1995) and shall be approved by the CPM in consultation with CDFG, BLM, and USFWS. A general design schematic for an artificial burrow is provided as Attachment A (taken from CDFG 1995), but

January 2011 

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<sup>&</sup>lt;sup>1</sup> A qualified biologist includes someone familiar with burrowing owl habitat and behavior.
<sup>2</sup> Defined as any species considered "moderate" or "high" threat to California wild lands as defined by California Invasive Plant Council (2008) and noxious weeds rated "A" or "B" by the California Department of Food and Agriculture (2009) and any federal-rated pest plants

other suitable designs may be considered if approved by the CDFG, BLM, and USFWS (e.g., Trulio 1995, Albion no date). Natural burrows that are enhanced will be cleared of debris and weeds during the non-breeding season using hand tools or other manual methods; no mechanical or chemical treatments will be used.

The following measures will be implemented to ensure there are no impacts to sensitive plants, wildlife, and their habitats near the relocation site due to burrow restoration or construction:

- The DB or qualified biologist will survey the relocation sites to verify that the proposed relocation burrow will not affect existing desert tortoise, kit fox, badgers, or other burrowing owl burrows.
- All materials and equipment used to construct artificial burrows will be carried to the relocation site on foot, and will be installed using hand tools.

#### 4.2 Passive Relocation Methods

The passive relocation methods outlined in this section closely follow those described by CDFG (1995). As discussed above, if an owl is determined to occupy a burrow within the Project Disturbance Area, the owl will be monitored by the DB or qualified biologist for two to three weeks to verify which burrows it is using and if it is nesting. To the extent feasible, monitoring will be performed between two hours before sunset to two hours following sunset, or one hour before sunrise to two hours after sunrise, corresponding with the time when owls are most active. Nesting owls will be avoided as discussed in Section 4.0, above. For non-nesting owls, the owls will be given sufficient time following the construction of new burrows (ideally two weeks) to become familiar with the new burrows. At this time, the burrows currently in use and the new burrows will simultaneously be available for the owl to use. Approximately one week prior to Project-related ground disturbance (i.e., vegetation clearance and/or grading), one way doors will be placed in the burrow(s) located in the Project Disturbance Area to facilitate relocation to the new burrows by preventing re-entry. The one-way doors will be left in place for three to four days, and monitored to ensure the burrow(s) is (are) no longer in use. Once the burrow(s) is (are) confirmed vacant, they will be carefully excavated and filled-in using hand tools, in order to prevent reoccupation. Sections of flexible plastic pipe shall be inserted into the tunnels during excavation to maintain an escape route for any animals that could be located inside the burrow. Construction site work will occur as soon as possible following passive relocation and burrow collapse, in order to discourage the owls from re-occupying burrows in the Project Disturbance Area.

#### 4.3 Monitoring and Management of the Relocation Site

#### 4.3.1 Post-Relocation Monitoring of Owls

Post-relocation monitoring will take place for a minimum of two years from when owls are relocated to determine if burrowing owls are using the constructed burrows. Monitoring will be conducted by the DB or a qualified biologist, and will include one spring (between February and May), one summer (between June and September), and one winter (December or January) survey of the relocation site. Each survey will include at least two visits per season. Surveys will be performed such that 100 percent visual coverage is achieved within 150 ft of the constructed burrow. Surveys will be performed between two hours before sunset to two hours following

sunset, or one hour before sunrise to two hours after sunrise to increase the chances of observing owls.

#### 4.3.2 Post-Relocation Burrow Maintenance

The DB or a qualified biologist will maintain the constructed burrows to ensure that they are functional for two years following construction of the burrow. Maintenance will be conducted quarterly after construction of the burrow, using the monitoring schedule discussed in Section 4.3.1. The burrow will be maintained by clearing the entrance of debris (via hand tools) and ensuring that it can be used for nesting. The relocation site will be maintained so that weeds comprise less than 10 percent cover of the shrub and herb layers. Maintaining low or sparse vegetation cover and additional cover sites such as rock piles will not only attract owls to the relocation area, but could also host burrowers such as ground squirrels that would maintain a natural burrow density in the relocation area.

#### 4.4 Reporting

Reports are required to evaluate the results of monitoring, to determine if success standards are being met, and what control measures should be implemented if standards are not being met. Reporting of burrowing owl avoidance measures will occur in the Monthly Compliance Reports for the duration of construction activities. In addition, an annual report will be submitted on 31 January for two years following construction of the burrow(s). The annual reports will be submitted to the CPM, USFWS, BLM, and CDFG, and will include, at a minimum, the following:

- Illustrate the relocation site locations on a figure.
- Describe the results of burrowing owl monitoring at the relocation sites describing use of the burrows during the nesting and/or winter seasons and whether any successful breeding or owl fledging occurred from the artificial burrow(s).
- Describe management actions taken to maintain the status of the relocation site with respect to burrow function and weed infestation.
- After the first year, recommend actions for maintaining the burrows as functional burrowing owl nesting sites, maintaining low vegetation, and minimizing the occurrence of weeds

In addition, within 30 days after completion of construction, a written construction termination report will be provided to the resource agencies identifying how mitigation measures described in this plan have been completed.

### 5.0 Off-Site Mitigation (Compensation)

In the event that burrowing owls are relocated, Genesis Solar, or an approved third party, will acquire off-site compensation lands for burrowing owls. These detailed mitigation requirements can be found in the BRMIMP.

#### 6.0 References

Albion Environmental, Inc. No date. Artificial burrowing owl burrow design. Prepared for the Santa Cruz Predatory Bird Research Group. 2 pp.



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- California Burrowing Owl Consortium (CBOC). 1993. Burrowing owl survey protocols and mitigation guidelines. Available at: http://www.dfg.ca.gov/wildlife/nongame/docs/boconsortium.pdf. 13 pp.
- California Department of Food and Agriculture. 2009. List of noxious weeds. Available at: <a href="http://www.cdfa.ca.gov/phpps/ipc/noxweedinfo/noxweedinfo/hp.htm">http://www.cdfa.ca.gov/phpps/ipc/noxweedinfo/noxweedinfo/hp.htm</a>.
- California Department of Fish and Game (CDFG). 1995. Staff Report on Burrowing Owl Mitigation. October 17. Available at: http://www.dfq.ca.gov/wildlife/nongame/docs/burowlmit.pdf
- Catlin, D. H. and D. K. Rosenburg. 2008. Breeding dispersal and nesting behavior of burrowing owls following experimental nest predation. American Midland Naturalist 159:1-7.
- Trulio, Lynne A. 1995. Passive Relocation: A Method to Preserve Burrowing Owls on Disturbed Sites. *Journal of Field Omithology* 66(11): 99–106.
- Tetra Tech EC, Inc. and A. Karl. 2009. Biological Resource Technical Report; Genesis Solar Energy Project, Riverside County, CA. August.
- Tetra Tech EC, Inc. and A. Karl. 2010. 2009 Winter Avian Point Count and Burrowing OW Surveys Report; Genesis Solar Energy Project, Riverside County, CA. April.

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# **BIO-2 Designated Biologist 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. 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.

# Response:

Designated Biologists is on an on call basis. Reports of Avian and Pond activities are submitted by Genesis Solar.

		Genesis Sol	ar En	ergy	y Pro	ject					
Biological M	onitor (BM) Dai	ly Report					Date	12/3/2014			
		ouds: 80%, Pcp: Trace	_	Atta	Time: chmen ograph	ts:	Sto	op Time:			
		Site	s Moni	itored	ı						
Circle One:	Plant Site	Access Road	Gas L	Gas Line Transmission Line Other (explain)							
Activity Log: Rained previous evening.  Inspect north evap pond. No avian findings. Inspect south evap pond. No avian findings.  Monitor evaporation ponds throughout day. Oil/Water being separated at frac tanks.  Eared grebe landed in north pond at 11:15, a second eared grebe landed in north pond about an hour later. Both birds did not flush. Adjusted mylar tape, sound cannons working.  Birds in pond when I left.  Day total: zero avian mortalities and zero avian injuries observed.											
	Monitor Checklist										
	Gene	ral		Yes	No	N/A	Attach Suppl	Comments lemental Report if needed			
Workspace limi	ts verified and prop	erly marked?				X	N/A				
•	thin approved work	<u> </u>				X	N/A				
Only approved a	access roads utilized	l for ingress and egress?				X	N/A				
Access road sign	ns in place?					X	N/A				
Trash and debris	s contained and disp	posed of in proper manner?				X	N/A				
Topsoil segrega	ted properly?					X	N/A				
Topsoil segrega	tion barriers mainta	ined?				X	N/A				
All crew on site	displaying hard-ha	t decals from WEAP training	ng?			X	N/A				
Speed limit obse	erved by all project	personnel?				X	N/A				
	Biologica	l Issues		Yes	No	N/A	Attach Suppl	Comments lemental Report if needed			
Work area clear	ed by BM prior to o	construction activity beginn	ing?			X	N/A				
		pecies encountered? If so, n dlife incident data form.	ote			X	N/A				
Tortoise exclusi	onary fence and/or	ramps intact?				X	N/A				
Any nesting bird	ds observed? Note s	pecies (if known) and locat	tion.			X	N/A				
Common Raven	s Present? If yes, no	ote number and activity.				X	N/A				
All ESAs and oth	ner bio-related exclu	sion areas marked and avoid	ed?			X	N/A				

**Additional Notes:** 

D' 1 ' 1M	- ' (DM) D 11	Genesis So	olar Ene	ergy	Pro	ject	ъ.	10/0/0014		
Biological M	onitor (BM) Dail	y Report		Date 12/2/2014						
		uds: 90%, Pcp: Trace w Temp (°F):		Attac	Time: chmen ograph	ts:	Sto	op Time:		
		Site	es Monito	ored	1					
Circle One:	Plant Site	Access Road	Gas Lir	ne		Trans	mission Line	Other (explain)		
Activity Log: Inspect north evaporation pond. No avian findings.  Inspect south evaporation pond. No avian findings. Approximately 3 water remains, there is a sheen on top of the water of south pond. Sediments are visible on the north and south edges.  Monitor ponds throughout day.  Day Total: Zero avian mortalities and zero avian injuries.										
Monitor Checklist										
	Gener	al	7	Yes	No	N/A	Attach Suppl	Comments lemental Report if needed		
Workspace limi	ts verified and prope	rly marked?				X	N/A			
All activities wi	thin approved works	pace limits?				X	N/A			
Only approved	access roads utilized	for ingress and egress?				X	N/A			
Access road sig	ns in place?					X	N/A			
Trash and debri	s contained and disp	osed of in proper manner	?			X	N/A			
Topsoil segrega	ited properly?					X	N/A			
Topsoil segrega	tion barriers maintai	ned?				X	N/A			
All crew on site	displaying hard-hat	decals from WEAP train	ing?			X	N/A			
Speed limit obs	erved by all project p	personnel?				X	N/A			
	Biological	Issues	Y	Yes	No	N/A	Attach Suppl	Comments lemental Report if needed		
Work area clear	red by BM prior to co	onstruction activity begin	ning?			X	N/A			
•		ecies encountered? If so, life incident data form.	note			X	N/A			
Tortoise exclusi	ionary fence and/or r	amps intact?				X	N/A			
Any nesting bir	ds observed? Note sp	pecies (if known) and loc	ation.			X	N/A			
Common Raver	ns Present? If yes, no	te number and activity.				X	N/A			
All ESAs and of	her bio-related exclus	ion areas marked and avoi	ded?			X	N/A			

**Additional Notes:** 

09:40-10:00, 11:55-12:10

Biological M	onitor (BM) Dail	<b>Genesis So</b> l y Report	lar E	nergy	y Pro	oject	Date 1	1/25/2014		
Monitor: Eri	c German ions:, Clouds: 0%	, Pcp: None v Temp (°F): -	 _	Atta	t Time chmen	ts:		Time:		
		' <del>-</del>	s Moi	nitore	ď					
Circle One:	Plant Site	Access Road		Line	•	Trans	mission Line	Other (explain)		
Activity Log:	Monitor evaporation Discussed avian act	outh evaporation ponds. Non ponds. One Say's Phoebivity with onsite Agency talities and zero injuries of	oe. Mai person	ntain m nel.		rd repel	lent flagging.			
Monitor Checklist										
	Genera	al		Yes	No	N/A		omments nental Report if needed		
Workspace limi	ts verified and proper	rly marked?				X	N/A	1		
All activities wi	thin approved works	pace limits?				X	N/A			
Only approved a	access roads utilized	for ingress and egress?				X	N/A			
Access road sign	ns in place?					X	N/A			
Trash and debri	s contained and dispo	osed of in proper manner?	,			X	N/A			
Topsoil segrega	ted properly?					X	N/A			
Topsoil segrega	tion barriers maintair	ned?				X	N/A			
All crew on site	displaying hard-hat	decals from WEAP training	ng?			X	N/A			
Speed limit obse	erved by all project p	ersonnel?				X	N/A			
	Biological	Issues		Yes	No	N/A		omments nental Report if needed		
Work area clear	red by BM prior to co	onstruction activity beginn	ning?			X	N/A			
•		cies encountered? If so, r life incident data form.	ıote			X	N/A			
Tortoise exclusi	ionary fence and/or ra	amps intact?				X	N/A			
Any nesting bird	tion.			X	N/A					
Common Raver	ns Present? If yes, not	te number and activity.				X	N/A			
All ESAs and otl	her bio-related exclusi	on areas marked and avoid	ed?			X	N/A			

**Additional Notes:** 

D' 1 ' 134	(D)	Genesis Sol	ar Energ	y Pro	oject	ъ.	11/04/0014			
Biological M	Ionitor (BM) Dai	ly Report				Date	11/24/2014			
	ic German		Star	Start Time: Stop Time:						
		ids: 5%, Pcp: None		Attachments:						
High Temp (°F	): <u>-</u> Lo	w Temp (°F):	Pho	tograpl	hs:					
		Sites	s Monitore	d						
Circle One:	Plant Site	Access Road	Gas Line		Trans	mission Line	Other (explain)			
Inspect north and south evaporation ponds. No avian findings.  Monitor evaporation ponds, one say's phoebe, one small flock of passerines (<10) flew over north pond and continued east. Bird repellent flagging maintained at north pond.  South pond to be cleaned and not used for evaporation until netting replaced. Water being pumped from south pond to north pond. South pond sediment being pushed by small loader.  Day total: zero avian mortalities and zero avian injuries observed.										
Monitor Checklist										
	Gene	ral	Yes	No	N/A		Comments emental Report if needed			
Workspace lim	its verified and prope	erly marked?			X	N/A	*			
All activities w	ithin approved work	space limits?			X	N/A				
Only approved	access roads utilized	I for ingress and egress?			X	N/A				
Access road sig	gns in place?				X	N/A				
Trash and debri	is contained and disp	osed of in proper manner?			X	N/A				
Topsoil segrega	ated properly?				X	N/A				
Topsoil segrega	ation barriers mainta	ined?			X	N/A				
All crew on site	e displaying hard-hat	decals from WEAP training	ng?		X	N/A				
Speed limit obs	erved by all project	personnel?			X	N/A				
	Biological	Issues	Yes	No	N/A		Comments emental Report if needed			
Work area clear	red by BM prior to c	onstruction activity beginn	ing?		X	N/A				
		ecies encountered? If so, nedlife incident data form.	ote		X	N/A				
Tortoise exclusionary fence and/or ramps intact? X N/A										
Any nesting bir	ds observed? Note s	pecies (if known) and locat	tion.		X	N/A				
Common Raver	ns Present? If yes, no	ote number and activity.			X	N/A				
All ESAs and of	har hip related exclus	zion areas marked and avoide	ad?		Y	NI/A				

**Additional Notes:** 

D' 1 ' 114		Genesis S	olar I	Energy	y Pro	oject	ъ.	11/00/0014		
Biological M	Ionitor (BM) Dail	y Report					Date	11/20/2014		
		ds: 15%, Pcp: None w Temp (°F):		Atta	t Times chmen tograph	ts:	Sto	op Time:		
		Si	ites Mo	nitore	d					
Circle One:	Plant Site	Access Road	Gas	s Line		Trans	mission Line	Other (explain)		
Activity Log: Inspect north evap pond. No avian findings. Noted some white cloud in incoming water.  Inspect south evap pond. No avian findings. Adjust bird repellent tape. Monitor ponds throughout remainder of day. Water being piped from south pond to north pond. One say's phoebe and one loggerhead shrike flying and perching in north pond area. Odors coming from south pond east end, unknown source.  Drive portion of perimeter fence. No avian findings.  Day total: zero mortalities, zero injuries observed or recorded.										
Monitor Checklist										
		Yes	No	N/A	Attach Suppl	Comments emental Report if needed				
Workspace limi	its verified and prope	erly marked?				X	N/A			
All activities wi	ithin approved works	space limits?				X	N/A			
Only approved	access roads utilized	for ingress and egress?				X	N/A			
Access road sig	ns in place?					X	N/A			
Trash and debri	s contained and disp	osed of in proper manne	er?			X	N/A			
Topsoil segrega						X	N/A			
Topsoil segrega	tion barriers maintai	ned?				X	N/A			
All crew on site	displaying hard-hat	decals from WEAP tra	ining?			X	N/A			
Speed limit obs	erved by all project p	personnel?				X	N/A			
	Biological	Issues		Yes	No	N/A	Attach Suppl	Comments emental Report if needed		
Work area clear	red by BM prior to co	onstruction activity beg	inning?			X	N/A			
•		ecies encountered? If so llife incident data form.				X	N/A			
Tortoise exclusi	ionary fence and/or r	amps intact?				X	N/A			
Any nesting bir	ds observed? Note sp	pecies (if known) and lo	ocation.			X	N/A			
Common Raver	ns Present? If yes, no	te number and activity.				X	N/A			
All ESAs and of	her bio-related exclus	ion areas marked and av	oided?			X	N/A			

**Additional Notes:** 

Mileage: 80 miles.

		Genesis Sol	ar Energ	v Pr	oiect							
Biological Monit	or (BM) Daily			<b>9</b> 7 – –	-,,	Date 11	/19/2014					
Monitor: Eric Ge	rman		Sta	Start Time: - Stop Time: -								
		Clouds: 25%, Pcp:	_									
Weather Conditions			_	achmer								
High Temp (°F):	Low	Temp (°F):	_   Ph	otograp	hs:							
		Sites	s Monitor	ed								
Circle One:	Plant Site	Access Road	Gas Line		Trans	mission Line	Other (explain)					
Inspect south evaporation pond. No avian findings.  Monitor ponds. Notified of distressed bird beneath equipment between north and south evaporation ponds. Bird not flying and allowed capture, American Coot. Bird did not appear to have been in pond water, no matted feathers and not wet. Discussions with Oiled Wildlife Care Network decision made to bring bird to local Blythe rehab facility.  Bird transported to Blythe facility.  Improved some bird deterrent tape.  One kesytel flushed from pond area.  Day total: no mortalities observed or salvaged, one injured coot transported to Blythe rehab.												
		Mon	itor Checkl	ist								
	General		Yes	No	N/A		mments ental Report if needed					
Workspace limits ve	rified and properl	y marked?			X	N/A						
All activities within	approved workspa	ace limits?			X	N/A						
Only approved acces	ss roads utilized fo	or ingress and egress?			X	N/A						
Access road signs in	place?				X	N/A						
Trash and debris cor	ntained and dispos	sed of in proper manner?			X	N/A						
Topsoil segregated p	properly?				X	N/A						
Topsoil segregation	barriers maintaine	ed?			X	N/A						
All crew on site disp	laying hard-hat d	ecals from WEAP training	ng?		X	N/A						
Speed limit observed	d by all project pe	rsonnel?			X	N/A						
	Biological Is	ssues	Yes	No	N/A		mments ental Report if needed					
Work area cleared b	y BM prior to con	struction activity beginning	ing?		X	N/A	•					
		ries encountered? If so, no fe incident data form.	ote		X	N/A						
Tortoise exclusionar					X	N/A						
	•	-	rion									
			IOII.		_							
		cies (if known) and locate number and activity.	ion.	<u> </u>	X	N/A N/A						

N/A

**Additional Notes:** Mileage: 142 miles

All ESAs and other bio-related exclusion areas marked and avoided?

Genesis Solar	Energy	v Pro	oiect								
Biological Monitor (BM) Daily Report	<i></i>	,	J	Date 11/18/2014							
Monitor: Eric German	Start	t Time:	-	Stop Time: -							
Partly Sunny, Clouds: 30%, Pcp:	l .										
Weather Conditions: None  High Temp (°F): - Low Temp (°F): -		chmen tograph	_								
	•		15.								
Sites Monitored											
Circle One: Plant Site Access Road Ga	as Line		Trans	mission Line Other (explain)							
Activity Log: Met with USFWS LE who took custody of bird carcasses salvaged on site in relation to evaporation ponds to date: 18 carcasses from freezer and 1 salvaged from south evaporation pond.  Inspect south evaporation, located one bird mortality. Carcass salvaged and given to USFWS LE. No other avian findings.  Inspect north evaporation pond. No avian findings.  Monitored north and south evaporation ponds. Improved wind blown bird reppellent tape on south pond. No additional avian findings.  Day Total: One mortality and zero injured birds observed and recorded.											
Monitor Checklist											
General	Yes	No	N/A	Comments Attach Supplemental Report if needed							
Workspace limits verified and properly marked?			X	N/A							
All activities within approved workspace limits?			X	N/A							
Only approved access roads utilized for ingress and egress?			X	N/A							
Access road signs in place?			X	N/A							
Trash and debris contained and disposed of in proper manner?			X	N/A							
Topsoil segregated properly?			X	N/A							
Topsoil segregation barriers maintained?			X	N/A							
All crew on site displaying hard-hat decals from WEAP training?			X	N/A							
Speed limit observed by all project personnel?			X	N/A							
Biological Issues	Yes	No	N/A	Comments Attach Supplemental Report if needed							
Work area cleared by BM prior to construction activity beginning?			X	N/A							
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.			X	N/A							
Tortoise exclusionary fence and/or ramps intact?			X	N/A							
Any nesting birds observed? Note species (if known) and location.			X	N/A							
Common Ravens Present? If yes, note number and activity.			X	N/A							

N/A

**Additional Notes:** N/A

All ESAs and other bio-related exclusion areas marked and avoided?

D' 1 ' 134	(D)	Genesis Sol	lar Er	nergy	y Pro	ject	ъ.	11/17/2014			
Biological M	onitor (BM) Dail	y Report					Date	11/17/2014			
Monitor: <u>Eri</u> Weather Condit High Temp (°F)	tions: Windy, Clou	ds: 0%, Pcp: None v Temp (°F):	_	Atta	Time: chmen ograph	ts:	Sto	op Time:			
		Site	s Mon	itored	ı						
Circle One:	Plant Site	Access Road	Gas I	Line		Trans	mission Line	Other (explain)			
Activity Log: Inspect north evap pond. No avian findings.  Inspect south pond. One ruddy duck mortality and one unknown bird carcass recovered as revealed in pond bottom sludge. Both birds salvaged, logged, and placed in onsite freezer. USFWS LE informed of recovered bird mortalities. Ponds monitored remainder of day. No new avian findings.  Two mortalities salvaged from south pond (see above). Zero injured birds observed/recovered.											
	Monitor Checklist										
General					No	N/A	Attach Suppl	Comments lemental Report if needed			
Workspace limi	ts verified and prope	rly marked?				X	N/A				
All activities wi	thin approved works	pace limits?				X	N/A				
Only approved	access roads utilized	for ingress and egress?				X	N/A				
Access road sig	ns in place?					X	N/A				
Trash and debri	s contained and disp	osed of in proper manner?				X	N/A				
Topsoil segrega	ited properly?					X	N/A				
Topsoil segrega	tion barriers maintai	ned?				X	N/A				
All crew on site	displaying hard-hat	decals from WEAP training	ng?			X	N/A				
Speed limit obs	erved by all project p	personnel?				X	N/A				
	Biological	Issues		Yes	No	N/A	Attach Suppl	Comments lemental Report if needed			
Work area clear	red by BM prior to co	onstruction activity beginn	ing?			X	N/A				
		ecies encountered? If so, n life incident data form.	ote			X	N/A				
Tortoise exclusi	ionary fence and/or r	amps intact?				X	N/A				
Any nesting bir	ds observed? Note sp	pecies (if known) and locate	tion.			X	N/A				
Common Raver	ns Present? If yes, no	te number and activity.				X	N/A				
All FSAs and of	her bio-related exclusi	on areas marked and avoid	ed?			Y	NI/A				

D' 1 ' 1M	(DM) D	Genesis S	olar E	nergy	y Pro	oject	ъ.	11/14/2014		
Biological M	onitor (BM) Dail	y Report					Date	11/14/2014		
		%, Pcp: None w Temp (°F):		Start Time: Stop Time: Attachments: Photographs:						
		Si	tes Mo	nitore	d					
Circle One:	Plant Site	Access Road	Gas	tas Line Transmission Line Other (explain)						
Activity Log: Inspect north evaporation pond. No avian findings. Some bubbles on top of water, minimal sheen at NW edge.  Water being pumped from south evaporation pond to north evaporation pond. Check oil water separators ppm gauge.  One at 8 the other at 0.  Inspect south pond. Grebe not present, investigate surrounding areas, grebe not found. Bird appears to have flushed.  Install more lines with mylar bird reppellent tape at south pond.  No birds observed entering either pond. No avian mortalities or injuries observed.										
Monitor Checklist										
	Gener	al		Yes	No	N/A	Attach Supp	Comments lemental Report if needed		
Workspace limi	ts verified and prope	erly marked?				X	N/A	*		
•	thin approved works	•				X	N/A			
Only approved	access roads utilized	for ingress and egress?				X	N/A			
Access road sig	ns in place?					X	N/A			
Trash and debri	s contained and disp	osed of in proper manne	er?			X	N/A			
Topsoil segrega	ited properly?					X	N/A			
Topsoil segrega	tion barriers maintai	ned?				X	N/A			
All crew on site	displaying hard-hat	decals from WEAP trai	ning?			X	N/A			
Speed limit obs	erved by all project p	personnel?				X	N/A			
	Biological	Issues		Yes	No	N/A	Attach Supp	Comments lemental Report if needed		
Work area clear	red by BM prior to co	onstruction activity begi	nning?			X	N/A			
•		ecies encountered? If so life incident data form.	, note			X	N/A			
Tortoise exclusi	ionary fence and/or r	amps intact?				X	N/A			
Any nesting bir	ds observed? Note sp	pecies (if known) and lo	cation.			X	N/A			
Common Raver	ns Present? If yes, no	te number and activity.				X	N/A			
All ESAs and of	her bio-related exclus	ion areas marked and avo	oided?			X	N/A			

D. 1 . 134		Genesis So	olar E	nergy	y Pro	oject	<b>.</b>	44.4.7.1004.4		
Biological M	Ionitor (BM) Dai	ly Report					Date	11/15/2014		
		6, Pcp: None w Temp (°F):	<u> </u>	Start Time: - Stop Time: - Attachments: Photographs:						
		Sit	tes Moi	nitore	d					
Circle One: Plant Site Access Road Gas Line Transmission Line Other (										
Activity Log: Inspect north evaporation pond. No avian findings.  Inspect south evaporation pond. No avian findings in morning.  Water is being moved from the south to the north pond.  Adjusted bird exclusion lines with mylar. Inspect areas proximate to evaporation ponds.  One ruddy duck arrived, would not flush, and is being monitored in the south evaporation pond. No mortalities or injuries were observed or recovered from either pond.										
		Me	onitor C	hecklis	t					
General Yes No N/A Atta							Attach Supp	Comments lemental Report if needed		
Workspace limi	its verified and prop	erly marked?				X	N/A	Ť		
All activities wi	ithin approved work	space limits?				X	N/A			
Only approved	access roads utilized	I for ingress and egress?				X	N/A			
Access road sig	ns in place?					X	N/A			
Trash and debri	s contained and disp	osed of in proper manner	r?			X	N/A			
Topsoil segrega	ited properly?					X	N/A			
Topsoil segrega	tion barriers mainta	ined?				X	N/A			
All crew on site	displaying hard-hat	decals from WEAP train	ning?			X	N/A			
Speed limit obs	erved by all project	personnel?				X	N/A			
	Biological			Yes	No	N/A	Attach Supp	Comments lemental Report if needed		
Work area clear	red by BM prior to c	onstruction activity begin	nning?			X	N/A			
•		ecies encountered? If so, dlife incident data form.	note			X	N/A			
Tortoise exclusi	ionary fence and/or	ramps intact?				X	N/A			
Any nesting bir	ds observed? Note s	pecies (if known) and loo	cation.			X	N/A			
Common Raver	ns Present? If yes, no	ote number and activity.				X	N/A			
All ESAs and of	her bio-related exclus	sion areas marked and avo	ided?			X	N/A			

Genesis Solar Energy Project							
Biological Monitor (BM) Daily Report Date 11/16/2014							
Monitor: Eric German	Star	t Time:	: <u>-</u>	Stop Time:			
Weather Conditions: Windy, Clouds: 0%, Pcp: None	Atta	chmen	ts:				
High Temp (°F): Low Temp (°F):	Photographs:						
Sites Monitored							
Circle One: Plant Site Access Road Gas	Gas Line Transmission Line Other (explain)						
Activity Log: Evaporation Ponds not monitored by DB due to saf	ety conc	erns ca	aused by	y high winds and blowing dust.			
Monitor Checklist							
General	Yes	No	N/A	Comments Attach Supplemental Report if needed			
Workspace limits verified and properly marked?			X	N/A			
All activities within approved workspace limits?			X	N/A			
Only approved access roads utilized for ingress and egress?	1		X	N/A			
Access road signs in place?	1		X	N/A			
Trash and debris contained and disposed of in proper manner?	<del>                                     </del>		X	N/A			
Topsoil segregated properly?	1		X	N/A			
Topsoil segregation barriers maintained?			X	N/A			
All crew on site displaying hard-hat decals from WEAP training?			X	N/A			
Speed limit observed by all project personnel?			X	N/A			
Biological Issues	Yes	No	N/A	Comments Attach Supplemental Report if needed			
Work area cleared by BM prior to construction activity beginning?			X	N/A			
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.			X	N/A			
Tortoise exclusionary fence and/or ramps intact?			X	N/A			
Any nesting birds observed? Note species (if known) and location.			X	N/A			
Common Ravens Present? If yes, note number and activity.			X	N/A			
All ESAs and other bio-related exclusion areas marked and avoided?			X	N/A			
Additional Notes: N/A							

Genesis Solar Energy Project										
Biological Monitor (BM) Daily Report					Date 11/14/2014					
Monitor: Eric German  Weather Conditions:, Clouds: 50%, Pcp: None  High Temp (°F): Low Temp (°F):			Start Time: Stop Time: Attachments: Photographs:							
Sites Monitored										
Circle One:	Plant Site	Access Road	Gas	as Line Transmission Line Other (explain)						
Activity Log: Inspect north evaporation pond. No avian findings. Some bubbles on top of water, minimal sheen at NW edge.  Water being pumped from south evaporation pond to north evaporation pond. Check oil water separators ppm gauge.  One at 8 the other at 0.  Inspect south pond. Grebe not present, investigate surrounding areas, grebe not found. Bird appears to have flushed.  Install more lines with mylar bird reppellent tape at south pond.  No birds observed entering either pond. No avian mortalities or injuries observed.										
Monitor Checklist										
	Gener	al		Yes	No	N/A	Attach Supp	Comments lemental Report if needed		
Workspace limi	ts verified and prope	erly marked?				X	N/A	*		
All activities within approved workspace limits?					X	N/A				
Only approved access roads utilized for ingress and egress?					X	N/A				
Access road signs in place?					X	N/A				
Trash and debris contained and disposed of in proper manner?					X	N/A				
Topsoil segregated properly?					X	N/A				
Topsoil segregation barriers maintained?					X	N/A				
All crew on site displaying hard-hat decals from WEAP training?					X	N/A				
Speed limit observed by all project personnel?				X	N/A					
Biological Issues		Yes	No	N/A	Attach Supp	Comments lemental Report if needed				
Work area clear	red by BM prior to co	onstruction activity begi	nning?			X	N/A			
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.		, note			X	N/A				
Tortoise exclusi	ionary fence and/or r	amps intact?				X	N/A			
Any nesting birds observed? Note species (if known) and location.					X	N/A				
Common Ravens Present? If yes, note number and activity.					X	N/A				
All ESAs and other bio-related exclusion areas marked and avoided?					X	N/A				

Genesis Solar Energy Project								
Biological Monitor (BM) Daily Report Date 11/15/2014							11/15/2014	
Monitor: Eric German  Weather Conditions:, Clouds: 0%, Pcp: None  High Temp (°F): Low Temp (°F):			<u> </u>	Start Time: Stop Time: Attachments: Photographs:				
Sites Monitored								
Circle One:	Plant Site	Access Road	Gas	as Line Transmission Line Other (expla				Other (explain)
Activity Log: Inspect north evaporation pond. No avian findings.  Inspect south evaporation pond. No avian findings in morning.  Water is being moved from the south to the north pond.  Adjusted bird exclusion lines with mylar. Inspect areas proximate to evaporation ponds.  One ruddy duck arrived, would not flush, and is being monitored in the south evaporation pond. No mortalities or injuries were observed or recovered from either pond.								
Monitor Checklist								
	Gene	ral		Yes	No	N/A	Attach Supp	Comments lemental Report if needed
Workspace limi	its verified and prop	erly marked?				X	N/A	Ť
All activities within approved workspace limits?					X	N/A		
Only approved access roads utilized for ingress and egress?					X	N/A		
Access road signs in place?					X	N/A		
Trash and debris contained and disposed of in proper manner?					X	N/A		
Topsoil segregated properly?						X	N/A	
Topsoil segregation barriers maintained?						X	N/A	
All crew on site displaying hard-hat decals from WEAP training?		ning?			X	N/A		
Speed limit obs	erved by all project	personnel?				X	N/A	
Biological Issues			Yes	No	N/A	Attach Supp	Comments lemental Report if needed	
Work area clear	red by BM prior to c	onstruction activity begin	nning?			X	N/A	
•		ecies encountered? If so, dlife incident data form.	note			X	N/A	
Tortoise exclusionary fence and/or ramps intact?					X	N/A		
Any nesting birds observed? Note species (if known) and location.		cation.			X	N/A		
Common Raver	ns Present? If yes, no	ote number and activity.				X	N/A	
All ESAs and of	her bio-related exclus	sion areas marked and avo	ided?			X	N/A	

Genesis Solar Energy Project							
Biological Monitor (BM) Daily Report Date 11/16/2014							
Monitor: Eric German	Start Time: -			Stop Time:			
Weather Conditions: Windy, Clouds: 0%, Pcp: None	Atta	chmen	ts:				
High Temp (°F): Low Temp (°F):	Photographs:		ıs:				
Sites Monitored							
Circle One: Plant Site Access Road G	Gas Line Transmission Line			mission Line Other (explain)			
<b>Activity Log:</b> Evaporation Ponds not monitored by DB due to s	salety conc	ems ce	iusea o	y lligh winds and blowing dust.			
Monitor Checklist							
General	Yes	No	N/A	Comments Attach Supplemental Report if needed			
Workspace limits verified and properly marked?			X	N/A			
All activities within approved workspace limits?			X	N/A			
Only approved access roads utilized for ingress and egress?			X	N/A			
Access road signs in place?			X	N/A			
Trash and debris contained and disposed of in proper manner?			X	N/A			
Topsoil segregated properly?			X	N/A			
Topsoil segregation barriers maintained?			X	N/A			
All crew on site displaying hard-hat decals from WEAP training?			X	N/A			
Speed limit observed by all project personnel?			X	N/A			
Biological Issues	Yes	No	N/A	Comments Attach Supplemental Report if needed			
Work area cleared by BM prior to construction activity beginning	?		X	N/A			
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.			X	N/A			
Tortoise exclusionary fence and/or ramps intact?			X	N/A			
Any nesting birds observed? Note species (if known) and location	١.		X	N/A			
Common Ravens Present? If yes, note number and activity.			X	N/A			
All ESAs and other bio-related exclusion areas marked and avoided?			X	N/A			
Additional Notes: N/A							

D' 1 ' 1M	(DM) D	Genesis S	olar E	nergy	y Pro	oject	ъ.	11/14/2014	
Biological M	onitor (BM) Dail	y Report					Date	11/14/2014	
		%, Pcp: None w Temp (°F):		Start Time: Stop Time: Attachments: Photographs:					
		Si	tes Mo	nitore	d				
Circle One:	Plant Site	Access Road	Gas	Gas Line Transmission Line Other (explain)					
Activity Log: Inspect north evaporation pond. No avian findings. Some bubbles on top of water, minimal sheen at NW edge.  Water being pumped from south evaporation pond to north evaporation pond. Check oil water separators ppm gar One at 8 the other at 0.  Inspect south pond. Grebe not present, investigate surrounding areas, grebe not found. Bird appears to have flushed Install more lines with mylar bird reppellent tape at south pond.  No birds observed entering either pond. No avian mortalities or injuries observed.								vater separators ppm gauge.	
		M	Conitor C	Checklis	t				
	Gener	al		Yes	No	N/A	Attach Supp	Comments lemental Report if needed	
Workspace limi	ts verified and prope	erly marked?				X	N/A	*	
•	thin approved works	•				X	N/A		
Only approved	access roads utilized	for ingress and egress?				X	N/A		
Access road sig	ns in place?					X	N/A		
Trash and debri	s contained and disp	osed of in proper manne	er?			X	N/A		
Topsoil segrega	ited properly?					X	N/A		
Topsoil segrega	tion barriers maintai	ned?				X	N/A		
All crew on site	displaying hard-hat	decals from WEAP trai	ning?			X	N/A		
Speed limit obs	erved by all project p	personnel?				X	N/A		
Biological Issues					No	N/A	Attach Supp	Comments lemental Report if needed	
Work area clear	red by BM prior to co	onstruction activity begi	nning?			X	N/A		
•		ecies encountered? If so life incident data form.	, note			X	N/A		
Tortoise exclusionary fence and/or ramps intact?						X	N/A		
Any nesting birds observed? Note species (if known) and location						X	N/A		
Common Raver	ns Present? If yes, no	te number and activity.				X	N/A		
All ESAs and of	her bio-related exclus	ion areas marked and avo	oided?			X	N/A		

Biological M	onitor (BM) Dail	<b>Genesis So</b> y Report	)lar E	nergy	y Pro	oject	Date	11/15/2014	
Monitor: Eri Weather Condit High Temp (°F)	ions: , Clouds: 0%	, Pcp: None w Temp (°F):		Start Time: - Stop Time: - Attachments: Photographs:					
		Site	es Mor	nitore	d				
Circle One:	Plant Site	Access Road	Gas	Line		Trans	mission Line	Other (explain)	
Activity Log: Inspect north evaporation pond. No avian findings.  Inspect south evaporation pond. No avian findings in morning.  Water is being moved from the south to the north pond.  Adjusted bird exclusion lines with mylar. Inspect areas proximate to evaporation ponds.  One ruddy duck arrived, would not flush, and is being monitored in the south evaporation pond. No mortalities of injuries were observed or recovered from either pond.									
		Mo	onitor C	hecklis	t				
	Gener	al		Yes	No	N/A		Comments emental Report if needed	
Workspace limi	ts verified and prope	rly marked?				X	N/A	•	
All activities wi	thin approved works	pace limits?				X	N/A		
Only approved	access roads utilized	for ingress and egress?				X	N/A		
Access road sig	ns in place?					X	N/A		
Trash and debri	s contained and disp	osed of in proper manner	:?			X	N/A		
Topsoil segrega	ited properly?					X	N/A		
Topsoil segrega	tion barriers maintai	ned?				X	N/A		
All crew on site	displaying hard-hat	decals from WEAP train	ing?			X	N/A		
Speed limit obs	erved by all project p	personnel?				X	N/A		
	Biological	Issues		Yes	No	N/A		Comments emental Report if needed	
Work area clear	red by BM prior to co	onstruction activity begin	ining?			X	N/A		
		ecies encountered? If so, life incident data form.	note			X	N/A	-	
Tortoise exclusi				X	N/A				
Any nesting bir	ation.			X	N/A				
Common Raver	ns Present? If yes, no	te number and activity.				X	N/A		
All ESAs and ot	her bio-related exclusi	on areas marked and avoi	ded?			X	N/A		

Genesis Sola	r Energy	y Pro	ject						
Biological Monitor (BM) Daily Report  Date 11/16/2014									
Monitor: Eric German	Start Time: Stop Time:								
Weather Conditions: Windy, Clouds: 0%, Pcp: None	Attachments:								
$High\ Temp\ (^{\circ}F):  \underline{ -  }  Low\ Temp\ (^{\circ}F): \ \underline{ -  }$	Photographs:								
Sites 3	Monitore	d							
Circle One: Plant Site Access Road	Gas Line		Trans	mission Line Other (explain)					
Activity Log: Evaporation Ponds not monitored by DB due to	safety conc	erns ca	used by	y high winds and blowing dust.					
Monit	or Checklis	t							
General	Yes	No	N/A	Comments					
	Tes	NU		Attach Supplemental Report if needed					
Workspace limits verified and properly marked?			X	N/A					
All activities within approved workspace limits?			X	N/A					
Only approved access roads utilized for ingress and egress?			X	N/A					
Access road signs in place?			X	N/A					
Trash and debris contained and disposed of in proper manner?			X	N/A					
Topsoil segregated properly?			X	N/A					
Topsoil segregation barriers maintained?			X	N/A					
All crew on site displaying hard-hat decals from WEAP training	?		X	N/A					
Speed limit observed by all project personnel?			X	N/A					
Biological Issues	Yes	No	N/A	Comments Attach Supplemental Report if needed					
Work area cleared by BM prior to construction activity beginnin	g?		X	N/A					
Any desert tortoise or other T&E species encountered? If so, not species in comments and attach wildlife incident data form.	e		X	N/A					
Tortoise exclusionary fence and/or ramps intact?			X	N/A					
Any nesting birds observed? Note species (if known) and location	n.		X	N/A					
Common Ravens Present? If yes, note number and activity.			X	N/A					
All ESAs and other bio-related exclusion areas marked and avoided	?		X	N/A					
Additional Notes: N/A	ı	I							

Genesis Solar Energy Project										
Biological Me	onitor (BM) Daily	Report					Date 11/	/13/2014		
	c German ions:, Clouds: 50% : Low	, Pcp: None Temp (°F):	_	Start Time: _ Stop Time: Attachments: Photographs:						
		Sites	s Monite	ored	ı					
Circle One: Plant Site Access Road Gas Line T							mission Line	Other (explain)		
Activity Log: Inspect north evaporation pond. No avian findings. One ppm reader off the other at 0.  Inspect south evaporation pond. One eared grebe present. Appears to be the fresher new grebe from about a week ago. Pond and pond area inspected for other grebe. Grebe not found. Flock of 50 avocets continually flew over ponds, 0640 onward. Avocets still flying over ponds and site at 14:00. 3 gulls flew over ponds and left in SE direction.  Avocet flush attempts via making self visible, walking pond perimeters, sound cannons, north pond flagging, south pond one line of flagging, increased number of lines of flagging throughout day, water truck spray and air horn, p/u vehicles horns. Netting wire and mylar on lines appeared to be most effective deterrent.  Contacted by USFWS, 11:05, for update. Contacted by CDFW, 15:20, for update.  One eared grebe in pond at end of day, bird made some test flights. No injured birds rescued or observed.								nually flew over and left in SE pond flagging, south oray and air horn, p/u		
		Mon	itor Chec	cklist	t					
	Genera	1	7	Yes	No	N/A		nments ntal Report if needed		
Workspace limit	ts verified and proper	ly marked?				X	N/A	•		
All activities wi	thin approved worksp	ace limits?				X	N/A			
Only approved a	access roads utilized f	or ingress and egress?				X	N/A			
Access road sign	ns in place?					X	N/A			
Trash and debris	s contained and dispos	sed of in proper manner?				X	N/A			
Topsoil segregat	ted properly?					X	N/A			
Topsoil segregat	tion barriers maintain	ed?				X	N/A			
All crew on site	displaying hard-hat d	ecals from WEAP training	ng?			X	N/A			
Speed limit obse	erved by all project pe	ersonnel?				X	N/A			
	Biological I	ssues	Y	Yes	No	N/A		nments ntal Report if needed		
Work area clear	ed by BM prior to cor	nstruction activity beginn	ing?			X	N/A			
•		cies encountered? If so, notife incident data form.	ote			X	N/A			
Tortoise exclusionary fence and/or ramps intact?						X	N/A			
Any nesting birds observed? Note species (if known) and location.						X	N/A			
Common Raven	s Present? If yes, note	e number and activity.				X	N/A			
All ESAs and oth	ner bio-related exclusion	on areas marked and avoide	ed?			X	N/A			

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Additional Notes:

Biological M	Ionitor (BM) Dai	<b>Genesis So</b> ly Report	lar Eı	nergy	y Pro	ject	Date	11/12/2014
Monitor: <u>Eri</u> Weather Condit High Temp (°F)	tions: , Clouds: 09	%, Pcp: None w Temp (°F):	_	Atta	Time: chmen ograph	ts:	Stop	o Time:
		Site	es Mon	itore	d			
Circle One:	Plant Site	Access Road	Gas I	Line		Trans	mission Line	Other (explain)
Activity Log:	Inspect south evap boat and persons it and landed in pond over pond circled was allowed to res flushed successful Goose drank water	oration pond, no avian fir oration pond, scaups and in waders. Birds remain in d, exclusion attempt of rattand left. Buffleheads flush t. Appeared injured, swim ly. 08:50 single snow goos r, recovered, flushed and finjuries (requiring/allowing	ruddy du pond. G tling wir led, line liming an se avoide lew awa	rebes researches during strike divinged exclered y. 5 sa	eacted ng app luring norm usion, ndpipe	by swing roach was first flumally. Lande a crs note	mming and diving was ineffective. Flosh attempt, buffle ater flying normal line strike and lard to be flying in so	. Two Buffleheads flew ock of 10+ Avocets flew head returned to water lly and buffleheads anded in south pond.
		Mo	nitor Cl	necklis	t			
	Gene	ral		Yes	No	N/A		Comments emental Report if needed
Workspace limi	its verified and prop	erly marked?				X	N/A	1
All activities wi	ithin approved work	space limits?				X	N/A	
Only approved	access roads utilized	I for ingress and egress?				X	N/A	
Access road sig	ns in place?					X	N/A	
Trash and debri	s contained and disp	osed of in proper manner	?			X	N/A	
Topsoil segrega	ited properly?					X	N/A	
Topsoil segrega	tion barriers mainta	ined?				X	N/A	
All crew on site	displaying hard-har	t decals from WEAP traini	ng?			X	N/A	
Speed limit obs	erved by all project	personnel?				X	N/A	
	Biologica	l Issues		Yes	No	N/A		Comments emental Report if needed
Work area clear	red by BM prior to c	onstruction activity begins	ning?			X	N/A	
species in comn	nents and attach wil	pecies encountered? If so, a dlife incident data form.	note			X	N/A	
Tortoise exclusi				X	N/A			
Any nesting bir	ation.			X	N/A			
Common Raver	ns Present? If yes, no	ote number and activity.				X	N/A	
All ESAs and oti	her bio-related exclus	sion areas marked and avoid	ded?			X	N/A	

Biological M	onitor (BM) Dail	<b>Genesis Solar 1</b> y Report	Energy	y Pro	oject	Date 1	1/11/2014		
Monitor: Eric	c German	!	Star	t Time	: -	Stop	Time: -		
		, Pcp: None		chmen					
	): Lov		Phot	tograpl	hs:				
		Sites Mo	onitore	d					
Circle One:	Plant Site	Access Road Ga	s Line		Trans	mission Line	Other (explain)		
Activity Log:	with flush/capture of grebes. Grebes avoided approach by swimming and diving. Inspect north pond. No avian findings.  Inspect south evaporation pond. Two eared grebes and one male ruddy duck. Flush attempts made by trying to approach birds from shore and then by raking a line with mylar flagging over and on top of the water. Flush attempts unsuccessful. Informed site of third bird and requested flushing assistance. Two lesser scaups landed in pond. One Scaup hit netting wires while attempting exit, swimming normally, does not have apparent injuries. Other birds observed: one gull, one sandpiper, two small flocks of eared grebes ( groups of 6 and 4), high flying geese and one snow goose successfully excluded from pond.  EOD two scaups, one ruddy duck, two eared grebe in south pond. No mortalities or injuries recovered.								
		Monitor	Checklis	t					
	Gener	al	Yes	No	N/A		omments nental Report if needed		
Workspace limi	ts verified and prope	erly marked?			X	N/A	1		
All activities wi	thin approved works	space limits?	İ		X	N/A			
Only approved a	access roads utilized	for ingress and egress?	j		X	N/A			
Access road sign		<u> </u>	İ		X	N/A			
	-	osed of in proper manner?			X	N/A			
Topsoil segrega		· ·			X	N/A			
	tion barriers maintain	ned?			X	N/A			
		decals from WEAP training?	1		X	N/A			
	erved by all project p				X	N/A			
	Biological		Yes	No	N/A		omments nental Report if needed		
Work area clear	red by BM prior to co	onstruction activity beginning?			X	N/A	•		
•	-	ecies encountered? If so, note llife incident data form.			X	N/A			
Tortoise exclusi			X	N/A					
Any nesting birds observed? Note species (if known) and location.  X N/A									
Common Raver	ns Present? If yes, no	te number and activity.			X	N/A			
All ESAs and otl	All ESAs and other bio-related exclusion areas marked and avoided?  X N/A								
Additional Not	had been assig	luder personnel had been preser gned to pond, 10/18/14 11/10 bond, sound cannons in place, p	/14. Due	to mo	stly uns	uccessful flush atte	mpts, additional site		

exclusion. Use of site personnel with other duties to be tried as bird exclusion assistance.

D' 1 ' 134	(D) (D) (D) (D) (D) (D)	Genesis Sol	ar Ener	gy Pr	oject	ъ.	11/6/2014		
Biological M	onitor (BM) Dail	y Report				Date	11/6/2014		
Monitor: <u>Eri</u> Weather Condit High Temp (°F)	tions: Sunny, Clou	ds: 0%, Pcp: None w Temp (°F):	At	Start Time: Stop Time: Attachments: Photographs:					
		Sites	Monitor	ed					
Circle One:	Plant Site	Access Road	Gas Line		Trans	mission Line	Other (explain)		
Activity Log: Inspect north evaporation pond. No activities, no avian findings. Inspect south evaporation pond. Two grebes in pond, previous day there were seven. Inspected areas on site around evaporation ponds, no findings. Drove portion of site perimeter fence, no findings. Four Sandpipers foraging at pond. Grebes do not appear to be foraging or preening at a similar rate as previous days, appear to be resting (alive not appearing in dire distress). During due diligence following previous day flush/haze a western grebe carcass was located north of unit 1 solar fields. No matted feathers or odor. Salvaged, placed in on site freezer, and reported to USFWS LE (13:49). No oth mortalities salvaged or observed. No injured/distressed birds rescued.									
		Mon	itor Checkl	ist					
	Gener	al	Yes	No	N/A	Attach Suppl	Comments lemental Report if needed		
Workspace limi	its verified and prope	rly marked?			X	N/A	_		
All activities wi	ithin approved works	pace limits?			X	N/A			
Only approved	access roads utilized	for ingress and egress?			X	N/A			
Access road sig	ns in place?				X	N/A			
Trash and debri	s contained and disp	osed of in proper manner?			X	N/A			
Topsoil segrega	ited properly?				X	N/A			
Topsoil segrega	tion barriers maintai	ned?			X	N/A			
All crew on site	displaying hard-hat	decals from WEAP trainin	ıg?		X	N/A			
Speed limit obs	erved by all project p	personnel?			X	N/A			
	Yes	No	N/A	Attach Suppl	Comments lemental Report if needed				
Work area clear	red by BM prior to co	onstruction activity beginni	ing?		X	N/A			
		ecies encountered? If so, no llife incident data form.	ote		X	N/A			
Tortoise exclusi			X	N/A					
Any nesting bir	ion.		X	N/A					
Common Raver	ns Present? If yes, no	te number and activity.			X	N/A			
All FSAs and of	her hio-related evelus	ion areas marked and avoide	d2		Y	N/A			

D' 1 ' 1M	COMP.	Genesis S	Solar E	Cnergy	y Pro	oject	ъ.	11/5/2014
Biological M	onitor (BM) Dai	ly Report					Date	11/5/2014
		6, Pcp: None w Temp (°F):		Atta	t Time chmen cograpl	ts:	Sto	op Time:
		S	ites Mo	nitore	d			
Circle One:	Plant Site	Access Road	Gas	Line		Trans	mission Line	Other (explain)
Activity Log: Inspect north pond. Patching of liner activities. No avian activity.  Inspect south evaporation pond. Seven eared grebes. Sandpipers and American Coot no longer present. Flush/Ha attempts made on grebes, sound cannons, manned boat, persons using waders in water, and bio on shore. Some si flights taken by birds, diving and swimming to avoid flush. If a bird is distressed and able to be captured it will b transported to International Bird Rescue, Los Angeles. One grebe noted to be at times swimming separately from remaining flock. It does not allow approach or capture. Odor from pond. No sheen noted. 10 mile average wind north, 13:00 82 degrees.  Seven grebes in south pond, mideast end, sound cannons on west end.								d bio on shore. Some short to be captured it will be mming separately from
		N	Ionitor C	Checklis	t			
	Gene	ral		Yes	No	N/A	Attach Suppl	Comments lemental Report if needed
Workspace limi	ts verified and prop	erly marked?				X	N/A	Ť
All activities wi	ithin approved work	space limits?				X	N/A	
Only approved	access roads utilized	for ingress and egress?	)			X	N/A	
Access road sig	ns in place?					X	N/A	
Trash and debri	s contained and disp	osed of in proper mann	er?			X	N/A	
Topsoil segrega	ited properly?					X	N/A	
Topsoil segrega	tion barriers mainta	ined?				X	N/A	
All crew on site	displaying hard-hat	decals from WEAP tra	ining?			X	N/A	
Speed limit obs	erved by all project	personnel?				X	N/A	
		Yes	No	N/A	Attach Suppl	Comments lemental Report if needed		
Work area clear	red by BM prior to c	onstruction activity beg	inning?			X	N/A	
•		ecies encountered? If so llife incident data form				X	N/A	
Tortoise exclusionary fence and/or ramps intact?						X	N/A	
Any nesting birds observed? Note species (if known) and location						X	N/A	
Common Raver	ns Present? If yes, no	te number and activity.				X	N/A	
All ESAs and of	her bio-related exclus	ion areas marked and av	oided?			X	N/A	

D' 1 ' 114		Genesis	Solar E	nergy	y Pro	oject	ъ.	11/4/2014		
Biological M	(onitor (BM) Dai	y Report					Date	11/4/2014		
	c German tions: Windy, Clou ): Lo	uds: 0%, Pcp: None w Temp (°F):		Start Time: Stop Time:  Attachments: Photographs:						
		S	Sites Mo	nitore	d					
Circle One:	Plant Site	Access Road	Gas	Gas Line Transmission Line Other (explain)						
Activity Log:	American Coot, 8 edge. Grebes most Care Network and salvaged and place Discussions with sattempts. Intent is	eared Grebes. Coot wa ly along windward sou International Bird Res d in onsite freezer. 13: ite management regard to flush remaining bird	s standing of the edge of cue contact 40 USFW ling adding ds from po	on liner pond. Exted regards LE cog sound and.	c, enter exclude erding a ntacted cannot	ed watered one of a distress and in and in ans, person	er when approach duck (possible G ssed Eared Greb offormed. ona in waders an	gs. Inspect south pond, 1 ned. Coot is on lee of north adwall). Oiled Wildlife e. Grebe expired. Carcass d manned boat to flushing nortality was removed from		
		]	Monitor C	Checklis	t					
	Gener	al		Yes	No	N/A	Attach Supp	Comments lemental Report if needed		
Workspace limi	its verified and prope	erly marked?				X	N/A	*		
•	ithin approved works	•				X	N/A			
Only approved	access roads utilized	for ingress and egress	?			X	N/A			
Access road sig	ns in place?					X	N/A			
Trash and debri	s contained and disp	osed of in proper man	ner?			X	N/A			
Topsoil segrega	ited properly?					X	N/A			
Topsoil segrega	tion barriers maintai	ned?				X	N/A			
All crew on site	displaying hard-hat	decals from WEAP tr	aining?			X	N/A			
Speed limit obs	erved by all project p	personnel?				X	N/A			
		Yes	No	N/A	Attach Supp	Comments lemental Report if needed				
Work area clear	red by BM prior to c	onstruction activity be	ginning?			X	N/A			
•		ecies encountered? If s llife incident data form				X	N/A			
Tortoise exclusionary fence and/or ramps intact?						X	N/A			
Any nesting bir	location.			X	N/A					
Common Raver	ns Present? If yes, no	te number and activity	7.			X	N/A			
All ESAs and of	her bio-related exclus	ion areas marked and a	voided?			X	N/A			

D. 1 . 134		Genesis Sola	ar Energ	y Pro	oject	D 41/0/6	2014
Biological M	onitor (BM) Dail	y Report				Date 11/3/2	2014
Monitor: <u>Eri</u> Weather Condit High Temp (°F)	tions: Windy, Clou	nds: 0%, Pcp: None w Temp (°F):	Atta	rt Time achmen tograpl	its:	Stop Time	: <u>-</u>
		Sites	Monitore	d			
Circle One:	Plant Site	Access Road	Gas Line		Trans	mission Line	Other (explain)
Activity Log: Inspect north evaporation pond. Some sludge removal activities, no avian findings. Inspect south pond. Single American Coot, 8 eared grebes, 5 sandpipers observed. Flush attempts made using owl, rattling netting wires, persons, horn honking. Boat was not used due to winds. Coot would take short flight or swim away. Two Gadwell flew and landed in pond. Gadwells flushed, able to fly in semi vertical flight through netting wires. 12:01 contacted by USFWS for pond and bird status. USFWS suggested contacting Oiled Wildlife Care Network to discuss possibl capture strategy for remaining 8 grebes. Nightime capture using boat, dip net, and spotlighting was offered by USFWS. Informed site management of phone call recommending OWCN contact. Remainder of day flush attempts were unsuccessful.							
		Moni	tor Checklis	st			
	Gener	al	Yes	No	N/A	Comme Attach Supplemental	
Workspace limi	ts verified and prope	rly marked?			X	N/A	_
All activities wi	thin approved works	pace limits?			X	N/A	
Only approved	access roads utilized	for ingress and egress?			X	N/A	
Access road sig	ns in place?				X	N/A	
Trash and debri	s contained and disp	osed of in proper manner?			X	N/A	
Topsoil segrega	ited properly?				X	N/A	
Topsoil segrega	tion barriers maintai	ned?			X	N/A	
All crew on site	displaying hard-hat	decals from WEAP training	g?		X	N/A	
Speed limit obs	erved by all project p	personnel?			X	N/A	
	Biological	Issues	Yes	No	N/A	Common Attach Supplemental	
Work area clear	red by BM prior to co	onstruction activity beginning	ng?		X	N/A	
		ecies encountered? If so, no llife incident data form.	te		X	N/A	
Tortoise exclusi			X	N/A			
Any nesting bir	ds observed? Note sp	pecies (if known) and location	on.		X	N/A	
Common Raver	ns Present? If yes, no	te number and activity.			X	N/A	
All FSAs and of	her hio-related exclus	ion areas marked and avoided	49		Y	N/A	

Biological M	onitor (BM) Dail	<b>Genesis So</b> y Report	lar En	ergy	y Pro	ject	Date	10/31/2014		
Monitor: Eri Weather Condit High Temp (°F)	ions: , Clouds: 0%	o, Pcp: None w Temp (°F):		Start Time: Stop Time:  Attachments: Photographs:						
		Site	es Moni	tored	1					
Circle One:	Plant Site	Access Road	Gas L	ine		Trans	mission Line	Other (explain)		
Activity Log: Check on eared grebe rescued from pond previous day. Grebe appears to have difficulty breathing. Status of bird discussed with International Bird Rescue. Bird brought to IBR LA Center; it did not survive transport. Phone message left with USFWS LE. Center kept the mortality.  In morning, inspect evaporation ponds. North pond being cleaned. South pond 8 grebes in pond, reports that two have been flying, avoiding wires then returning to pond. Observed two other grebes flying to the east of the south pond. Both birds flushed and flew from site in an easterly direction.										
		Mo	nitor Che	ecklist	t					
	Gener	al		Yes	No	N/A		Comments emental Report if needed		
Workspace limi	ts verified and prope	erly marked?				X	N/A	•		
All activities wi	thin approved works	pace limits?				X	N/A			
Only approved	access roads utilized	for ingress and egress?				X	N/A			
Access road sig	ns in place?					X	N/A			
Trash and debri	s contained and disp	osed of in proper manner	?			X	N/A			
Topsoil segrega	ited properly?					X	N/A			
Topsoil segrega	tion barriers maintai	ned?				X	N/A			
All crew on site	displaying hard-hat	decals from WEAP traini	ing?			X	N/A			
Speed limit obs	erved by all project p	personnel?				X	N/A			
	Biological	Issues		Yes	No	N/A		Comments emental Report if needed		
Work area clear	red by BM prior to co	onstruction activity begin	ning?			X	N/A			
		ecies encountered? If so, allife incident data form.	note			X	N/A	-		
Tortoise exclusi				X	N/A					
Any nesting bir	ation.			X	N/A					
Common Raver	ns Present? If yes, no	te number and activity.				X	N/A			
All ESAs and oti	her bio-related exclus	ion areas marked and avoid	ded?			X	N/A			

Biological M	Genesis Solar Energy Project Siological Monitor (BM) Daily Report Date 11/1/2014										
Weather Condi		%, Pcp: None w Temp (°F):		Atta	Time: chmen ograph	ts:	Sto	pp Time:			
		Sit	es Mon	itored	ı						
Circle One:	Plant Site	Access Road	Gas l	Line		Trans	mission Line	Other (explain)			
Activity Log:	Inspect south with Salvaged, left mes observed alive uponessage left with 12:10 5 additional Informed site man 13 grebes, 9 sandp		er person 0:10), and wimming as unknot sclusion a red pond sed) cour	nnel; a by deplaced grand recovery bire attempt and wanted in	oird mod in on olled of reports and structured structured to the old of the old of the old of the old of the old old old old old old old old old old	site frever and rted (10 subsequessfully 2 morta	ezer. A Red-neck became deceased 0:10), placed in or ent hazing attempt flushed. lities salvaged from	nsite freezer. pts were not successful.			
		Mo	onitor Cl	hecklis	t						
	Gene	ral		Yes	No	N/A		Comments emental Report if needed			
Workspace lim	its verified and prop	erly marked?				X	N/A	•			
All activities w	ithin approved work	space limits?				X	N/A				
Only approved	access roads utilized	I for ingress and egress?				X	N/A				
Access road sig	ns in place?					X	N/A				
Trash and debri	is contained and disp	osed of in proper manner	r?			X	N/A				
Topsoil segrega	ated properly?					X	N/A				
Topsoil segrega	ation barriers mainta	ined?				X	N/A				
All crew on site	e displaying hard-ha	decals from WEAP train	ning?			X	N/A				
Speed limit obs	erved by all project	personnel?				X	N/A				
	Biologica	l Issues		Yes	No	N/A		Comments emental Report if needed			
Work area clear	red by BM prior to o	onstruction activity begin	nning?			X	N/A				
		pecies encountered? If so, dlife incident data form.	note			X	N/A				
Tortoise exclus				X	N/A						
Any nesting bir	cation.			X	N/A						
Common Raver	ns Present? If yes, no	ote number and activity.				X	N/A				
All ESAs and ot	her bio-related exclus	sion areas marked and avoi	ided?			X	N/A				

10/31/14 additional note: hazing and exclusion techniques were discussed with a CDFW contact. Items discussed included the use of amplified predator calls, sound cannons, remote control boats, mylar bird

reppellant tape strung at water level, nighttime

**Additional Notes:** 

Biological M	onitor (BM) Dail	<b>Genesis So</b> ly Report	lar En	ergy	y Pro	ject	Date	11/2/2014		
Monitor: Eri Weather Condit High Temp (°F)	tions: Windy, Clou	uds: 0%, Pcp: None w Temp (°F):		Start Time: Stop Time: Attachments: Photographs:						
		Site	es Moni	itored	d					
Circle One:	Plant Site	Access Road	Gas L	ine		Trans	mission Line	Other (explain)		
Activity Log:	Consistent west wind 5-10 mph. Inspect north evaporation pond. No activities, no avian findings. Inspect south evaporation pond, 8 eared grebes, 7 sandpipers, 2 ruddy ducks. Successful flush of ruddy ducks. Sandpipers flushed and returned one hour later. Eared grebes seem not able to fly, eluded flush attempts by swimming; no water walking. Some sheen, unknown source noted at west edge of south evaporation pond. Throughout day grebes searching. Noted matting of back feathers, back feathers shiny, birds appear to be sitting with at least half of body out of water. One eared grebe is separating self from group, bird being monitored- cannot approach.  No mortalities or injuries discovered.									
	Monitor Checklist									
	Gener	al		Yes	No	N/A		Comments emental Report if needed		
Workspace limi	ts verified and prope	erly marked?	$\neg$			X	N/A	1		
All activities wi	thin approved works	space limits?				X	N/A			
Only approved	access roads utilized	for ingress and egress?				X	N/A			
Access road sig	ns in place?					X	N/A			
Trash and debri	s contained and disp	osed of in proper manner?	?			X	N/A			
Topsoil segrega	ited properly?					X	N/A			
Topsoil segrega	tion barriers maintai	ned?				X	N/A			
All crew on site	displaying hard-hat	decals from WEAP traini	ing?			X	N/A			
Speed limit obse	erved by all project p	personnel?				X	N/A			
	Biological	Issues		Yes	No	N/A		Comments emental Report if needed		
Work area clear	red by BM prior to co	onstruction activity begins	ning?			X	N/A			
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.						X	N/A			
Tortoise exclusionary fence and/or ramps intact?						X	N/A			
Any nesting birds observed? Note species (if known) and location.						X	N/A			
Common Raver	ns Present? If yes, no	te number and activity.				X	N/A			
All ESAs and oth	her bio-related exclus	ion areas marked and avoid	ded?			X	N/A			

		Genesis Solar I	Energy	y Pro	oject				
Biological Monitor (BM) Daily Report  Date 10/30/2014									
Monitor: Eri	c German	I	Star	t Time	: -	Sto	p Time: -		
	ions: , Clouds: 0%,	Pcp: None		chmen					
High Temp (°F)	): <u>-</u> Low	Temp (°F):	Phot	tograpl	ns:				
		Sites Mo	nitore	d					
Circle One:	Plant Site		s Line		Trans	mission Line	Other (explain)		
Activity Log:	08:30 nine grebes observed, one eared grebe at bottom of ramp with matted feathers appears to have waterproofing issues. Discussed with site management. Attempts made to contact international bird rescue and oiled wildlife care network. Decision made to capture and bring to IBR. Grebe swam away and did not allow capture. Two other unsuccessful attempts made. Bird is swimming low in water, neck and head above water. Swims to edge of pond and rests using liner for support. Decision made to allow bird to rest and attempt to be made at later in day. 12:03 CDFW contacted me for update and confirm other birds taken to rehab. 13:00 A second grebe may have waterproofing problems, matted feathers, shiny back and neck. 14:00 eared grebe attempted to fly from pond. Appeared to be flying well then struck a netting wire. Bird swam to shore and climbed up ramp. An attempt was made to capture after informing site of line strike. Bird ran back into pond as attempt was made. It seems to have regained abilities and rejoined the other grebes.  Site was informed of condition of grebe observed on ramp earlier in day. Bird on liner and head not held high. IBR and OWCN contacted again. Decision made to attempt capture. Grebe captured, photograph taken and sent to IBR. Decision made to keep bird until morning due to unhealthy travel status and possible odors. Grebe status to be reevaluated in morning.  8 grebes and 5 sandpipers remain in south pond.  Water in pond appers to be less clear, with red/yellow tint. Pond surface without obvious sheen but algae layer in								
	portions.	M 4 1	OL1-1°	4					
		Monitor (			l		Comments		
	General		Yes	No	N/A		emental Report if needed		
Workspace limi	ts verified and properl	y marked?			X	N/A			
All activities wi	thin approved worksp	ace limits?			X	N/A			
Only approved	access roads utilized for	or ingress and egress?			X	N/A			
Access road sig	ns in place?				X	N/A			
Trash and debri	s contained and dispos	sed of in proper manner?			X	N/A			
Topsoil segrega	ted properly?				X	N/A			
Topsoil segrega	tion barriers maintaine	ed?			X	N/A			
All crew on site	displaying hard-hat d	ecals from WEAP training?			X	N/A			
Speed limit obse	erved by all project pe	rsonnel?			X	N/A			
	Biological Is	ssues	Yes	No	N/A		Comments emental Report if needed		
Work area cleared by BM prior to construction activity beginning?  X N/A									
	oise or other T&E spec nents and attach wildli	eies encountered? If so, note fe incident data form.			X	N/A			
-	ionary fence and/or rai				X	N/A			
	•	ecies (if known) and location.	+		X	N/A			
	Common Ravens Present? If yes, note number and activity.					N/A			
		on areas marked and avoided?			X	N/A			
Additional Not					<u> </u>				

Biological M	Ionitor (BM) Dail	<b>Genesis S</b> ly Report	Solar Ei	nergy	y Pro	oject	Date 10/	/29/2014		
Weather Condit	c German tions:, Clouds: 0% ): Lov	5, Pcp: None w Temp (°F):		Start Time: - Stop Time: - Attachments: Photographs:						
		S	ites Mon	itore	d					
Circle One:	Plant Site	Access Road	Gas I	Line		Trans	mission Line	Other (explain)		
american avocet from south pond area. Netting wire structures rattled and horns from vehicles. Boat placed in water, netting removed from pond water. 09:30 ended flush attempts, avocets continue to circle pond and seem deterred by net wire grid. Birds are to be allowed to land. Two possible ring-necked ducks or female lesser scaup visited pond during flushing attempts and left, may have been same two ducks as previous day. Avocets continued flying over pond, did not land, not hazed since 09:30.  Counted 9 eared grebes and 8 sandpipers in south pond.  11:49 wind shift from northwest, avocets formed v formation, gained altitude and flew toward northwest, as of 13:00 avocets did not return.  South pond has red tint from prior day, 10/28, discharge. Some possible sheen surface to be monitored.  17:08 informed of bird mortality at light stand of north evaporation pond. Bird collected and placed in freezer onsite by site personnel.								and seem deterred by scaup visited pond ontinued flying over northwest, as of 13:00 onitored.		
		N	Ionitor Cl	necklis	t					
	Gener	al		Yes	No	N/A		nments ntal Report if needed		
Workspace limit	its verified and prope	erly marked?				X	N/A			
All activities w	ithin approved works	space limits?				X	N/A			
Only approved	access roads utilized	for ingress and egress?	?			X	N/A			
Access road sig	ns in place?					X	N/A			
Trash and debri	s contained and disp	osed of in proper mann	er?			X	N/A			
Topsoil segrega	ited properly?					X	N/A			
Topsoil segrega	tion barriers maintai	ned?				X	N/A			
All crew on site	displaying hard-hat	decals from WEAP tra	ining?			X	N/A			
Speed limit obs	erved by all project p	personnel?				X	N/A			
	Biological	Issues		Yes	No	N/A		nments ntal Report if needed		
Work area clear	red by BM prior to co	onstruction activity beg	inning?			X	N/A			
•		ecies encountered? If so llife incident data form.				X	N/A			
Tortoise exclus	ionary fence and/or r	amps intact?				X	N/A			
Any nesting bir	ds observed? Note sp	pecies (if known) and lo	ocation.			X	N/A			
Common Raver	ns Present? If yes, no	te number and activity.				X	N/A			
All ESAs and of	her bio-related exclus	ion areas marked and av	oided?			X	N/A			

	Genesis Solar Energy Project Biological Monitor (BM) Daily Report  Date 10/28/2014											
Biological M	onitor (BM) Dail	ly Report					Date	10/28/2014				
Monitor: Eric	c German			Start	Time:	: -	Stop	Time: -				
Weather Condit	ions: , Clouds: 0%	6, Pcp: None		Attachments:								
High Temp (°F)	: Lo	w Temp (°F):		Photographs:								
		Sit	es Monit	tored	d							
Circle One:	Plant Site	Access Road	Gas Li	ine		Trans	mission Line	Other (explain)				
Inspect south pond. Counted 11 eared grebes, 3 sandpipers. No mortalities or distressed birds found in morning. Birds do not appear to have preening or water proofing problems.  Bird reppellent tape, 2x3', attached to netting support wires along perimeter (reachable) at 20' intervals. 11:20 two ducks flew into pond. Flushed, one hit line during exit, strike was not hard and did not bring duck down. Ducks left pond area flying east.  11:40 noted red discharge into pond. Investigated and located an eared grebe mortality. Informed site of discharge and mortality. Grebes had appeared normal prior to discharge. Grebe salvaged and placed into on-site cooler. 12:42 informed USFWS LE via phone message.  Discussed net in water of south pond removal. Site completing protocols for boat for removal. 13:34 contacted by CDFW and gave update on conditions at ponds. North pond dewatered and drying occuring of sludge. South pond discharge and earlier reported grebe mortality.							20' intervals. id not bring duck down. ormed site of discharge into on-site cooler. 12:42					
		Mo	onitor Che	ecklist	f							
	Gener			Yes	No	N/A		Comments				
XXX 1 1' '				105	110			mental Report if needed				
-	ts verified and prope	•				X	N/A					
	thin approved works	-				X	N/A					
• • • • • • • • • • • • • • • • • • • •		for ingress and egress?				X	N/A					
Access road sign		and of in manage manage	.9			X	N/A					
Topsoil segregar		osed of in proper manner	1			X	N/A N/A					
	tion barriers maintai	inad?				X	N/A					
1 0 0		decals from WEAP train	ing?			X	N/A					
	erved by all project		ing.			X	N/A					
Speed mint obse	Biological			Yes	No	N/A	(	Comments mental Report if needed				
Work area clear	ed by BM prior to c	onstruction activity begin	ning?			X	N/A					
		ecies encountered? If so, llife incident data form.	note			X	N/A					
Tortoise exclusi	onary fence and/or i	camps intact?				X	N/A					
Any nesting birds observed? Note species (if known) and location						X	N/A					
Common Raven	s Present? If yes, no	ote number and activity.				X	N/A					
All ESAs and oth	ner bio-related exclus	ion areas marked and avoi	ded?			X	N/A					

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**Additional Notes:** 

Biological M	onitor (BM) Dail	<b>Genesis So</b> ly Report	olar E	nergy	y Pro	ject	Date 1	0/27/2014		
Monitor: Eric	c German			Start	t Time:	: -	Stop	Time: -		
	ions: , Clouds: 0%	6, Pcp: None			chmen					
High Temp (°F)		w Temp (°F):		Phot	ograpł	ıs:				
		Sit	tes Mon	Monitored						
Circle One:	Plant Site	Access Road	Gas 1	Line		Trans	mission Line	Other (explain)		
Activity Log:	day. Bird excluders flushed two banded pigeons from north pond.  Inspect south pond. Bird excluders reported a flock of 13 ducks attempting access to pond. Birds appeared deterred by wire grid over pond and by bird excluder efforts and did not enter pond. Western Grebe from prior day was sitting on dirt located on liner at southeast corner of south pond. International bird rescue and oiled wildlife center contacted. Grebe was captured by hand and brought to International Bird Rescue personnel at a halfway meeting point. Bird had strength at time of transfer.  Ponds inspected at end of day. 11 grebes and 4 sandpipers counted in south pond. North pond being mucked out, sludge being pushed and dewatered. No avian activity observed.  No mortalities observed in either pond. One bird (western grebe alive) removed from south pond, transported to international bird rescue.									
	Monitor Checklist									
	Gener	ral		Yes	No	N/A		comments nental Report if needed		
Workspace limi	ts verified and prope	erly marked?				X	N/A			
All activities wi	thin approved works	space limits?				X	N/A			
Only approved a	access roads utilized	for ingress and egress?				X	N/A			
Access road sign	ns in place?					X	N/A			
Trash and debris	s contained and disp	osed of in proper manne	r?			X	N/A			
Topsoil segrega		<del></del>				X	N/A			
Topsoil segrega	tion barriers maintai	ned?				X	N/A			
All crew on site	displaying hard-hat	decals from WEAP train	ning?			X	N/A			
Speed limit obse	erved by all project p	personnel?				X	N/A			
	Biological	Issues		Yes	No	N/A	_	comments nental Report if needed		
Work area clear	ed by BM prior to c	onstruction activity begin	nning?			X	N/A			
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.						X	N/A			
Tortoise exclusi	onary fence and/or r	amps intact?				X	N/A			
Any nesting birds observed? Note species (if known) and location.  X N/A										
Common Raven	s Present? If yes, no	te number and activity.				X	N/A			
All ESAs and oth	ner bio-related exclus	ion areas marked and avo	ided?			X	N/A			
Additional Not	es: N/A				<u>I</u>					

Genesis Solar Energy Project										
Biological M	onitor (BM) Dail	ly Report				Date 10/23/2014				
Monitor: Eric	c German		Sta	rt Time	: 7:5	0:00 AM Stop Time: 3:10:00 PM				
	ions: , Clouds: 0%	6, Pcp: None		achmer		·				
High Temp (°F)	: - Lo	w Temp (°F):	Ph	Photographs:						
		Site	s Monitor	ed						
Circle One:	Plant Site	Access Road	Gas Line		Trans	smission Line Other (explain)				
No birds observed. South pond inspection, counted 17 - 19 grebes, 6 sandpipers flying and still at pond. Located a bird mortality at east end of south pond; does not appear to grebe, appears to be sandpiper. Photographed, logged, salvaged and placed in on-site freezer. 0955: Contacted USFWS LE and informed LE of salvage. Site management to contact USFWS to determine further, if any, LE and MBTA needs. Pumping stopped, appears completed, from north pond to oil water separater to south pond, decision made by site personnel. 10:45: noted discharge sheen in south pond boom discharge area and on top of water proximate to boom. Informed site management of oil sheen. Crew vaccumed top of water in and around boom to remove sheen. 1300: counted 17 grebes, 7 sandpipers observed in south pond. Sandpipers able to fly length of pond without difficulty. Sheen no longer visible. North pond no longer being pumped through Oil water separater. Dewater being sent to a holding tank. 1430: birds appear to be floating okay. Some matting of feathers on some birds and associated preening.										
		Mov	nitor Checkli	ct						
						Comments				
	Gener	tal	Yes	No	N/A	Attach Supplemental Report if needed				
Workspace limit	ts verified and prope	erly marked?			X	N/A				
All activities wi	thin approved works	space limits?			X	N/A				
Only approved a	access roads utilized	for ingress and egress?			X	N/A				
Access road sign	ns in place?				X	N/A				
Trash and debris	s contained and disp	osed of in proper manner?			X	N/A				
Topsoil segregar	ted properly?				X	N/A				
Topsoil segregar	tion barriers maintai	ned?			X	N/A				
All crew on site	displaying hard-hat	decals from WEAP traini	ng?		X	N/A				
Speed limit obse	erved by all project p	personnel?			X	N/A				
	Biological		Yes	No	N/A	Comments Attach Supplemental Report if needed				
Work area clear	ed by BM prior to co	onstruction activity beginn	ning?		X	N/A				
•		ecies encountered? If so, r dlife incident data form.	ıote		X	N/A				
Tortoise exclusionary fence and/or ramps intact?					X	N/A				
Any nesting bird	pecies (if known) and loca	tion.		X	N/A					
Common Raven	s Present? If yes, no	ote number and activity.			X	N/A				
All ESAs and oth	ner bio-related exclus	sion areas marked and avoid	led?		X	N/A				

Previous day, 10/22/14, 3 fake owls placed at north pond. Two along north edge, one in center of pond on water depth gauge.

Genesis Solar Energy Project Biological Monitor (BM) Daily Report Date 10/22/2014											
Monitor: Eric	c German ions: _, Clouds: 0%,	•	Start Time: 8:30:00 AM Stop Time: 3:10:00 PM Attachments: Photographs:								
		Sites	Monitore	d							
Circle One:	Plant Site	Access Road	Gas Line		Trans	mission Line	Other (explain)				
Activity Log: Inspect north evap pond. Sediment layer exposed on north and south pond edges. HTF odor seems diminished, whit sediment visible, oil sheen at top of water not as obvious. Inspect south pond, 19-21 grebes counted, 7 sandpipers. Grebes appear to be foraging and searching for food. Diving common. Feathers have some matting. Some birds preening and drying. Drying of feathers seems effective on some birds. Discussed previous night moth eating observation with USFWS representative. Current approach continues to be to allow birds to remain in pond due to bird energy, possible contamination and possible unkown concerns. Oil water separator working at 10-15 ppm. No HTF odor detected in water being discharged into south pond. Birds appear to be floating, resting, foraging without difficulty.											
		Monit	tor Checklis	st							
	Genera	ıl	Yes	No	N/A		nments ntal Report if needed				
Workspace limi	ts verified and proper	ly marked?			X	N/A					
All activities wi	thin approved worksp	pace limits?			X	N/A					
Only approved a	access roads utilized f	For ingress and egress?			X	N/A					
Access road sign	ns in place?				X	N/A					
Trash and debris	s contained and dispo	sed of in proper manner?			X	N/A					
Topsoil segrega	ted properly?				X	N/A					
Topsoil segrega	tion barriers maintain	ed?			X	N/A					
All crew on site	displaying hard-hat d	lecals from WEAP training	g?		X	N/A					
Speed limit obse	erved by all project pe	ersonnel?			X	N/A					
	Biological I	ssues	Yes	No	N/A		nments ntal Report if needed				
Work area clear	red by BM prior to con	nstruction activity beginning	ng?		X	N/A					
Any desert torto species in comm	te		X	N/A							
Tortoise exclusi	onary fence and/or ra	mps intact?			X	N/A					
Any nesting bird	Any nesting birds observed? Note species (if known) and location				X	N/A					
Common Raven	ns Present? If yes, not	e number and activity.			X	N/A					
All ESAs and oth	her bio-related exclusion	on areas marked and avoided	1?		X	N/A					

		Genesis Sol	ar Energ	y Pro	oject					
Biological M	onitor (BM) Dail	y Report				Date 10/21/2014				
Monitor: <u>Eri</u> Weather Condit High Temp (°F)	ions: , Clouds: 0%	, Pcp: None v Temp (°F):	Atta	rt Time achmen tograpl	its:	0:00 AM Stop Time: 10:20:00 PM				
		Sites	s Monitore	d						
Circle One:	Plant Site	Access Road	Gas Line		Trans	mission Line Other (explain)				
Activity Log: 08:05 received call, Western Grebe at edge of south pond appears exhausted (makes small squawk, does not retreat from approach); bird captured and placed in box. Western Grebe does not appear oiled nor to have odor. Bird rehab and USFWS contacted. Per bird rehab, previous birds appeared very hungry upon release. Rehab suggested release a Colorado River. USFWS informed of decision to release at river. Bird taken to river, set into eddy, drank some water and swam away, head in normal position, appears normal. 1200 inspect OWS discharge; no oil sheen or odor noted. Counted 21-22 grebes in south evap pond.  Returned to site in evening to observe avian nighttime pond activity. Noticed feeding on moths and other insects attracted by lighting. Counted 22-23 grebes in south pond. No birds observed in north pond. No oil sheen noted at south pond.										
	Monitor Checklist									
	Gener	al	Yes	No	N/A	Comments Attach Supplemental Report if needed				
Workspace limi	ts verified and prope	rly marked?			X	N/A				
All activities wi	thin approved works	pace limits?			X	N/A				
Only approved	access roads utilized	for ingress and egress?			X	N/A				
Access road sig	ns in place?				X	N/A				
Trash and debri	s contained and dispo	osed of in proper manner?			X	N/A				
Topsoil segrega	ited properly?				X	N/A				
Topsoil segrega	tion barriers maintai	ned?			X	N/A				
All crew on site	displaying hard-hat	decals from WEAP training	ng?		X	N/A				
Speed limit obs	erved by all project p	ersonnel?			X	N/A				
	Biological	Issues	Yes	No	N/A	Comments Attach Supplemental Report if needed				
Work area clear	red by BM prior to co	onstruction activity beginn	ing?		X	N/A				
	ecies encountered? If so, ne life incident data form.	ote		X	N/A					
Tortoise exclusi	ionary fence and/or ra	amps intact?			X	N/A				
Any nesting bir	ds observed? Note sp	ecies (if known) and locat	tion.		X	N/A				
Common Raver	ns Present? If yes, no	te number and activity.			X	N/A				
All FSAs and of	her hio-related exclusi	on areas marked and avoide	ed?		Y	N/A				

Genesis Solar Energy Project Biological Monitor (BM) Daily Report  Date 10/20/2014										
Biological M	onitor (BM) D	aily Report					Date 10/2	20/2014		
Monitor: Eric	c German			Star	t Time:	8:40	0:00 AM Stop Ti	me: 4:45:00 PM		
	ions: , Clouds:	0%, Pcp: None	_		chmen					
High Temp (°F)	: <u>-</u> I	Low Temp (°F):		Phot	tograph	ıs:				
			Sites Mon	itore	d					
Circle One:	Plant Site	Access Road	Gas l	Line		Trans	mission Line	Other (explain)		
	walking with wi behavior and sw be a threat to flu technique being Salvaged four bi 10/18/14 mortali pond, they appea and informed LE south pond disch not sure why. Al Counted 22 - 23 also remains. So	ome matting of feather ngs flapping has been of imming on top of wate shing birds. Wire grid worked on with Nexter rd mortalities discoverity (1 bird 10/18/14) and to be more than 5 days of the newly found marge area, oil sheen no bout 9 of liquid remain grebes. Yesterdays come matting noted on fear dry without matting	observed when r toward pers 10'x10' used to the random and placed in front portalities. 143 of observed in in north portality of 18 probesthers, source at the results of t	ons is a to support.  ond drageezer. salvage 80 Oil V south 1 d.  onably ir	ons appulso being ort nette ined on Discoved and pwater Spond. Note the correct of the correct o	roachir ing observing ma in 10/18, ered the placed in Separate North po	ng water during past concerved. North pond being also pose hazard. Eff. 14; placed in freezer. There more mortalities with freezer. Contacted their running at 10 PPM. The pond has less sheen that the bird diving activity.	ouple of days. This ng emptied and may fective flushing  Salvaged south pond within algae of south JSFWS LE, 13:35, Some air bubbles on in past; OWS person  Western Grebe (1)		
			Monitor Cl	hecklis	t					
	Ger	neral	Wiomeor C	Yes	No	N/A		aments atal Report if needed		
Workspace limit	ts verified and pro	perly marked?				X	N/A	1		
<del>-</del>	thin approved wo					X	N/A			
Only approved a	access roads utiliz	ed for ingress and egre	ess?			X	N/A			
Access road sign	ns in place?					X	N/A			
Trash and debris	s contained and di	sposed of in proper ma	nner?			X	N/A			
Topsoil segrega	ted properly?					X	N/A			
Topsoil segregar	tion barriers main	tained?				X	N/A			
		nat decals from WEAP	training?			X	N/A			
	erved by all projec					X	N/A			
	<u>, , , , , , , , , , , , , , , , , , , </u>	cal Issues		Yes	No	N/A	Com	aments  Ital Report if needed		
Work area clear	ed by BM prior to	construction activity b	peginning?			X	N/A	-		
		species encountered? I				X	N/A			
-		vildlife incident data for	rm.				27/4			
	onary fence and/o	*	11			X	N/A			
		e species (if known) and		<u> </u>		X	N/A			
		note number and activ	•			X	N/A			
All ESAs and oth	ner bio-related excl	lusion areas marked and	avoided?			X	N/A			

Biological M	onitor (BM) Dai	<b>Genesis So</b> ly Report	lar En	ergy	y Pro	ject	Date	11/7/2014		
Monitor: <u>Eri</u> Weather Condit High Temp (°F)	ions: , Clouds: 09	6, Pcp: None w Temp (°F):		Start Time: - Stop Time: - Attachments: Photographs:						
		Site	es Moni	itored	d					
Circle One:	Plant Site	Access Road	Gas L	Line		Trans	mission Line	Other (explain)		
Activity Log:	Inspect south evaporation pond. Distressed Western Grebe captured by site personnel during flush/haze efforts. Biologist placed bird in padded box. Oiled Wildlife Care Network and International Bird Rescue contact attempts made. OWCN confirmed bringing bird to IBR. Site transporting bird to IBR, Los Angeles. One eared grebe remains in south evaporation pond, the second eared grebe from previous day reported to have flown out of pond previous day (evening), as leaving made soft line strike without apparent consequence, bird appears to have flushed successfully. Inspect north pond area, no activities, no avian findings.  Search site perimeter, North and East sides of unit 1, entire unit 2 perimeter, no avian findings.  Line with Mylar bird reppelent tape strung across north pond. One line every 30' across N S direction of pond, mylar placed at 20' intervals on line. Preparations being made to begin pumping water from south pond to north pond.									
Monitor Checklist										
	Gene	ral		Yes	No	N/A		Comments emental Report if needed		
Workspace limi	ts verified and prop	erly marked?				X	N/A	•		
All activities wi	thin approved work	space limits?				X	N/A			
Only approved	access roads utilized	for ingress and egress?				X	N/A			
Access road sig	ns in place?					X	N/A			
Trash and debri	s contained and disp	osed of in proper manner	?			X	N/A			
Topsoil segrega	ited properly?					X	N/A			
Topsoil segrega	tion barriers mainta	ined?				X	N/A			
All crew on site	displaying hard-hat	decals from WEAP train	ing?			X	N/A			
Speed limit obs	erved by all project	personnel?				X	N/A			
	Biological	Issues		Yes	No	N/A		Comments emental Report if needed		
Work area clear	red by BM prior to c	onstruction activity begin	ning?			X	N/A			
species in comn	nents and attach wile	ecies encountered? If so, dlife incident data form.	note			X	N/A			
Tortoise exclusionary fence and/or ramps intact?						X	N/A			
Any nesting birds observed? Note species (if known) and location.						X	N/A			
Common Raver	ns Present? If yes, no	ote number and activity.				X	N/A			
All ESAs and oti	her bio-related exclus	sion areas marked and avoid	ded?			X	N/A			

Biological Mo	Genesis Solar Energy Project Biological Monitor (BM) Daily Report Date 11/8/2014										
	c German ions:, Clouds: 0% : Lov	, Pcp: None v Temp (°F):	_	Start Time: - Stop Time: - Attachments: Photographs:							
		Sit	es Mon	itore	d						
Circle One:	Plant Site	Access Road	Gas l	Line		Trans	mission Line	Other (explain)			
Activity Log: Inspect north evaporation pond. No avian activity. South pond dewatering began previous evening and water is being moved to north pond. No sheen at water entry to north pond. Slight sheen, unidentified source, along east edge of pond.  Inspect south pond, one eared grebe present. Bird able to avoid flush attempts: sound cannons in use, persons in boat, mylar on line. Bird monitored for remainder of day. Swimming, diving does not appear to be in distress.  One eared grebe and one sandpiper in south evaporation pond. No bird mortalities discovered, no bird injuries observed.											
		Mo	onitor Cl	hecklis	t						
	Gener	al		Yes	No	N/A		nments ntal Report if needed			
Workspace limit	ts verified and prope	rly marked?				X	N/A	*			
All activities wi	thin approved works	pace limits?				X	N/A				
Only approved a	access roads utilized	for ingress and egress?				X	N/A				
Access road sign	ns in place?					X	N/A				
Trash and debris	s contained and dispo	osed of in proper manner	?			X	N/A				
Topsoil segregat	ted properly?					X	N/A				
Topsoil segregat	tion barriers maintai	ned?				X	N/A				
All crew on site	displaying hard-hat	decals from WEAP train	ing?			X	N/A				
Speed limit obse	erved by all project p	ersonnel?				X	N/A				
	Biological	Issues		Yes	No	N/A		nments ntal Report if needed			
Work area clear	ed by BM prior to co	onstruction activity begin	ning?			X	N/A				
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.											
Tortoise exclusi	Tortoise exclusionary fence and/or ramps intact?  X N/A										
Any nesting bird	Any nesting birds observed? Note species (if known) and location.  X N/A										
Common Raven	s Present? If yes, no	te number and activity.				X	N/A				
All ESAs and oth	ner bio-related exclusi	on areas marked and avoi	ded?			X	N/A				
Additional Not	es: Previous day,	11/7/14, western grebe d	lelivered	l alive t	o Inter	nationa	l Bird Rescue, Los Aı	ngeles.			

Biological M	onitor (BM) Dail	<b>Genesis So</b> y Report	lar E	Inergy	y Pro	oject	Date	11/9/2014		
Monitor: Eri Weather Condit High Temp (°F)	ions: , Clouds: 0%	o, Pcp: None w Temp (°F):	 	Start Time: Stop Time: Attachments: Photographs:						
		Site	es Mo	nitore	d					
Circle One:	Plant Site	Access Road	Gas	Line		Trans	mission Line	Other (explain)		
Activity Log: Discuss sheen on north pond with site management. Source may be residual on bottom and sides of pond. Pond to be filled high enough to allow booming and further assessment. Inspect north pond, no avian findings.  Inspect south pond. Two eared grebes present, one appears fresh, the second may be the same bird as previous day. Flush attempts unsuccessful. If bird is able to avoid approaches it is assumed not to be in dire state. Sheen/matting of top of water in south pond, large mat estimated at 50'x 50'. Some green and white in matting.  No bird mortalities or rescues. Two eared grebe in south pond.										
		Mo	nitor (	Checklis	t					
	Gener	al		Yes	No	N/A		Comments emental Report if needed		
Workspace limi	ts verified and prope	erly marked?				X	N/A	•		
All activities wi	thin approved works	space limits?				X	N/A			
Only approved	access roads utilized	for ingress and egress?				X	N/A			
Access road sig	ns in place?					X	N/A			
Trash and debri	s contained and disp	osed of in proper manner	?			X	N/A			
Topsoil segrega	ited properly?					X	N/A			
Topsoil segrega	tion barriers maintai	ned?				X	N/A			
All crew on site	displaying hard-hat	decals from WEAP train	ing?			X	N/A			
Speed limit obse	erved by all project p	personnel?				X	N/A			
	Biological	Issues		Yes	No	N/A		Comments emental Report if needed		
Work area clear	red by BM prior to co	onstruction activity begin	ning?			X	N/A			
Any desert torto species in comn	note			X	N/A	-				
Tortoise exclusionary fence and/or ramps intact?						X	N/A			
Any nesting birds observed? Note species (if known) and location.						X	N/A			
Common Raver	ns Present? If yes, no	te number and activity.				X	N/A			
All ESAs and ot	her bio-related exclus	ion areas marked and avoid	ded?			X	N/A			

Biological M	onitor (BM) Dai	<b>Genesis So</b> ly Report	lar En	ergy	y Pro	ject	Date	11/7/2014		
Monitor: <u>Eri</u> Weather Condit High Temp (°F)	ions: , Clouds: 09	6, Pcp: None w Temp (°F):		Atta	Time: chmen ograph	ts:	Sto	p Time:		
		Site	es Moni	itored	d					
Circle One:	Plant Site	Access Road	Gas L	Line		Trans	mission Line	Other (explain)		
Activity Log:	Inspect south evaporation pond. Distressed Western Grebe captured by site personnel during flush/haze efforts. Biologist placed bird in padded box. Oiled Wildlife Care Network and International Bird Rescue contact attempts made. OWCN confirmed bringing bird to IBR. Site transporting bird to IBR, Los Angeles. One eared grebe remains in south evaporation pond, the second eared grebe from previous day reported to have flown out of pond previous day (evening), as leaving made soft line strike without apparent consequence, bird appears to have flushed successfully. Inspect north pond area, no activities, no avian findings.  Search site perimeter, North and East sides of unit 1, entire unit 2 perimeter, no avian findings.  Line with Mylar bird reppelent tape strung across north pond. One line every 30' across N S direction of pond, mylar placed at 20' intervals on line. Preparations being made to begin pumping water from south pond to north pond.  Monitor Checklist									
Monitor Checklist										
General Yes No N/A Comments Attach Supplemental Report if needed										
Workspace limi	ts verified and prop	erly marked?				X	N/A	•		
All activities wi	thin approved work	space limits?				X	N/A			
Only approved	access roads utilized	for ingress and egress?				X	N/A			
Access road sig	ns in place?					X	N/A			
Trash and debri	s contained and disp	osed of in proper manner	?			X	N/A			
Topsoil segrega	ited properly?					X	N/A			
Topsoil segrega	tion barriers mainta	ined?				X	N/A			
All crew on site	displaying hard-hat	decals from WEAP train	ing?			X	N/A			
Speed limit obs	erved by all project	personnel?				X	N/A			
	Biological	Issues		Yes	No	N/A		Comments emental Report if needed		
Work area clear	red by BM prior to c	onstruction activity begin	ning?			X	N/A			
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.						X	N/A			
Tortoise exclusi	ionary fence and/or	ramps intact?				X	N/A			
Any nesting birds observed? Note species (if known) and location.						X	N/A			
Common Ravens Present? If yes, note number and activity.						X	N/A			
All ESAs and other bio-related exclusion areas marked and avoided?						X	N/A			

Biological Mo	onitor (BM) Dail	<b>Genesis So</b> y Report	olar E	nergy	y Pro	oject	Date 11/	8/2014		
	c German ions:, Clouds: 0% : Lov	, Pcp: None v Temp (°F):	_	Atta	t Time: chmen tograph	ts:	Stop Ti	me:		
		Sit	es Mon	itore	d					
Circle One:	Plant Site	Access Road	Gas l	Line		Trans	mission Line	Other (explain)		
Activity Log: Inspect north evaporation pond. No avian activity. South pond dewatering began previous evening and water is being moved to north pond. No sheen at water entry to north pond. Slight sheen, unidentified source, along east edge of pond.  Inspect south pond, one eared grebe present. Bird able to avoid flush attempts: sound cannons in use, persons in boat, mylar on line. Bird monitored for remainder of day. Swimming, diving does not appear to be in distress.  One eared grebe and one sandpiper in south evaporation pond. No bird mortalities discovered, no bird injuries observed.										
Monitor Checklist										
General Yes No N/A Comments Attach Supplemental Report if needed										
Workspace limit	ts verified and prope	rly marked?				X	N/A	*		
All activities wi	thin approved works	pace limits?				X	N/A			
Only approved a	access roads utilized	for ingress and egress?				X	N/A			
Access road sign	ns in place?					X	N/A			
Trash and debris	s contained and dispo	osed of in proper manner	?			X	N/A			
Topsoil segregat	ted properly?					X	N/A			
Topsoil segregat	tion barriers maintai	ned?				X	N/A			
All crew on site	displaying hard-hat	decals from WEAP train	ing?			X	N/A			
Speed limit obse	erved by all project p	ersonnel?				X	N/A			
	Biological	Issues		Yes	No	N/A		nments ntal Report if needed		
Work area clear	ed by BM prior to co	onstruction activity begin	ning?			X	N/A			
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.						X	N/A			
Tortoise exclusionary fence and/or ramps intact?						X	N/A			
Any nesting bird	ds observed? Note sp	pecies (if known) and loc	ation.			X	N/A			
Common Ravens Present? If yes, note number and activity.						X	N/A			
All ESAs and oth	ner bio-related exclusi	on areas marked and avoi	ded?			X	N/A			
Additional Not	es: Previous day,	11/7/14, western grebe	All ESAs and other bio-related exclusion areas marked and avoided?    X N/A							

Biological M	onitor (BM) Dail	<b>Genesis So</b> y Report	lar E	Inergy	y Pro	oject	Date	11/9/2014		
Monitor: Eri Weather Condit High Temp (°F)	ions: , Clouds: 0%	o, Pcp: None w Temp (°F):	 	Atta	t Time chmen tograpl	ts:	Sto	p Time:		
		Site	es Mo	nitore	d					
Circle One:	Plant Site	Access Road	Gas	Line		Trans	mission Line	Other (explain)		
Activity Log:	Discuss sheen on north pond with site management. Source may be residual on bottom and sides of pond. Pond to be filled high enough to allow booming and further assessment. Inspect north pond, no avian findings.  Inspect south pond. Two eared grebes present, one appears fresh, the second may be the same bird as previous day. Flush attempts unsuccessful. If bird is able to avoid approaches it is assumed not to be in dire state. Sheen/matting on top of water in south pond, large mat estimated at 50'x 50'. Some green and white in matting.  No bird mortalities or rescues. Two eared grebe in south pond.									
Monitor Checklist										
	Gener	al		Yes	No	N/A		Comments emental Report if needed		
Workspace limi	ts verified and prope	rly marked?				X	N/A	•		
All activities wi	thin approved works	space limits?				X	N/A			
Only approved	access roads utilized	for ingress and egress?				X	N/A			
Access road sig	ns in place?					X	N/A			
Trash and debri	s contained and disp	osed of in proper manner	?			X	N/A			
Topsoil segrega	ited properly?					X	N/A			
Topsoil segrega	tion barriers maintai	ned?				X	N/A			
All crew on site	displaying hard-hat	decals from WEAP train	ing?			X	N/A			
Speed limit obse	erved by all project p	personnel?				X	N/A			
	Biological	Issues		Yes	No	N/A		Comments emental Report if needed		
Work area clear	red by BM prior to co	onstruction activity begin	ning?			X	N/A			
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.						X	N/A	-		
Tortoise exclusionary fence and/or ramps intact?						X	N/A			
Any nesting birds observed? Note species (if known) and location.						X	N/A			
Common Raver	Common Ravens Present? If yes, note number and activity.					X	N/A			
All ESAs and ot	ded?			X	N/A					

Biological M	onitor (BM) Dai	<b>Genesis So</b> ly Report	lar En	ergy	y Pro	ject	Date	11/7/2014		
Monitor: <u>Eri</u> Weather Condit High Temp (°F)	ions: , Clouds: 09	6, Pcp: None w Temp (°F):		Atta	Time: chmen ograph	ts:	Sto	p Time:		
		Site	es Moni	itored	d					
Circle One:	Plant Site	Access Road	Gas L	Line		Trans	mission Line	Other (explain)		
Activity Log:	Inspect south evaporation pond. Distressed Western Grebe captured by site personnel during flush/haze efforts. Biologist placed bird in padded box. Oiled Wildlife Care Network and International Bird Rescue contact attempts made. OWCN confirmed bringing bird to IBR. Site transporting bird to IBR, Los Angeles. One eared grebe remains in south evaporation pond, the second eared grebe from previous day reported to have flown out of pond previous day (evening), as leaving made soft line strike without apparent consequence, bird appears to have flushed successfully. Inspect north pond area, no activities, no avian findings.  Search site perimeter, North and East sides of unit 1, entire unit 2 perimeter, no avian findings.  Line with Mylar bird reppelent tape strung across north pond. One line every 30' across N S direction of pond, mylar placed at 20' intervals on line. Preparations being made to begin pumping water from south pond to north pond.  Monitor Checklist									
Monitor Checklist										
General Yes No N/A Comments Attach Supplemental Report if needed										
Workspace limi	ts verified and prop	erly marked?				X	N/A	•		
All activities wi	thin approved work	space limits?				X	N/A			
Only approved	access roads utilized	for ingress and egress?				X	N/A			
Access road sig	ns in place?					X	N/A			
Trash and debri	s contained and disp	osed of in proper manner	?			X	N/A			
Topsoil segrega	ited properly?					X	N/A			
Topsoil segrega	tion barriers mainta	ined?				X	N/A			
All crew on site	displaying hard-hat	decals from WEAP train	ing?			X	N/A			
Speed limit obs	erved by all project	personnel?				X	N/A			
	Biological	Issues		Yes	No	N/A		Comments emental Report if needed		
Work area clear	red by BM prior to c	onstruction activity begin	ning?			X	N/A			
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.						X	N/A			
Tortoise exclusi	ionary fence and/or	ramps intact?				X	N/A			
Any nesting birds observed? Note species (if known) and location.						X	N/A			
Common Ravens Present? If yes, note number and activity.						X	N/A			
All ESAs and other bio-related exclusion areas marked and avoided?						X	N/A			

Biological Mo	onitor (BM) Dail	<b>Genesis So</b> y Report	olar E	nergy	y Pro	oject	Date 11/	8/2014		
	c German ions:, Clouds: 0% : Lov	, Pcp: None v Temp (°F):	_	Atta	t Time: chmen tograph	ts:	Stop Ti	me:		
		Sit	es Mon	itore	d					
Circle One:	Plant Site	Access Road	Gas l	Line		Trans	mission Line	Other (explain)		
Activity Log: Inspect north evaporation pond. No avian activity. South pond dewatering began previous evening and water is being moved to north pond. No sheen at water entry to north pond. Slight sheen, unidentified source, along east edge of pond.  Inspect south pond, one eared grebe present. Bird able to avoid flush attempts: sound cannons in use, persons in boat, mylar on line. Bird monitored for remainder of day. Swimming, diving does not appear to be in distress.  One eared grebe and one sandpiper in south evaporation pond. No bird mortalities discovered, no bird injuries observed.										
Monitor Checklist										
General Yes No N/A Comments Attach Supplemental Report if needed										
Workspace limit	ts verified and prope	rly marked?				X	N/A	*		
All activities wi	thin approved works	pace limits?				X	N/A			
Only approved a	access roads utilized	for ingress and egress?				X	N/A			
Access road sign	ns in place?					X	N/A			
Trash and debris	s contained and dispo	osed of in proper manner	?			X	N/A			
Topsoil segregat	ted properly?					X	N/A			
Topsoil segregat	tion barriers maintai	ned?				X	N/A			
All crew on site	displaying hard-hat	decals from WEAP train	ing?			X	N/A			
Speed limit obse	erved by all project p	ersonnel?				X	N/A			
	Biological	Issues		Yes	No	N/A		nments ntal Report if needed		
Work area clear	ed by BM prior to co	onstruction activity begin	ning?			X	N/A			
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.						X	N/A			
Tortoise exclusionary fence and/or ramps intact?						X	N/A			
Any nesting bird	ds observed? Note sp	pecies (if known) and loc	ation.			X	N/A			
Common Ravens Present? If yes, note number and activity.						X	N/A			
All ESAs and oth	ner bio-related exclusi	on areas marked and avoi	ded?			X	N/A			
Additional Not	es: Previous day,	11/7/14, western grebe	All ESAs and other bio-related exclusion areas marked and avoided?    X N/A							

Biological M	onitor (BM) Dail	<b>Genesis So</b> y Report	lar E	Inergy	y Pro	oject	Date	11/9/2014		
Monitor: Eri Weather Condit High Temp (°F)	ions: , Clouds: 0%	o, Pcp: None w Temp (°F):	 	Atta	t Time chmen tograpl	ts:	Sto	p Time:		
		Site	es Mo	nitore	d					
Circle One:	Plant Site	Access Road	Gas	Line		Trans	mission Line	Other (explain)		
Activity Log:	Discuss sheen on north pond with site management. Source may be residual on bottom and sides of pond. Pond to be filled high enough to allow booming and further assessment. Inspect north pond, no avian findings.  Inspect south pond. Two eared grebes present, one appears fresh, the second may be the same bird as previous day. Flush attempts unsuccessful. If bird is able to avoid approaches it is assumed not to be in dire state. Sheen/matting on top of water in south pond, large mat estimated at 50'x 50'. Some green and white in matting.  No bird mortalities or rescues. Two eared grebe in south pond.									
Monitor Checklist										
	Gener	al		Yes	No	N/A		Comments emental Report if needed		
Workspace limi	ts verified and prope	rly marked?				X	N/A	•		
All activities wi	thin approved works	space limits?				X	N/A			
Only approved	access roads utilized	for ingress and egress?				X	N/A			
Access road sig	ns in place?					X	N/A			
Trash and debri	s contained and disp	osed of in proper manner	?			X	N/A			
Topsoil segrega	ited properly?					X	N/A			
Topsoil segrega	tion barriers maintai	ned?				X	N/A			
All crew on site	displaying hard-hat	decals from WEAP train	ing?			X	N/A			
Speed limit obse	erved by all project p	personnel?				X	N/A			
	Biological	Issues		Yes	No	N/A		Comments emental Report if needed		
Work area clear	red by BM prior to co	onstruction activity begin	ning?			X	N/A			
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.						X	N/A	-		
Tortoise exclusionary fence and/or ramps intact?						X	N/A			
Any nesting birds observed? Note species (if known) and location.						X	N/A			
Common Raver	Common Ravens Present? If yes, note number and activity.					X	N/A			
All ESAs and ot	ded?			X	N/A					

Biological M	onitor (BM) Dail	<b>Genesis So</b> y Report	lar En	ergy	y Pro	ject	Date	10/31/2014		
Monitor: Eri Weather Condit High Temp (°F)	ions: , Clouds: 0%	o, Pcp: None w Temp (°F):		Atta	Time: chmen ograph	ts:	Stop	p Time:		
		Site	es Moni	tored	1					
Circle One:	Plant Site	Access Road	Gas L	ine		Trans	mission Line	Other (explain)		
Activity Log:	Check on eared grebe rescued from pond previous day. Grebe appears to have difficulty breathing. Status of bird discussed with International Bird Rescue. Bird brought to IBR LA Center; it did not survive transport. Phone message left with USFWS LE. Center kept the mortality.  In morning, inspect evaporation ponds. North pond being cleaned. South pond 8 grebes in pond, reports that two have been flying, avoiding wires then returning to pond. Observed two other grebes flying to the east of the south pond. Both birds flushed and flew from site in an easterly direction.									
Monitor Checklist										
	Gener	al		Yes	No	N/A		Comments emental Report if needed		
Workspace limi	ts verified and prope	erly marked?				X	N/A	•		
All activities wi	thin approved works	pace limits?				X	N/A			
Only approved	access roads utilized	for ingress and egress?				X	N/A			
Access road sig	ns in place?					X	N/A			
Trash and debri	s contained and disp	osed of in proper manner	?			X	N/A			
Topsoil segrega	ited properly?					X	N/A			
Topsoil segrega	tion barriers maintai	ned?				X	N/A			
All crew on site	displaying hard-hat	decals from WEAP traini	ing?			X	N/A			
Speed limit obs	erved by all project p	personnel?				X	N/A			
	Biological	Issues		Yes	No	N/A		Comments emental Report if needed		
Work area clear	red by BM prior to co	onstruction activity begin	ning?			X	N/A			
		ecies encountered? If so, allife incident data form.	note			X	N/A	-		
Tortoise exclusionary fence and/or ramps intact?						X	N/A			
Any nesting birds observed? Note species (if known) and location						X	N/A			
Common Ravens Present? If yes, note number and activity.						X	N/A			
All ESAs and other bio-related exclusion areas marked and avoided?						X	N/A			

Genesis Solar Energy Project									
Biological M	Ionitor (BM) Dai	ly Report				Date	11/1/2014		
Monitor: Eri	ic German		St	art Tim	e: -	Sto	pp Time: -		
Weather Condi	tions: , Clouds: 09	6, Pcp: None	At	Attachments:					
High Temp (°F	): Lo	w Temp (°F):	Ph	otograp	hs:				
		Site	es Monitor	ed					
Circle One:	Plant Site	Access Road	Gas Line		Trans	smission Line	Other (explain)		
Inspect south with assistance of bird excluder personnel; a bird mortality was located at bottom of south pond ramp. Salvaged, left message with USFWS LE (10:10), and placed in onsite freezer. A Red-necked phalorope that had been observed alive upon arrival, was observed swimming and rolled over and became deceased. Bird was salvaged, message left with USFWS LE at same time as unknown bird reported (10:10), placed in onsite freezer. 12:10 5 additional grebes flew into pond, exclusion attempts and subsequent hazing attempts were not successful. Informed site management. 13:30 gull entered pond and was successfully flushed. 13 grebes, 9 sandpipers, 1 phalarope (deceased) counted in pond. 2 mortalities salvaged from south evaporation pond. One grebe is swimming slower than other grebes. Possible odor from pond.									
Monitor Checklist									
	Gene	ral	Yes	No	N/A		Comments emental Report if needed		
Workspace lim	its verified and prope	erly marked?			X	N/A	*		
All activities w	ithin approved work	space limits?			X	N/A			
Only approved	access roads utilized	I for ingress and egress?			X	N/A			
Access road sig	ns in place?				X	N/A			
Trash and debri	is contained and disp	osed of in proper manner	?		X	N/A			
Topsoil segrega	ated properly?				X	N/A			
Topsoil segrega	ation barriers mainta	ined?			X	N/A			
All crew on site	e displaying hard-hat	decals from WEAP train	ing?		X	N/A			
Speed limit obs	erved by all project	personnel?			X	N/A			
	Biological	Issues	Yes	s No	N/A		Comments emental Report if needed		
Work area clear	red by BM prior to c	onstruction activity begin	ning?		X	N/A			
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.					X	N/A			
Tortoise exclusionary fence and/or ramps intact?					X	N/A			
Any nesting birds observed? Note species (if known) and location.					X	N/A			
Common Raver			X	N/A					
All ESAs and ot	her bio-related exclus	sion areas marked and avoi	ded?		X	N/A			

10/31/14 additional note: hazing and exclusion techniques were discussed with a CDFW contact. Items discussed included the use of amplified predator calls, sound cannons, remote control boats, mylar bird reppellant tape strung at water level, nighttime

Biological M	onitor (BM) Dail	<b>Genesis So</b> ly Report	lar En	ergy	y Pro	ject	Date	11/2/2014		
Monitor: Eri Weather Condit High Temp (°F)	tions: Windy, Clou	uds: 0%, Pcp: None w Temp (°F):		Atta	Time: chmen ograph	ts:	Stop	p Time:		
		Site	es Moni	itored	d					
Circle One:	Plant Site	Access Road	Gas L	ine		Trans	mission Line	Other (explain)		
Activity Log:	Consistent west wind 5-10 mph. Inspect north evaporation pond. No activities, no avian findings. Inspect south evaporation pond, 8 eared grebes, 7 sandpipers, 2 ruddy ducks. Successful flush of ruddy ducks. Sandpipers flushed and returned one hour later. Eared grebes seem not able to fly, eluded flush attempts by swimming; no water walking. Some sheen, unknown source noted at west edge of south evaporation pond. Throughout day grebes searching. Noted matting of back feathers, back feathers shiny, birds appear to be sitting with at least half of body out of water. One eared grebe is separating self from group, bird being monitored- cannot approach.  No mortalities or injuries discovered.									
Monitor Checklist										
	Gener	al		Yes	No	N/A		Comments emental Report if needed		
Workspace limi	ts verified and prope	erly marked?	$\neg$			X	N/A	1		
All activities wi	thin approved works	space limits?				X	N/A			
Only approved	access roads utilized	for ingress and egress?				X	N/A			
Access road sig	ns in place?					X	N/A			
Trash and debri	s contained and disp	osed of in proper manner?	?			X	N/A			
Topsoil segrega	ited properly?					X	N/A			
Topsoil segrega	tion barriers maintai	ned?				X	N/A			
All crew on site	displaying hard-hat	decals from WEAP traini	ing?			X	N/A			
Speed limit obse	erved by all project p	personnel?				X	N/A			
	Biological	Issues		Yes	No	N/A		Comments emental Report if needed		
Work area clear	red by BM prior to co	onstruction activity begins	ning?			X	N/A			
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.						X	N/A			
Tortoise exclusionary fence and/or ramps intact?						X	N/A			
Any nesting birds observed? Note species (if known) and location.						X	N/A			
Common Ravens Present? If yes, note number and activity.						X	N/A			
All ESAs and other bio-related exclusion areas marked and avoided?						X	N/A			

Biological M	onitor (BM) Dail	<b>Genesis So</b> y Report	lar En	ergy	y Pro	ject	Date	10/31/2014		
Monitor: Eri Weather Condit High Temp (°F)	ions: , Clouds: 0%	o, Pcp: None w Temp (°F):		Atta	Time: chmen ograph	ts:	Stop	p Time:		
		Site	es Moni	tored	1					
Circle One:	Plant Site	Access Road	Gas L	ine		Trans	mission Line	Other (explain)		
Activity Log:	Check on eared grebe rescued from pond previous day. Grebe appears to have difficulty breathing. Status of bird discussed with International Bird Rescue. Bird brought to IBR LA Center; it did not survive transport. Phone message left with USFWS LE. Center kept the mortality.  In morning, inspect evaporation ponds. North pond being cleaned. South pond 8 grebes in pond, reports that two have been flying, avoiding wires then returning to pond. Observed two other grebes flying to the east of the south pond. Both birds flushed and flew from site in an easterly direction.									
Monitor Checklist										
	Gener	al		Yes	No	N/A		Comments emental Report if needed		
Workspace limi	ts verified and prope	erly marked?				X	N/A	•		
All activities wi	thin approved works	pace limits?				X	N/A			
Only approved	access roads utilized	for ingress and egress?				X	N/A			
Access road sig	ns in place?					X	N/A			
Trash and debri	s contained and disp	osed of in proper manner	?			X	N/A			
Topsoil segrega	ited properly?					X	N/A			
Topsoil segrega	tion barriers maintai	ned?				X	N/A			
All crew on site	displaying hard-hat	decals from WEAP traini	ing?			X	N/A			
Speed limit obs	erved by all project p	personnel?				X	N/A			
	Biological	Issues		Yes	No	N/A		Comments emental Report if needed		
Work area clear	red by BM prior to co	onstruction activity begin	ning?			X	N/A			
		ecies encountered? If so, allife incident data form.	note			X	N/A	-		
Tortoise exclusionary fence and/or ramps intact?						X	N/A			
Any nesting birds observed? Note species (if known) and location						X	N/A			
Common Ravens Present? If yes, note number and activity.						X	N/A			
All ESAs and other bio-related exclusion areas marked and avoided?						X	N/A			

Genesis Solar Energy Project									
Biological M	Ionitor (BM) Dai	ly Report				Date	11/1/2014		
Monitor: Eri	ic German		St	art Tim	e: -	Sto	pp Time: -		
Weather Condi	tions: , Clouds: 09	6, Pcp: None	At	Attachments:					
High Temp (°F	): Lo	w Temp (°F):	Ph	otograp	hs:				
		Site	es Monitor	ed					
Circle One:	Plant Site	Access Road	Gas Line		Trans	smission Line	Other (explain)		
Inspect south with assistance of bird excluder personnel; a bird mortality was located at bottom of south pond ramp. Salvaged, left message with USFWS LE (10:10), and placed in onsite freezer. A Red-necked phalorope that had been observed alive upon arrival, was observed swimming and rolled over and became deceased. Bird was salvaged, message left with USFWS LE at same time as unknown bird reported (10:10), placed in onsite freezer. 12:10 5 additional grebes flew into pond, exclusion attempts and subsequent hazing attempts were not successful. Informed site management. 13:30 gull entered pond and was successfully flushed. 13 grebes, 9 sandpipers, 1 phalarope (deceased) counted in pond. 2 mortalities salvaged from south evaporation pond. One grebe is swimming slower than other grebes. Possible odor from pond.									
Monitor Checklist									
	Gene	ral	Yes	No	N/A		Comments emental Report if needed		
Workspace lim	its verified and prope	erly marked?			X	N/A	*		
All activities w	ithin approved work	space limits?			X	N/A			
Only approved	access roads utilized	I for ingress and egress?			X	N/A			
Access road sig	ns in place?				X	N/A			
Trash and debri	is contained and disp	osed of in proper manner	?		X	N/A			
Topsoil segrega	ated properly?				X	N/A			
Topsoil segrega	ation barriers mainta	ined?			X	N/A			
All crew on site	e displaying hard-hat	decals from WEAP train	ing?		X	N/A			
Speed limit obs	erved by all project	personnel?			X	N/A			
	Biological	Issues	Yes	s No	N/A		Comments emental Report if needed		
Work area clear	red by BM prior to c	onstruction activity begin	ning?		X	N/A			
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.					X	N/A			
Tortoise exclusionary fence and/or ramps intact?					X	N/A			
Any nesting birds observed? Note species (if known) and location.					X	N/A			
Common Raver			X	N/A					
All ESAs and ot	her bio-related exclus	sion areas marked and avoi	ded?		X	N/A			

10/31/14 additional note: hazing and exclusion techniques were discussed with a CDFW contact. Items discussed included the use of amplified predator calls, sound cannons, remote control boats, mylar bird reppellant tape strung at water level, nighttime

Biological M	onitor (BM) Dail	<b>Genesis So</b> ly Report	lar En	ergy	y Pro	ject	Date	11/2/2014		
Monitor: Eri Weather Condit High Temp (°F)	tions: Windy, Clou	uds: 0%, Pcp: None w Temp (°F):		Atta	Time: chmen ograph	ts:	Stop	p Time:		
		Site	es Moni	itored	d					
Circle One:	Plant Site	Access Road	Gas L	ine		Trans	mission Line	Other (explain)		
Activity Log:	Consistent west wind 5-10 mph. Inspect north evaporation pond. No activities, no avian findings. Inspect south evaporation pond, 8 eared grebes, 7 sandpipers, 2 ruddy ducks. Successful flush of ruddy ducks. Sandpipers flushed and returned one hour later. Eared grebes seem not able to fly, eluded flush attempts by swimming; no water walking. Some sheen, unknown source noted at west edge of south evaporation pond. Throughout day grebes searching. Noted matting of back feathers, back feathers shiny, birds appear to be sitting with at least half of body out of water. One eared grebe is separating self from group, bird being monitored- cannot approach.  No mortalities or injuries discovered.									
Monitor Checklist										
	Gener	al		Yes	No	N/A		Comments emental Report if needed		
Workspace limi	ts verified and prope	erly marked?	$\neg$			X	N/A	1		
All activities wi	thin approved works	space limits?				X	N/A			
Only approved	access roads utilized	for ingress and egress?				X	N/A			
Access road sig	ns in place?					X	N/A			
Trash and debri	s contained and disp	osed of in proper manner?	?			X	N/A			
Topsoil segrega	ited properly?					X	N/A			
Topsoil segrega	tion barriers maintai	ned?				X	N/A			
All crew on site	displaying hard-hat	decals from WEAP traini	ing?			X	N/A			
Speed limit obse	erved by all project p	personnel?				X	N/A			
	Biological	Issues		Yes	No	N/A		Comments emental Report if needed		
Work area clear	red by BM prior to co	onstruction activity begins	ning?			X	N/A			
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.						X	N/A			
Tortoise exclusionary fence and/or ramps intact?						X	N/A			
Any nesting birds observed? Note species (if known) and location.						X	N/A			
Common Ravens Present? If yes, note number and activity.						X	N/A			
All ESAs and other bio-related exclusion areas marked and avoided?						X	N/A			

Biological M	Ionitor (BM) Dail	<b>Genesis Sola</b> y Report	ar Energ	y Pro	oject	Date 10	0/14/2014	
		ds: 0%, Pcp: None w Temp (°F):	Atta	Start Time: Stop Time: Attachments: Photographs:				
		Sites	Monitore	d				
Circle One:	Plant Site	Access Road	Gas Line		Trans	mission Line	Other (explain)	
Activity Log:	yet. I met with the 1 (10/13/14, 14:00) to (10/13/14, 15:00). I already contacted p gave a tour of the e been made, the bird	the USFWS LE (10/14/14, NextEra environmental team of discuss bird mortalities in I requested current copy of per the SPUT. NextEra also evaporation ponds. At the evals were double bagged (major ion was made to leave the beginning the second of the secon	m and manage the evapora SPUT and so made attem vaporation popority of bird	gement tion po aggeste pts to conds, bases s bagge	at Blythends and contact lirds had ed), give	he per a NextEra req I spoke with onsite N cting the USFWS L BLM and CEC repre I been removed, iden en identification nur	Nextera management E. The USFWS LE was esentatives. Nextera ntification attempts had nbers, and left above	
Monitor Checklist								
General Yes No N/A Comments Attach Supplemental Report if needed								
Workspace limi	its verified and prope	erly marked?			X	N/A		
•	ithin approved works	•			X	N/A		
		for ingress and egress?			X	N/A		
Access road sig		<u>.                                     </u>			X	N/A		
	*	osed of in proper manner?			X	N/A		
Topsoil segrega		<u> </u>			X	N/A		
	ation barriers maintain	ned?			X	N/A		
		decals from WEAP training	g?		X	N/A		
	erved by all project p				X	N/A		
1	Biological	Issues	Yes	No	N/A		omments ental Report if needed	
Work area clear	red by BM prior to co	onstruction activity beginni	ng?		X	N/A		
		ecies encountered? If so, no llife incident data form.	ote		X	N/A		
Tortoise exclusi	ionary fence and/or r	amps intact?			X	N/A		
Any nesting bir	ds observed? Note sp	pecies (if known) and locati	ion.		X	N/A		
Common Raver	ns Present? If yes, no	te number and activity.			X	N/A		
All ESAs and of	her bio-related exclusi	ion areas marked and avoide	d?		X	N/A		

Genesis Solar Energy Project								
Biological M	onitor (BM) Da	ily Report					Date 10/	15/2014
Monitor: Eric	c German			Start	t Time:	8:15	5:00 AM Stop Tii	me: -
		ny, Clouds: 35%, Pcp:					1	
Weather Condit					chmen			
High Temp (°F)	): L	ow Temp (°F):		Phot	tograph	ıs:		
		Si	tes Moni	itore	d			
Circle One:	Plant Site	Access Road	Gas L	ine		Trans	mission Line	Other (explain)
v	Activity Log:  I arrived at the plant site gates at 08:15. I escorted the USFWS LE to the admin building. I inspected bird mortalities at the evaporation ponds with the USFWS LE and a Nextera representative. I then assisted the USFWS LE with the collection of mortalities from the pond edges. The majority of these birds were previously double bagged and labelled. I signed a chain of custody sheet as a witness, Nextera signed as handing over the bird mortalities, and the USFWS LE signed as receiving the bird mortalities. The BLM LE arrived and discussed activities with the USFWS LE. I participated in a phone discussion at 13:38 with the BLM representative regarding the visual state of the ponds and the bird findings. I returned to the admin building and tallied the findings. In total, 32 mortalities occurred in the North pond and 20 mortalities occurred in the south pond. The birds collected were 80% to 90% water birds, including grebes (1 western likely both horned and eared), American coot, teal, ducks, sandpipers, common loon, yellow headed blackbird, and avocet. Some birds were difficult to identify due to bagging and decay.							
Monitor Checklist								
General Yes No N/A Comments Attach Supplemental Report if needed								
Workspace limi	ts verified and proj	perly marked?				X	N/A	
	thin approved worl					X	N/A	
	* *	ed for ingress and egress?				X	N/A	
Access road sign						X	N/A	
		posed of in proper manne	er?			X	N/A	
Topsoil segrega						X	N/A	
	tion barriers mainta	ained?				X	N/A	
		at decals from WEAP train	ning?			X	N/A	
	erved by all project		Ü			X	N/A	
	Biologica			Yes	No	N/A	Com	nments atal Report if needed
Work area clear	red by BM prior to	construction activity begi	nning?			X	N/A	•
		pecies encountered? If so ldlife incident data form.	, note			X	N/A	
Tortoise exclusi	onary fence and/or	ramps intact?				X	N/A	
Any nesting bire	ds observed? Note	species (if known) and lo	cation.			X	N/A	
Common Raver	ns Present? If yes, r	note number and activity.				X	N/A	
All ESAs and otl	her bio-related exclu	ision areas marked and avo	oided?			X	N/A	

					• .		
Biological M	onitor (BM) Dai	Genesis Solar I ly Report	Energ	y Pro	oject	Date	10/16/2014
Monitor: Eri		1	Start Time: - Stop Time: -				on Time: -
		uds: 0%, Pcp: None	Attachments:				
High Temp (°F)		w Temp (°F): -	Photographs:				
		Sites Mo	onitore	d .			
Circle One:	Plant Site		s Line	-	Trans	mission Line	Other (explain)
attempts were unsuccessful. I instructed Nextera staff to standby until the USFWS LE was contacted. At 07:53, I contacted the Nextera staff following a discussion with the USFWS LE. The USFWS LE instructed Nextera to capture and rinse head and eyes. I passed these instructions to Nextera staff. At 08:50, the bird, american coot, was captured and given to me. I rinsed the bird and took it to the Blythe rehab center. At the Blythe rehab center, the bird was washed with dish soap and rinsed. The bird was then left in warm location to dry. At 17:44, I received message that the coot was released and flew away. I was informed by the USFWS LE that future birds were to be wiped, not rinsed, by the first responder per the instructions of MBTA personnel.  During afternoon inspected ponds, no new birds were found. No birds were in the north pond. Grebes were in the south pond. The oil water separator was in place. Water from the north pond was being separated into south pond and oil was separated into containers for removal. The oil and water was separated at 8 ppm. Nextera site personnel then asked me to help answer questions from the BLM investigator. I answered the questions. I inspected the ponds again and left site.							
		Monitor	Checklis	t			
	Gene		Yes	No	N/A		Comments emental Report if needed
Workspace limi	ts verified and prop	erly marked?			X	N/A	•
All activities wi	thin approved work	space limits?			X	N/A	
Only approved	access roads utilized	l for ingress and egress?			X	N/A	
Access road sig	ns in place?				X	N/A	
		posed of in proper manner?			X	N/A	
Topsoil segrega					X	N/A	
	tion barriers mainta	ined?			X	N/A	
		t decals from WEAP training?			X	N/A	
	erved by all project				X	N/A	
1	Biologica	•	Yes	No	N/A		Comments emental Report if needed
Work area clear	red by BM prior to c	construction activity beginning?			X	N/A	
		pecies encountered? If so, note dlife incident data form.			X	N/A	
Tortoise exclusi	ionary fence and/or	ramps intact?			X	N/A	
Any nesting bir	ds observed? Note s	pecies (if known) and location.			X	N/A	
Common Raver	ns Present? If yes, no	ote number and activity.			X	N/A	
All ESAs and ot			X	N/A			

Genesis Solar Energy Project							
Biological Monitor (BM) Daily Report				Date 10/17/2014			
Monitor: Eric German	Start Time: - Stop Time: -						
Partly Sunny, Clouds: 25%, Pcp:				<u> </u>			
Weather Conditions: None		chmen					
High Temp (°F): Low Temp (°F):	Phot	tograph	ns:	_			
Sites Mon	itore	d					
Circle One: Plant Site Access Road Gas I	Line		Trans	mission Line Other (explain)			
Activity Log: I arrived on site. No birds were observed in the south unit 2 sedimentation pond (OTF). I spoke with site management and was informed of an upcoming 14:00 agency phone meeting. At 08:40, I inspected the evaporation ponds. No birds were observed in the north evaporation pond. Birds were in the south evaporation pond. I observed a western grebe, a ruddy duck, and an eared grebe. I noted a boom placed around water ingress into south pond location. I had discussed using boom to capture a window of surface water for viewing previous day with management. I observed no oil sheen at the south pond. I observed no excessive preening. The birds appear to be floating normally. At 09:00, I observed a revan eating crickets at west side of the evaporation ponds. At 12:45, I observed the oil water separator at 10 ppm. I discussed this with site management, reminding them the goal is 8 ppm and there are expected fluctuations. A data recorder will to be installed. If the level reaches 20 ppm, the plan is to stop pumping to the south pond. Bird behavior in south pond appears normal, i.e. swimming, floating, and eating.							
Monitor Checklist							
General Yes No N/A Comments Attach Supplemental Report if needed							
Workspace limits verified and properly marked?			X	N/A			
All activities within approved workspace limits?			X	N/A			
Only approved access roads utilized for ingress and egress?			X	N/A			
Access road signs in place?			X	N/A			
Trash and debris contained and disposed of in proper manner?			X	N/A			
Topsoil segregated properly?			X	N/A			
Topsoil segregation barriers maintained?			X	N/A			
All crew on site displaying hard-hat decals from WEAP training?			X	N/A			
Speed limit observed by all project personnel?			X	N/A			
Biological Issues	Yes	No	N/A	Comments Attach Supplemental Report if needed			
Work area cleared by BM prior to construction activity beginning?			X	N/A			
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.			X	N/A			
Tortoise exclusionary fence and/or ramps intact?			X	N/A			
Any nesting birds observed? Note species (if known) and location.			X	N/A			
Common Ravens Present? If yes, note number and activity.			X	N/A			
All ESAs and other bio-related exclusion areas marked and avoided?			X	N/A			
Additional Notes: Ruddy duck, western grebe, eared grebe, great	tailed s	rackle	raven				

#### **Genesis Solar Energy Project** Biological Monitor (BM) Daily Report Date 10/18/2014 Start Time: 8:35:00 AM Stop Time: -Monitor: Eric German Partly Sunny, Clouds: 15%, Pcp: Weather Conditions: None Attachments: High Temp (°F): -Low Temp (°F): -Photographs: **Sites Monitored** Circle One: **Plant Site Access Road Gas Line Transmission Line** Other (explain) **Activity Log:** I arrived onsite at 08:35. I was informed of 4 bird mortalities in the north pond and 1 bird mortality in the south pond. The south pond mortality was floating at similar height above water as live birds. I contacted site management to get additional hazing support. I inspected the mortalities, left them in place, and left a phone message for the USFWS LE. I observed hazing grebes dive and do not fly away. I inspected the evaporation ponds throughout day. The area of water ingress from the oil water separator into south pond has bubbles and oil sheen was not observed. I gathered water from the boomed area and performed a sniff test. No HTF odor was noted in south pond water or oil water separator ingress area. I noted a HTF layer sheen and odor at the north evaporation pond. I discussed a log approach for bird findings. At 10:35, a single female ruddy duck flew into the evaporation pond area. I rattled the netting wires above north pond and made myself visible on the ramp. The duck flew to south and landed. The duck, prior to landing, flew 10+ circles above the north evaporation pond. It appeared to brake and then flew to the south evaporation pond. It flew 5+ circles, seemed confused by the netting wires, and then committed to landing in the south evaporation pond. At 12:00, two additional personnel arrived to be stationed at the evaporation ponds for bird exclusion. At 13:00, I inspect the oil water separator and observed 3 ppm. Bird activity now appears normal, birds appear to be floating normally, and birds do not appear covered with oil. I noted a possible increase in foraging activities by grebes within algae areas. I observed some matting of feathers. I then noted preening and resting. The feathers appear to be drying. The grebes are returning to feeding in the algae. The Ruddy ducks do not have wet feathers. The KVAC is removing the north evaporation pond sheen. **Monitor Checklist Comments** General Yes No N/A Attach Supplemental Report if needed Workspace limits verified and properly marked? X N/A All activities within approved workspace limits? X N/A Only approved access roads utilized for ingress and egress? N/A X Access road signs in place? X N/A X N/A Trash and debris contained and disposed of in proper manner? Topsoil segregated properly? X N/A Topsoil segregation barriers maintained? X N/A All crew on site displaying hard-hat decals from WEAP training? X N/A Speed limit observed by all project personnel? X N/A Comments **Biological Issues** Yes No N/A Attach Supplemental Report if needed Work area cleared by BM prior to construction activity beginning? X N/A Any desert tortoise or other T&E species encountered? If so, note N/A X species in comments and attach wildlife incident data form. Tortoise exclusionary fence and/or ramps intact? X N/A Any nesting birds observed? Note species (if known) and location. X N/A X N/A Common Ravens Present? If yes, note number and activity. N/A All ESAs and other bio-related exclusion areas marked and avoided? X

Additional Notes:

Genesis Solar Energy Project Biological Monitor (BM) Daily Report  Date 10/19/2014								
		ту кероп	_					
-	c German	1 00/ D N		t Time:		Stop Ti	me:	
Weather Condit		ids: 0%, Pcp: None		chmen				
High Temp (°F)	): <u>-</u> L0	w Temp (°F):		tograpl	15:			
Sites Monitored								
Circle One:	Plant Site	Access Road Gas	Line		Trans	mission Line	Other (explain)	
Activity Log:	HTF odor, a visible pond, I observed re remain. At 09:15, appears to have be with the USFWS I appears to be attempersonnel have ind to have HTF on su pond. The grebe is cannot process hea grebe. At 13:15, I HTF odor was determortalities following.	poration ponds in the morning. Note oil sheen, and spread drops on staddy ducks were no longer present an unidentified bird mortality was en partially submerged, looking I.E. I discussed the mortality with apting to dry. I discussed method icated visual sheen and odor are reface at 10:45. There is noticeab still drying. At 11:20, I contacted vily HTF oiled birds due to the scaptured the grebe and it does not exted. At 14:00, I spoke with the ring photo documentation. The birds of bring birds in dire condition to VS LE.	surface a nt, appro- is locate ike alga site ma s of dete the best le algae d the bir mell. At ot smell USFWS ds are to	at the repairment of the clum nagement indication layers at 11:40 oiled. It is be played to be p	north ever ely 18 courth ever ap for ment. I of HTF wittors. The sheen. The b center b, I left I took the USF acced in	aporation pond. At the pared Grebes, 1 wester aporation pond. It was anny days. At 09:38, I beserved a grebe with futhin pond with site mane south evaporation parents of the sheen is different to regarding the drying message with the USF the grebe to rehab. At the WS LE requested salvages and placed in a first programment of the sheet of the	e south evaporation in grebe, and 8 peeps grebe size and left phone message feathers fluffed; it anagement. Site ond does not appear than north evaporation grebe. The center FWS LE regarding the he rehab center, some wage of bird freezer. The plant is	
Monitor Checklist								
	Gener		Yes	No	N/A		iments	
W. 1 1 1						**	ntal Report if needed	
	ts verified and property	•			X	N/A N/A		
	ithin approved works	for ingress and egress?			X	N/A N/A		
, ,,		for ingress and egress?			X	N/A N/A		
Access road sig	-				X	N/A		
	1	osed of in proper manner?			X			
Topsoil segrega		mad9			X	N/A N/A		
	tion barriers maintai							
		decals from WEAP training?			X	N/A		
Speed Illilit obs	erved by all project p	personner?			X	N/A	ments	
	Biological	Issues	Yes	No	N/A		ntal Report if needed	
Work area clear	ed by BM prior to c	onstruction activity beginning?			X	N/A		
		ecies encountered? If so, note			X	N/A		
-		llife incident data form.						
Tortoise exclusi	ionary fence and/or i	ramps intact?			X	N/A		
		pecies (if known) and location.			X	N/A		
Common Raver	ns Present? If yes, no	te number and activity.			X	N/A		
All ESAs and ot	her bio-related exclus	ion areas marked and avoided?			X	N/A		

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**Additional Notes:** 

Genesis Solar Energy Project								
Biological Monitor (BM) Daily Report				Date 11/28/2014				
Monitor: Ron Walker  Weather Conditions: Sunny, Clouds: 0%, Pcp: None  High Temp (°F): 77 Low Temp (°F): 56	Start Time: 8:00:00 AM Stop Time: 4:00:00 PM Attachments: Photographs:							
Sites M	Ionitore	d						
Circle One: Plant Site Access Road G	Gas Line		Trans	mission Line Other (explain)				
Activity Log: 0800 arrived on site, signed in at office. 0800-1600 conducted avian monitoring at evapo	ration pond	ds.						
Monitor Checklist								
General	Yes	No	N/A	Comments Attach Supplemental Report if needed				
Workspace limits verified and properly marked?			X	N/A				
All activities within approved workspace limits?			X	N/A				
Only approved access roads utilized for ingress and egress?			X	N/A				
Access road signs in place?			X	N/A				
Trash and debris contained and disposed of in proper manner?			X	N/A				
Topsoil segregated properly?			X	N/A				
Topsoil segregation barriers maintained?			X	N/A				
All crew on site displaying hard-hat decals from WEAP training?			X	N/A				
Speed limit observed by all project personnel?			X	N/A				
Biological Issues	Yes	No	N/A	Comments Attach Supplemental Report if needed				
Work area cleared by BM prior to construction activity beginning	??		X	N/A				
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.		X		N/A				
Tortoise exclusionary fence and/or ramps intact?			X	N/A				
Any nesting birds observed? Note species (if known) and location	1.	X		N/A				
Common Ravens Present? If yes, note number and activity.	X			One raven observed flying over south pond to the east				
All ESAs and other bio-related exclusion areas marked and avoided?			X	N/A				

0821, observed western grebe on north pond, didn't flush away, bird healthly and exhibited normal behavior. Other species observed; American kestrel, rock dove, black phoebe, rock wren, raven.

Genesis Solar Energy Project								
Biological Monitor (BM) Daily Report				Date 11/29/2014				
Monitor: Ron Walker   Weather Conditions: Sunny, Clouds: 0%, Pcp: None   High Temp (°F): 77   Low Temp (°F): 45	Start Time: 7:00:00 AM Stop Time: 3:07:00 PM Attachments: Photographs:							
Sites M	Ionitore	d						
Circle One: Plant Site Access Road G	Gas Line		Trans	mission Line Other (explain)				
Activity Log: 0700 arrived on site, signed in at office. 0800-1507 conducted avian monitoring at evapo	ration pond	ds.						
Monitor Checklist								
General	Yes	No	N/A	Comments Attach Supplemental Report if needed				
Workspace limits verified and properly marked?			X	N/A				
All activities within approved workspace limits?			X	N/A				
Only approved access roads utilized for ingress and egress?			X	N/A				
Access road signs in place?			X	N/A				
Trash and debris contained and disposed of in proper manner?			X	N/A				
Topsoil segregated properly?			X	N/A				
Topsoil segregation barriers maintained?			X	N/A				
All crew on site displaying hard-hat decals from WEAP training?			X	N/A				
Speed limit observed by all project personnel?			X	N/A				
Biological Issues	Yes	No	N/A	Comments Attach Supplemental Report if needed				
Work area cleared by BM prior to construction activity beginning	;?		X	N/A				
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.		X		N/A				
Tortoise exclusionary fence and/or ramps intact?			X	N/A				
Any nesting birds observed? Note species (if known) and location	1.	X		N/A				
Common Ravens Present? If yes, note number and activity.	X			One raven observed flying over north pond to the south				
All ESAs and other bio-related exclusion areas marked and avoided?			X	N/A				

0715 observed western grebe on north pond, didn't flush away, bird healthly and exhibited normal behavior. Other species observed; American kestrel, loggerhead shrike, rock wren, raven, western grebe.

0 . 01			• ,				
Genesis Solar Biological Monitor (BM) Daily Report	r Energ	y Pro	oject	Date 11/30/2014			
<u> </u>	ī						
Monitor: Ron Walker		Start Time: 7:00:00 AM Stop Time: 3:10:00 PM					
Weather Conditions: Windy, Clouds: 0%, Pcp: None		chmen					
High Temp (°F): Low Temp (°F):48	•	tograpl	ns:				
Sites I	Monitore	d					
Circle One: Plant Site Access Road	Gas Line		Trans	mission Line Other (explain)			
Activity Log: 0700 arrived on site, signed in at office. 0800-1510 conducted avian monitoring at evaporation of the signed in at office.	oration pond	ds.					
Monitor Checklist							
General	Yes	No	N/A	Comments Attach Supplemental Report if needed			
Workspace limits verified and properly marked?			X	N/A			
All activities within approved workspace limits?			X	N/A			
Only approved access roads utilized for ingress and egress?			X	N/A			
Access road signs in place?			X	N/A			
Trash and debris contained and disposed of in proper manner?			X	N/A			
Topsoil segregated properly?			X	N/A			
Topsoil segregation barriers maintained?			X	N/A			
All crew on site displaying hard-hat decals from WEAP training	?		X	N/A			
Speed limit observed by all project personnel?			X	N/A			
Biological Issues	Yes	No	N/A	Comments Attach Supplemental Report if needed			
Work area cleared by BM prior to construction activity beginning	g?		X	N/A			
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.	2	X		N/A			
Tortoise exclusionary fence and/or ramps intact?			X	N/A			
Any nesting birds observed? Note species (if known) and location	n.	X		N/A			
Common Ravens Present? If yes, note number and activity.	X			Two ravens observed flying over south pond to the south			
All ESAs and other bio-related exclusion areas marked and avoided?	?		X	N/A			

0715 observed western grebe on north pond, didn't flush away, bird healthly and exhibited normal behavior. Other species observed; American kestrel, loggerhead shrike, rock wren, rock dove, raven, mallard, western grebe.

Genesis Solar Energy Project									
Biological Monitor (BM) Daily Report		,		Date 12/1/2014					
Monitor: Ron Walker	Star	t Time:	: 7:00	0:00 AM Stop Time: 3:00:00 PM					
Partly Sunny, Clouds: 50%, Pcp:	_   .								
Weather Conditions: None  High Temp (°F): 73 Low Temp (°F): 52	_	chmen tograpl							
Sites Monitored									
Circle One: Plant Site Access Road	Gas Line		Trans	mission Line Other (explain)					
Activity Log: 0700 arrived on site, signed in at office. 0800-1500 conducted avian monitoring at evaluation of the signed in at office.	aporation pond	ds.							
Mon	itor Checklis	t							
General	Yes	No	N/A	Comments Attach Supplemental Report if needed					
Workspace limits verified and properly marked?			X	N/A					
All activities within approved workspace limits?			X	N/A					
Only approved access roads utilized for ingress and egress?			X	N/A					
Access road signs in place?			X	N/A					
Trash and debris contained and disposed of in proper manner?			X	N/A					
Topsoil segregated properly?			X	N/A					
Topsoil segregation barriers maintained?			X	N/A					
All crew on site displaying hard-hat decals from WEAP training	ng?		X	N/A					
Speed limit observed by all project personnel?			X	N/A					
Biological Issues	Yes	No	N/A	Comments Attach Supplemental Report if needed					
Work area cleared by BM prior to construction activity beginn	ing?		X	N/A					
Any desert tortoise or other T&E species encountered? If so, n species in comments and attach wildlife incident data form.	ote	X		N/A					
Tortoise exclusionary fence and/or ramps intact?			X	N/A					
Any nesting birds observed? Note species (if known) and local	tion.	X		N/A					
Common Ravens Present? If yes, note number and activity.		X		N/A					

N/A

0710 did not observe western grebe on north or south ponds. Other species observed; American kestrel,

**Additional Notes:** 

All ESAs and other bio-related exclusion areas marked and avoided?

loggerhead shrike, rock wren.

Genesis Solar Energy Project								
Biological Moni	tor (BM) Dail	y Report				Date 12/	/4/2014	
Monitor: Eric Ge	erman		Star	t Time	: -	Stop Ti	ime: -	
		, Clouds: 50%, Pcp:						
Weather Conditions	w Temp (°F): -		chmen					
High Temp (°F):	- LOV		•	tograpl -	15.			
Sites Monitored								
Circle One:	Plant Site	Access Road Ga	s Line		Trans	mission Line	Other (explain)	
pond. Inspect south evap pond. No avian findings.  Monitor ponds throughout day. 07:50 1 cattle egret arrived at evap ponds. Informed site of bird presence and that sound cannons are not working. 0825 egret flew and landed in south evap pond. 08:30 egret flushed with assistance from site personnel. 10:30 an eared grebe landed in the north pond. 11:10 one sound cannon at north pond turned on. 2 eared grebes arrived at south pond. Did not flush. End of day: 3 ruddy ducks, and 2 eared grebes in north pond. South pond noted to have oil bubbles on top of residual water. South pond being cleaned.  Day total: zero avian mortalities and zero avian injuries observed.								
Monitor Checklist								
General Yes No N/A Comments Attach Supplemental Report if needed								
Workspace limits v	erified and prope	1 1 10			v	NT/A	-	
All activities within approved workspace limits?					X	N/A		
All activities within		•			X	N/A N/A		
	approved works	•						
	approved works	pace limits?			X	N/A		
Only approved acce Access road signs in	approved works ess roads utilized n place?	pace limits?			X X	N/A N/A		
Only approved acce Access road signs in	approved works ess roads utilized n place? intained and dispo	pace limits? for ingress and egress?			X X X	N/A N/A N/A		
Only approved acce Access road signs in Trash and debris co	approved works ess roads utilized in place? entained and dispo properly?	pace limits? for ingress and egress?  osed of in proper manner?			X X X	N/A N/A N/A N/A		
Only approved acce Access road signs in Trash and debris co Topsoil segregated Topsoil segregation	approved works ess roads utilized n place? ontained and disport properly? barriers maintain	pace limits? for ingress and egress?  osed of in proper manner?			X X X X	N/A N/A N/A N/A N/A		
Only approved acce Access road signs in Trash and debris co Topsoil segregated Topsoil segregation	approved works ess roads utilized n place? entained and disportained and disportained and disportance in properly? I barriers maintain playing hard-hat	pace limits? for ingress and egress?  osed of in proper manner?  ned? decals from WEAP training?			X X X X X	N/A N/A N/A N/A N/A N/A		
Only approved acce Access road signs in Trash and debris co Topsoil segregated Topsoil segregation All crew on site dis	approved works ess roads utilized n place? entained and disportained and disportained and disportance in properly? I barriers maintain playing hard-hat	pace limits? for ingress and egress?  osed of in proper manner?  ned? decals from WEAP training? personnel?	Yes	No	X X X X X X	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	nments ntal Report if needed	
Only approved acce Access road signs in Trash and debris co Topsoil segregated Topsoil segregation All crew on site dis Speed limit observe	approved works ess roads utilized n place? entained and disport properly? a barriers maintain playing hard-hat ed by all project p	pace limits? for ingress and egress?  osed of in proper manner?  ned? decals from WEAP training? personnel?	Yes	No	X X X X X X X	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A		
Only approved acce Access road signs in Trash and debris co Topsoil segregated Topsoil segregation All crew on site dis Speed limit observe  Work area cleared b Any desert tortoise	approved works ess roads utilized n place? ontained and disport properly? a barriers maintain playing hard-hat ad by all project p Biological by BM prior to co or other T&E spe	pace limits? for ingress and egress?  osed of in proper manner?  ned? decals from WEAP training? personnel?  Issues	Yes	No	X X X X X X X X N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A		
Only approved acce Access road signs in Trash and debris co Topsoil segregated Topsoil segregation All crew on site dis Speed limit observe  Work area cleared b Any desert tortoise	approved works ess roads utilized n place? ontained and disport properly? a barriers maintain playing hard-hat ed by all project p  Biological by BM prior to co or other T&E spects and attach wild	pace limits? for ingress and egress?  osed of in proper manner?  ned? decals from WEAP training? bersonnel?  Issues onstruction activity beginning? ecies encountered? If so, note ellife incident data form.	Yes	No	X X X X X X X X X	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A		
Only approved acce Access road signs in Trash and debris co Topsoil segregated Topsoil segregation All crew on site dis Speed limit observe  Work area cleared b Any desert tortoise species in comment Tortoise exclusiona	approved works ess roads utilized n place? ntained and disper properly? a barriers maintain playing hard-hat ed by all project p Biological by BM prior to co or other T&E spects and attach wild ry fence and/or re-	pace limits? for ingress and egress?  osed of in proper manner?  ned? decals from WEAP training? bersonnel?  Issues onstruction activity beginning? ecies encountered? If so, note ellife incident data form.	Yes	No	X X X X X X X X X X	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A		
Only approved acce Access road signs in Trash and debris co Topsoil segregated Topsoil segregation All crew on site dis Speed limit observe  Work area cleared to Any desert tortoise species in comment Tortoise exclusiona Any nesting birds of	approved works ess roads utilized n place? ontained and disport properly? a barriers maintain playing hard-hat ed by all project p  Biological by BM prior to co or other T&E spe s and attach wild ry fence and/or re bserved? Note sp	pace limits? for ingress and egress?  osed of in proper manner?  ned? decals from WEAP training? bersonnel?  Issues onstruction activity beginning? ecies encountered? If so, note life incident data form. amps intact?	Yes	No	X X X X X X X X X X X X X X X X X X	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A		

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**Additional Notes:** 

Genesis Solar Energy Project								
Biological M	onitor (BM) Dail	y Report					Date 12/5/2014	
Monitor: Eric German  Weather Conditions: Cloudy, Clouds: 75%, Pcp: None  High Temp (°F): Low Temp (°F):				Start Time: Stop Time: Attachments: Photographs:				
		Sites	s Monito	orec	ì			
Circle One:	Plant Site	Access Road	Gas Lin	ıe		Trans	smission Line Other (explain)	
Activity Log: Inspect North evaporation pond. 6 eared grebes. 1 ruddy duck swimming in pond. Inspect south pond. No avian findings, pond being cleaned and drained.  Monitor evaporation ponds. 3 additional grebes landed in north evap pond throughout day. No waterproofing issues observed. End of day: 9 eared grebes, and 1 ruddy duck in north pond. No avian activity in south ponds, residual water with oil sheen and particulates being removed.  End of monitoring by DB.  Contacted by USFWS for update at end of day.  Day Total: zero avian mortalities and zero avian injuries observed.							}	
Monitor Checklist								
General Yes No N/A Comments Attach Supplemental Report if needed								
Workspace limi	ts verified and proper	rly marked?				X	N/A	
-	thin approved works	•				X	N/A	
Only approved a	access roads utilized	for ingress and egress?				X	N/A	
Access road sig	ns in place?					X	N/A	
Trash and debri	s contained and dispo	osed of in proper manner?				X	N/A	
Topsoil segrega	ted properly?	• •				X	N/A	
Topsoil segrega	tion barriers maintair	ned?				X	N/A	
All crew on site	displaying hard-hat	decals from WEAP trainir	ng?			X	N/A	
Speed limit obse	erved by all project p	ersonnel?				X	N/A	
	Biological	Issues	Y	es	No	N/A	Comments Attach Supplemental Report if needed	
Work area clear	ed by BM prior to co	nstruction activity beginn	ing?			X	N/A	
		cies encountered? If so, n life incident data form.	ote			X	N/A	
Tortoise exclusi	onary fence and/or ra	amps intact?				X	N/A	
Any nesting bird	ds observed? Note sp	ecies (if known) and locat	tion.			X	N/A	
Common Raver	s Present? If yes, not	te number and activity.				X	N/A	
All ESAs and oth	ner bio-related exclusi	on areas marked and avoide	ed?			X	N/A	

Biological M	Ionitor (BM) Dai	<b>Genesis Solar</b> ly Report	Energ	y Pro	oject	Date	10/24/2014	
Monitor: Eri	c German		Start Time: 8:10:00 AM Stop Time: -					
		6, Pcp: None		chmen		·		
High Temp (°F		w Temp (°F):	Pho	tograpl	hs:			
		Sites N	Ionitore	d				
Circle One:	Plant Site	Access Road G	as Line		Trans	mission Line	Other (explain)	
	personnel reported bird mortality in south evap pond. Upon removal and inspection the object turned out to be trash, there was not a bird mortality seen or recovered.  Birds appear to be floating, swimming, diving without difficulty. Feathers have some matting following diving. Feathers seem to be drying.  Discussed evap pond monitoring and avian exclusion with site management. Once north pond is clean, extra exclusion help to end. If possible, birds in south pond will be flushed once north pond is clean. Flushing may include owl decoys and the use of sound cannons. Also discussed removal of netting still present in south pond. Some flight activity observed by grebes in south pond. 2 birds flying about 3 feet above water. May be associated with increased wind 4-6 mph.  Counted 16-17 grebes, 5 sandpipers. CDFW representatives inspected ponds and discussed situation with site management. One sandpiper seen leaving site after making a fly over survey of east end of north pond. Bird excluded by me striking netting grid wires.							
		Monito	- Chaaldia	.4				
	Gener		r Checklis Yes	No	N/A		Comments	
Workengee limi	its verified and prope		2 65	110	X	Attach Supple	emental Report if needed	
-	ithin approved work	•			X	N/A		
		I for ingress and egress?			X	N/A		
Access road sig		Tor fingress and egress:			X	N/A		
	-	oosed of in proper manner?			X	N/A		
Topsoil segrega		osed of in proper manner:			X	N/A		
1 00	ation barriers maintain	ined?			X	N/A		
		decals from WEAP training?			X	N/A		
	erved by all project	<u> </u>			X	N/A		
speed mint oos	Biological		Yes	No	N/A		Comments emental Report if needed	
Work area clear	red by BM prior to c	onstruction activity beginning	?		X	N/A	•	
Any desert torto	oise or other T&E sp	pecies encountered? If so, note dlife incident data form.			X	N/A		
Tortoise exclus	ionary fence and/or i	ramps intact?			X	N/A		
Any nesting bir	ds observed? Note s	pecies (if known) and location	١.		X	N/A		
Common Raver	ns Present? If yes, no	ote number and activity.			X	N/A		
All ESAs and other bio-related exclusion areas marked and avoided?					X	N/A		

Biological M	onitor (BM) Dail	<b>Genesis Sol</b> ly Report	ar Energ	y Pr	oject	Date 1	10/25/2014			
	ions: , Clouds: 10	%, Pcp: None w Temp (°F):	Att	Start Time: Stop Time: Attachments: Photographs:						
Sites Monitored										
Circle One:	Plant Site	Access Road	Gas Line		Trans	mission Line	Other (explain)			
Activity Log:	Inspect north pond. Unidentified passerine excluded from pond, flew away from ponds. North pond has majority of water removed. No dewatering or sludge removal occuring. Pumps and hoses are stationed near oil water separaters. Some moving and piling of sludge occured prior day, 10/24, creating dry areas at south side of north pond area. Throughout day flycacher and say's phoebe, landing on wire grid flushed and returning. South pond inspection, counted 16 grebes, 4 sandpipers. No water proofing issues observed. Some matting of feathers following diving, feathers appear to be drying. 1430 counting 14 grebes, 4 Sandpipers. No grebes noted to be in distress, excessively preening, with matted feathers or swimming abnormally throughout day. No injured birds or mortalities removed from either evap pond during day.									
		Mon	itor Checkli	st						
	General Yes No N/A Comments Attach Supplemental Report if needed									
Workspace limi	ts verified and prope	erly marked?			X	N/A	· · · · · · · · · · · · · · · · · · ·			
All activities wi	thin approved works	space limits?			X	N/A				
Only approved	access roads utilized	for ingress and egress?			X	N/A				
Access road sig	ns in place?				X	N/A				
Trash and debri	s contained and disp	osed of in proper manner?			X	N/A				
Topsoil segrega	ited properly?				X	N/A				
Topsoil segrega	tion barriers maintai	ned?			X	N/A				
All crew on site	displaying hard-hat	decals from WEAP training	ıg?		X	N/A				
Speed limit obse	erved by all project p	personnel?			X	N/A				
	Biological	Issues	Yes	No	N/A		Comments mental Report if needed			
Work area clear	red by BM prior to co	onstruction activity beginni	ing?		X	N/A				
		ecies encountered? If so, no llife incident data form.	ote		X	N/A				
Tortoise exclusi	ionary fence and/or r	amps intact?			X	N/A				
Any nesting bire	ds observed? Note sp	pecies (if known) and locat	ion.		X	N/A				
Common Raver	ns Present? If yes, no	te number and activity.			X	N/A				
All ESAs and other bio-related exclusion areas marked and avoided?					X	N/A				

			Solar E	nerg	y Pro	ject			
Biological Mo	onitor (BM) Da	aily Report					Date 10/	26/2014	
Monitor: Eric	e German			Star	t Time:	: <u>-</u>	Stop Ti	me:	
		20%, Pcp: None			chmen				
High Temp (°F)	: <u>-</u> L	Low Temp (°F):		Phot	tograpł	ns:			
Sites Monitored									
Circle One:	Plant Site	Access Road	Gas I	Gas Line Transmission Line Other (explain)					
Activity Log:	Log: Inspect north pond, say's phoebe and finches present. Finches flushed themselves. No dewatering or sludge removal occuring.  Inspect south pond 13-14 eared grebe, western grebe (1) not at pond previous day, 4 sandpipers observed. No sheen present. Western grebe has green algae tint on white flank, feathers may have matting of back feathers. Appears to be floating normally. All eared grebes swimming without apparent water proofing problems, float appears normal. 10:30 western grebe preening, maybe excessive preening, may need intervention later. Back feathers shiny, no matting of head and neck feathers. The bird is staying in SE corner of south pond unless pedestrian activity in area. Bird being left alone.  1200 walk by western grebe. Grebe remained at corner of pond. 12:15 notified site via voicemail, 12:30 discussed intervention and removing grebe from pond. USFWS/CDFW recommended person contacted. Recommendation given to collect and transport. Site asked for help transporting. Site to transport. 13:15 observed western grebe, no longer in corner, it is preening green area on right flank. Intervention attempt not being made at this time due to swimming away from shore. 1345 removed sandpiper mortality from south pond. Photographed, salvaged and placed in on site freezer. 1438 Left message with USFWS LE regarding sandpiper mortality.  One bird mortality removed from south pond, zero from north pond. No injured birds removed from either pond.								
			<b>Monitor Ch</b>	andrlin	4				
		1	Wiomtor Ci			<b>N</b> 7/A	Con	nments	
		neral		Yes	No	N/A		ntal Report if needed	
	ts verified and pro	<u> </u>				X	N/A		
	thin approved wor	•				X	N/A		
• • • • • • • • • • • • • • • • • • • •		ed for ingress and egres	s?			X	N/A		
Access road sign	-					X	N/A		
		sposed of in proper mar	nner?			X	N/A		
Topsoil segregat	ted properly?					X	N/A		
	tion barriers maint					X	N/A		
		at decals from WEAP t	raining?			X	N/A		
Speed limit obse	erved by all projec	t personnel?				X	N/A		
Biological Issues				Yes	No	N/A		nments ntal Report if needed	
Work area clear	ed by BM prior to	construction activity be	eginning?			X	N/A		
		species encountered? If ildlife incident data for				X	N/A		
Tortoise exclusi	onary fence and/o	r ramps intact?				X	N/A		
Any nesting bird	ds observed? Note	species (if known) and	location.			X	N/A		
Common Raven	s Present? If yes,	note number and activit	īy.			X	N/A		
All ESAs and oth	ner bio-related excl	usion areas marked and a	avoided?			X	N/A		
Additional Not	es: N/A								

Genesis Solar Energy Project									
Biological M	Biological Monitor (BM) Daily Report Date 11/21/2014								
Monitor: <u>Eri</u> Weather Condit High Temp (°F)	ions: Sunny, Clou	ds: 5%, Pcp: None v Temp (°F):	_ _	Start Time: Stop Time: Attachments: Photographs:					
Sites Monitored									
Circle One:	Plant Site	Access Road	Gas I	Line		Trans	mission Line	Other (explain)	
Activity Log: Inspect north and south evaporation ponds. One say's phoebe observed, no other avian findings. Noted floating oil bubbles in south pond northeast corner, total area approximately 2'x2'; largest bubble 6x6. South pond bottom is exposed and has repulsive odor.  Monitored evaporation ponds throughout day. South pond appears whiter than north pond, also less water. Water being pumped from south pond to north pond. Adjusted and improved bird repellent flagging.  Day total: zero avian mortalities and zero avian injuries.									
		Moi	nitor Ch	necklist	t				
General Yes No N/A Comments Attach Supplemental Report if needed									
Workspace limi	ts verified and prope	rly marked?				X	N/A	*	
All activities wi	thin approved works	pace limits?				X	N/A		
		for ingress and egress?				X	N/A		
Access road sig	ns in place?					X	N/A		
	=	osed of in proper manner?	,			X	N/A		
Topsoil segrega	ited properly?					X	N/A		
Topsoil segrega	tion barriers maintain	ned?				X	N/A		
All crew on site	displaying hard-hat	decals from WEAP training	ng?			X	N/A		
Speed limit obse	erved by all project p	personnel?				X	N/A		
	Biological	Issues		Yes	No	N/A	Attach Suppl	Comments emental Report if needed	
Work area clear	red by BM prior to co	onstruction activity beginn	ning?			X	N/A		
		ecies encountered? If so, rulife incident data form.	note		_	X	N/A		
Tortoise exclusi	ionary fence and/or ra	amps intact?				X	N/A		
Any nesting bire	ds observed? Note sp	pecies (if known) and loca	ition.			X	N/A		
Common Raver	ns Present? If yes, no	te number and activity.				X	N/A		
All FSAs and of	her hio-related exclusi	ion areas marked and avoid	led?			Y	N/A		

Genesis Solar Energy Project Biological Monitor (BM) Daily Report  Date 11/22/2014										
	•	у Кероп	i	Date 11/22/2014						
	c German	1 150/ P N	_	t Time	-	Stop Ti	me:			
	ions: Sunny, Cloud	<u> </u>	_	chmen	_					
High Temp (°F)	): Low	Temp (°F):	<u> </u>	tograpl	ns:					
Sites Monitored										
Circle One:	Plant Site	Access Road	Gas Line		Trans	mission Line	Other (explain)			
Activity Log: Inspect north evaporation pond. No avian findings. Inspect south evaporation pond, no avian findings. Some spots, what appear to be oil bubbles in south pond.  Water being pumped from south pond to north pond. Some white particulate moving from south pond to north pond. Day total: zero avian mortalities and zero avian injuries.										
Monitor Checklist										
General Yes No N/A Comments Attach Supplemental Report if needed										
Workspace limi	ts verified and proper	ly marked?			X	N/A	Transfer and the second			
•	thin approved works	•			X	N/A				
Only approved	access roads utilized	for ingress and egress?			X	N/A				
Access road sig	ns in place?				X	N/A				
	•	sed of in proper manner?			X	N/A				
Topsoil segrega		- ·			X	N/A				
Topsoil segrega	tion barriers maintair	ned?			X	N/A				
All crew on site	displaying hard-hat	decals from WEAP training	g?		X	N/A				
Speed limit obse	erved by all project p	ersonnel?			X	N/A				
	Biological	Issues	Yes	No	N/A		nments ntal Report if needed			
Work area clear	ed by BM prior to co	nstruction activity beginning	ng?		X	N/A				
•		cies encountered? If so, no life incident data form.	ote		X	N/A				
Tortoise exclusi	onary fence and/or ra	imps intact?			X	N/A				
Any nesting bire	ds observed? Note sp	ecies (if known) and locati	on.		X	N/A				
Common Raver	ns Present? If yes, not	e number and activity.			X	N/A				
All ESAs and ot	d?		X	N/A						

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**Additional Notes:** 

Genesis Solar Energy Project Biological Monitor (BM) Daily Report  Date 11/23/2014										
Monitor: Eric	c German	1		Start Time: - Stop Time: -						
Weather Condit		ds: 15%, Pcp: None	_	tachme		Stop 1	iiiie			
High Temp (°F)		Temp (°F): -	_	otogra						
Sites Monitored										
C! 1 0	<b>DI</b> 4 GM			cu	m					
Circle One:	Plant Site	Access Road	Gas Line		Trans	smission Line	Other (explain)			
Activity Log: Strong winds and blowing dust. Ended monitoring efforts for the day at 10:15 due to wind.  Inspect north and south evaporation ponds. No avian findings.  Monitor evaporation ponds. Repair some wind blown flagging. Water being moved from south pond to north pond.  Day total: zero avian mortalties and zero avian injuries.										
Monitor Checklist										
	Genera	1	Ye	s No	N/A		nments antal Report if needed			
Workspace limi	ts verified and proper	ly marked?			X	N/A	1			
All activities wi	thin approved worksp	pace limits?			X	N/A				
Only approved a	access roads utilized f	For ingress and egress?			X	N/A				
Access road sign	ns in place?				X	N/A				
Trash and debri	s contained and dispo	sed of in proper manner?			X	N/A				
Topsoil segrega	ted properly?				X	N/A				
Topsoil segrega	tion barriers maintain	ed?			X	N/A				
All crew on site	displaying hard-hat d	lecals from WEAP trainin	g?		X	N/A				
Speed limit obse	erved by all project pe	ersonnel?			X	N/A				
	Biological I	ssues	Ye	s No	N/A		nments ntal Report if needed			
Work area clear	red by BM prior to con	nstruction activity beginni	ng?		X	N/A				
•		cies encountered? If so, no ife incident data form.	ote		X	N/A				
Tortoise exclusi	ionary fence and/or ra	mps intact?			X	N/A				
Any nesting bird	ds observed? Note spe	ecies (if known) and locati	ion.		X	N/A				
Common Raver	ns Present? If yes, note	e number and activity.			X	N/A				
All ESAs and otl	d?		X	N/A						

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**Additional Notes:** 

Biological M	onitor (BM) Dai	<b>Genesis So</b> ly Report	lar En	ergy	y Pro	ject	Date	11/7/2014		
Monitor: Eric German  Weather Conditions: , Clouds: 0%, Pcp: None  High Temp (°F): - Low Temp (°F): -					Start Time: Stop Time: Attachments: Photographs:					
Sites Monitored										
Circle One:	Plant Site	Access Road	Gas L	Line		Trans	mission Line	Other (explain)		
Activity Log:	Inspect south evaporation pond. Distressed Western Grebe captured by site personnel during flush/haze efforts. Biologist placed bird in padded box. Oiled Wildlife Care Network and International Bird Rescue contact attempts made. OWCN confirmed bringing bird to IBR. Site transporting bird to IBR, Los Angeles. One eared grebe remains in south evaporation pond, the second eared grebe from previous day reported to have flown out of pond previous day (evening), as leaving made soft line strike without apparent consequence, bird appears to have flushed successfully. Inspect north pond area, no activities, no avian findings.  Search site perimeter, North and East sides of unit 1, entire unit 2 perimeter, no avian findings.  Line with Mylar bird reppelent tape strung across north pond. One line every 30' across N S direction of pond, mylar placed at 20' intervals on line. Preparations being made to begin pumping water from south pond to north pond.									
Monitor Checklist										
General Yes No N/A Comments Attach Supplemental Report if needed										
Workspace limi	ts verified and prop	erly marked?				X	N/A	•		
All activities wi	thin approved work	space limits?				X	N/A			
Only approved	access roads utilized	for ingress and egress?				X	N/A			
Access road sig	ns in place?					X	N/A			
Trash and debri	s contained and disp	osed of in proper manner	?			X	N/A			
Topsoil segrega	ited properly?					X	N/A			
Topsoil segrega	tion barriers mainta	ined?				X	N/A			
All crew on site	displaying hard-hat	decals from WEAP train	ing?			X	N/A			
Speed limit obs	erved by all project	personnel?				X	N/A			
	Biological	Issues		Yes	No	N/A		Comments emental Report if needed		
Work area clear	red by BM prior to c	onstruction activity begin	ning?			X	N/A			
species in comn	nents and attach wile	ecies encountered? If so, dlife incident data form.	note			X	N/A			
Tortoise exclusi	ionary fence and/or	ramps intact?				X	N/A			
Any nesting bir	ds observed? Note s	pecies (if known) and loca	ation.			X	N/A			
Common Raver	ns Present? If yes, no	ote number and activity.				X	N/A			
All ESAs and other bio-related exclusion areas marked and avoided?						X	N/A			

Genesis Solar Energy Project Biological Monitor (BM) Daily Report  Date 11/8/2014									
Monitor: Eric German  Weather Conditions: , Clouds: 0%, Pcp: None  High Temp (°F): - Low Temp (°F): -				Start Time: - Stop Time: - Attachments: Photographs:					
Sites Monitored									
Circle One:	Plant Site	Access Road	Gas l	Line		Trans	mission Line	Other (explain)	
Activity Log:	Inspect north evaporation pond. No avian activity. South pond dewatering began previous evening and water is being moved to north pond. No sheen at water entry to north pond. Slight sheen, unidentified source, along east edge of pond.  Inspect south pond, one eared grebe present. Bird able to avoid flush attempts: sound cannons in use, persons in boat, mylar on line. Bird monitored for remainder of day. Swimming, diving does not appear to be in distress.  One eared grebe and one sandpiper in south evaporation pond. No bird mortalities discovered, no bird injuries observed.								
Monitor Checklist									
General				Yes	No	N/A		nments ntal Report if needed	
Workspace limits verified and properly marked?						X	N/A	•	
All activities wi	thin approved works	pace limits?				X	N/A		
Only approved a	access roads utilized	for ingress and egress?				X	N/A		
Access road sign	ns in place?					X	N/A		
Trash and debris	s contained and dispo	osed of in proper manner	?			X	N/A		
Topsoil segregat	ted properly?					X	N/A		
Topsoil segregat	tion barriers maintai	ned?				X	N/A		
All crew on site	displaying hard-hat	decals from WEAP train	ing?			X	N/A		
Speed limit obse	erved by all project p	personnel?				X	N/A		
	Biological	Issues		Yes	No	N/A		nments ntal Report if needed	
Work area clear	ed by BM prior to co	onstruction activity begin	ning?			X	N/A		
		ecies encountered? If so, life incident data form.	note			X	N/A		
Tortoise exclusi	onary fence and/or ra	amps intact?				X	N/A		
Any nesting bird	ds observed? Note sp	pecies (if known) and loc	ation.			X	N/A		
Common Raven	s Present? If yes, no	te number and activity.				X	N/A		
All ESAs and oth	ner bio-related exclusi	ion areas marked and avoi	ded?			X	N/A		
Additional Notes: Previous day, 11/7/14, western grebe delivered alive to International Bird Rescue, Los Angeles.									

Biological M	onitor (BM) Dail	<b>Genesis So</b> y Report	lar E	Energy	y Pro	oject	Date	11/9/2014		
Monitor: Eri Weather Condit High Temp (°F)	ions: , Clouds: 0%	o, Pcp: None w Temp (°F):	 	Start Time: - Stop Time: - Attachments: Photographs:						
Sites Monitored										
Circle One:	Plant Site	Access Road	Gas	Line		Trans	mission Line	Other (explain)		
Activity Log:	Activity Log: Discuss sheen on north pond with site management. Source may be residual on bottom and sides of pond. Pond to be filled high enough to allow booming and further assessment. Inspect north pond, no avian findings.  Inspect south pond. Two eared grebes present, one appears fresh, the second may be the same bird as previous day. Flush attempts unsuccessful. If bird is able to avoid approaches it is assumed not to be in dire state. Sheen/matting on top of water in south pond, large mat estimated at 50'x 50'. Some green and white in matting.  No bird mortalities or rescues. Two eared grebe in south pond.									
	Monitor Checklist									
	Gener	al		Yes	No	N/A		Comments emental Report if needed		
Workspace limi	ts verified and prope	erly marked?				X	N/A	•		
All activities wi	thin approved works	space limits?				X	N/A			
Only approved	access roads utilized	for ingress and egress?				X	N/A			
Access road sig	ns in place?					X	N/A			
Trash and debri	s contained and disp	osed of in proper manner	?			X	N/A			
Topsoil segrega	ited properly?					X	N/A			
Topsoil segrega	tion barriers maintai	ned?				X	N/A			
All crew on site	displaying hard-hat	decals from WEAP train	ing?			X	N/A			
Speed limit obse	erved by all project p	personnel?				X	N/A			
	Biological	Issues		Yes	No	N/A		Comments emental Report if needed		
Work area clear	red by BM prior to co	onstruction activity begin	ning?			X	N/A			
		ecies encountered? If so, llife incident data form.	note			X	N/A	-		
Tortoise exclusi	ionary fence and/or r	amps intact?				X	N/A			
Any nesting bire	ds observed? Note sp	pecies (if known) and loca	ation.			X	N/A			
Common Raver	ns Present? If yes, no	te number and activity.				X	N/A			
All ESAs and other bio-related exclusion areas marked and avoided?						X	N/A			

#### **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.

# Response:

There were no Biological monitors supporting on going operational requirements during this reporting period.

#### 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 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.



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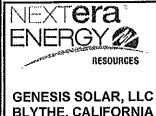
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(Print name)



# BLYTHE, CALIFORNIA

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THE HOLT GROUP INC.
Company or Contractor Name



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Signed:



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Albect Lin 3-11-14
Signed: Date

Alberto Limon
(Print name)



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Date

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(Print name)



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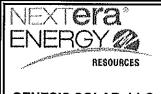
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Signed:

03-13-14 Date

Timothy Creidow (Print name)



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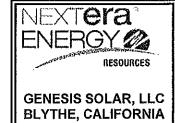
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Company or Contractor Name



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Jet wire, Inc. **Company or Contractor Name** 



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Signed:

3/26/14 Date

BRUCE V. BOLCIK

(Print name)

INTEGRATED SECURITY SYSTEMS



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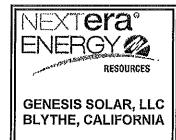
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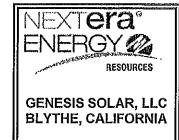
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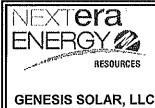
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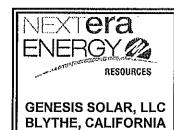
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Company or Contractor Name	



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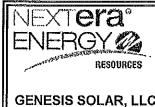
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Signed:	D
Pedro Lopez	
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 Pedro
 Lopez
 4-10-14

 Signed:
 Date

Pedro Lopez
(Print name)

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Patra Cry Signed:

Data

Peter Croz
(Print name)

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Company or Contractor Name



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Signed:

- 7,2019

Date

OAVIO C. MALISTER
(Print name)



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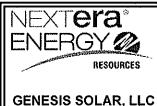
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Signed:

Date



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Page 22 of 22

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Byompalos	4-8-4
Signed:	Date
Bryan Rojas	
(Print name)	

# GENESIS SOLAR, LLC - 22 -Site Orientation Guide GENESIS SOLAR, LLC Revision Date: 9/25/2013

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Signed:

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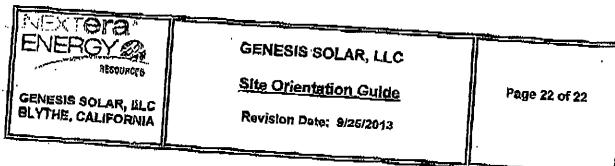
Industrial Refrigeration & Boiler Company
Company or Contractor Name

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PAGE 91



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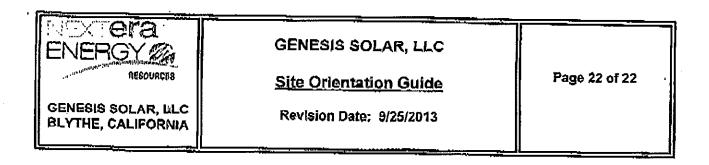
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PAGE 01



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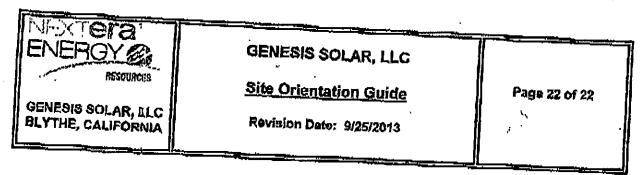
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Palm Springs Cleaning, Com

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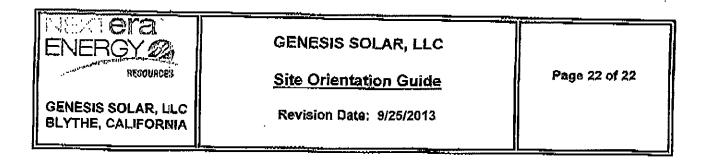
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Palm Springs cleaning, com

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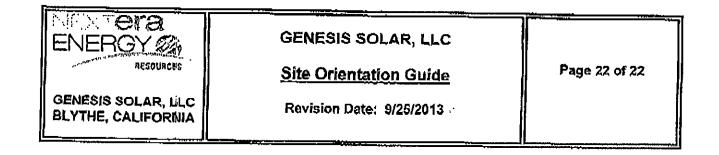
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PAGE 03



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Company or Contractor Name

Palm Springs Cleaning, Com



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Signed:

Date

(Print name)



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Signed:

Date

(Print name)

EXAMINETICS
Company or Contractor Name



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Signed:

Date

(Print name)



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Signed:

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Signed:

Date

Print name)

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Date

(Print name)



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Signed:

Date

47775 DEA (Print name)



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Signed:

Date

(Print name)



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Elizabeth Edmann (Print name)



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07-2/-20/4 Date



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Signed:

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m89	mes			7/28/14
	Signed:	<u>-</u>	_	Date
Morgan	Jones			
J	(Print name)		· Parings	
	G KP			



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Signed:

(Print name)



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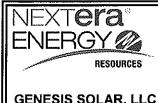
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Signed

(Print name)



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Susan Malone
Susan Malone
(Print name)

7/28/14



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Signed:

07-22-2014

Date

BRAD WESTLEY

(Print name)

Company or Contractor Name

276



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Signed:

7/24/14 Date

(Print name)



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Signed:

PAUL RABIE
(Print name)



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Signed:	·
Manuela Huso (Print name)	
(Print name)	
U.S. Geological Survey Company or Contractor Name	



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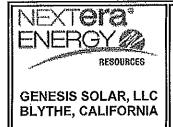
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Signed:

Print name)

US Fish i Wildlife Service
Company or Contractor Name



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Signed:

(Print name)



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Christophe Turner Signed:

Date

Christopher Turner
(Print name)

Farwest



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Signed://

29, 2014

Date

Michael Mayer (Print name)



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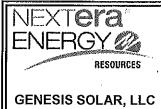
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Signed:



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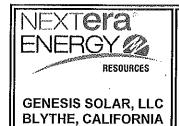
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Signed:

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Date

Erick Arellano
(Print name)



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**BLYTHE, CALIFORNIA** 

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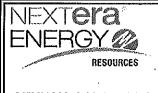
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Signed:

10-27-14 **Date** 

Albert Borbon
(Print name)

K-vac



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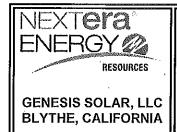
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(Print name)



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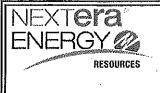
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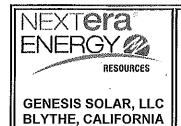
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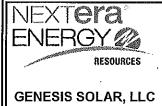
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**BLYTHE, CALIFORNIA** 

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Christin D. Equipolis Signed:

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han Sepulade (Print name)



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Daniel aresty

Date

Daniel Arreola (Print name)



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## **GENESIS SOLAR, LLC**

## Site Orientation Guide

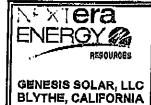
Révision Date: 9/25/2013

Page 22 of 22

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Site Orientation Guide

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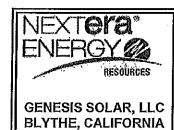
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Desert Fire Extinguisher Co Inc.

(760) 322-0995 558 E Industrial Place Palm Springs, CA 92264-8125



## Site Orientation Guide

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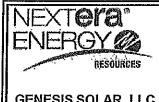
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Signed:

Date

(Print name)



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Company or Contractor Name (CPS)



#### **GENESIS SOLAR, LLC**

#### Site Orientation Guide

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## **GENESIS SOLAR, LLC**

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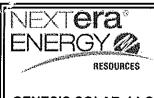
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#### **GENESIS SOLAR, LLC**

## Site Orientation Guide

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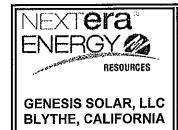
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# **Site Orientation Guide**

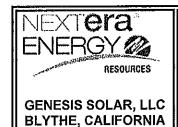
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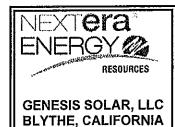
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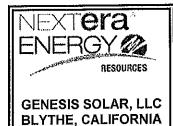
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#### Site Orientation Guide

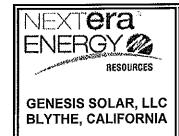
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Date

(Print name)



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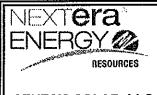
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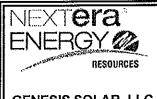
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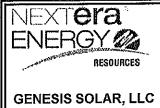
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**BLYTHE, CALIFORNIA** 

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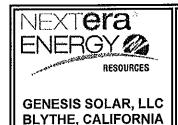
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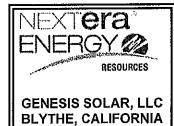
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# **Site Orientation Guide**

Revision Date: 9/25/2013

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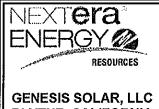
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**BLYTHE, CALIFORNIA** 

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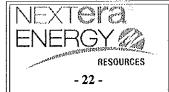
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Site Orientation Guide

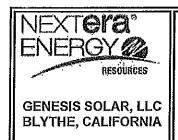
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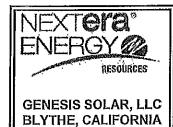
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(Print name)

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Desert Fire Ext CO



#### **GENESIS SOLAR, LLC**

## **Site Orientation Guide**

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Page 22 of 22

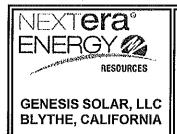
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Marya Marches

Marya Marya

Crstal Cleaning
Company or Contractor Name



#### **Site Orientation Guide**

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Kevin Cur RAW

(Print name) 2-28-14

(Print name)

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## **GENESIS SOLAR, LLC**

## Site Orientation Guide

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Page 22 of 22

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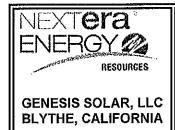
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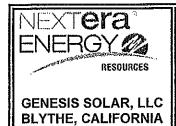
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Basin Tree Service / united Right of way
Company or Contractor Name



## **Site Orientation Guide**

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Page 22 of 22

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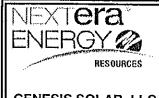
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HOLT GROUP
Company or Contractor Name



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Vortex Doors
Company or Contractor Name



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Christal Cleaning Connection
Company or Contractor Name



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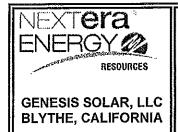
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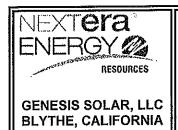
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MIKE DARNEU (Print name)

ARB, INC.
Company or Contractor Name



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Company or Contractor Name

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Company or Contractor Name

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**Company or Contractor Name** 

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Industrial Refrigeration & Boiler Company
Company or Contractor Name

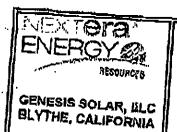
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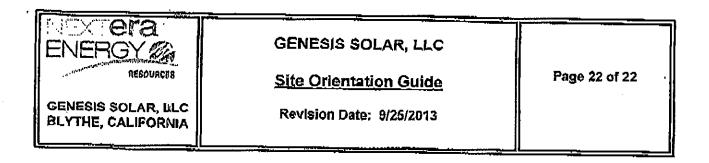
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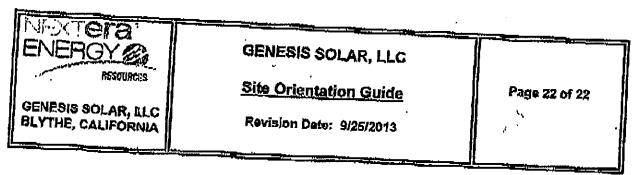
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Company or Contractor Name
Palm Springs Cleaning, Com

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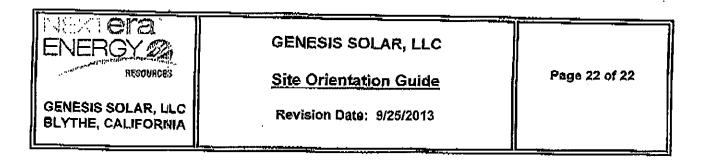
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PAGE 02



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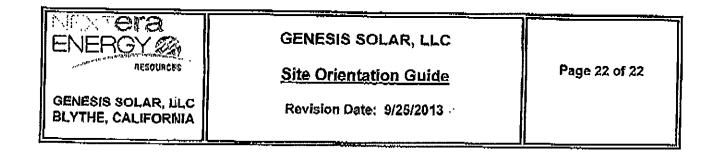
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Company or Contractor Name

Palm Springs Cleaning, Com



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Signed:

Date

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World Wind & Solar Company or Contractor Name



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05/20/2014 Date

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Signed:

Date

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7/28/14 Date

ElizabethEdmann



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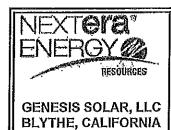
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Morgan	Jones			
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Signed

(Print name)



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Susan Malone
Susan Malone (Print name)



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Signed:

07-22-2014

Date

BRZAD WESTLEY

(Print name)



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Signed:

7/24/14 Date

(Print name)



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Signed:

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Signed:	Date
Manuela Huso	
(Print name)	



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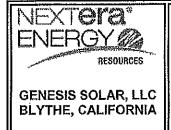
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July 17, 2011

Signed:

Chris Nicolai (Print name)

US Fish Wildlife Service
Company or Contractor Name



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Signed:

Date

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Company or Contractor Name



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Date

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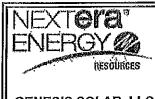
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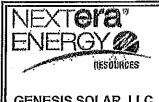
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ARB, INC.
Company or Contractor Name



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Signed:

3-22-2014

Date

(Print name)



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3/1//4 Signed: Date

(Print name)

BAL CONST.

Company or Contractor Name

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Alberto Limin
(Print name)

**B \$ L CONT**Company or Contractor Name

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Signed:

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(Print name)

Company or Contractor Name

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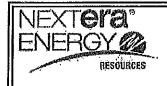
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Signed:

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THE HOLT GROUP INC.

Company or Contractor Name



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Signed:

73 | 18 | 14 Date

MARC AGUILAR
(Print name)



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Alberto Limon
(Print name)



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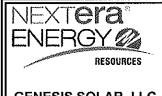
Signed:

3////4— Date

COUDANTUPE QUINONEZ
(Print name)

BAL, CONST.

Company or Contractor Name



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PRAID AS E72C (Print name)

BEL CONST. CO.
Company or Contractor Name



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3-10-14 Date

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Company or Contractor Name



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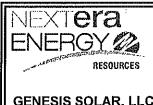
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Signed:

03-13-14 Date

Timothy Creidow (Print name)



# **GENESIS SOLAR, LLC**

# **Site Orientation Guide**

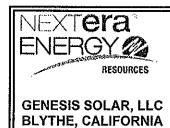
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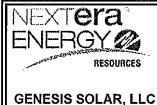
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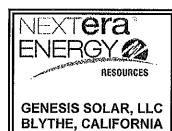
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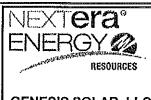
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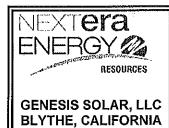
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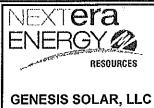
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# **BLYTHE, CALIFORNIA**

# **GENESIS SOLAR, LLC**

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Company or Contractor Name

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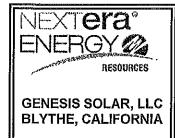
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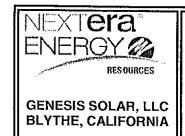
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Steven Balker
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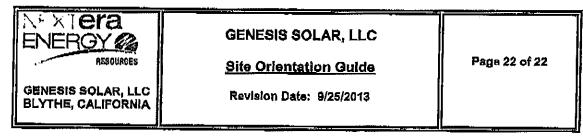
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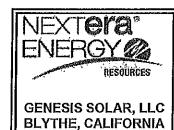
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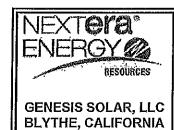
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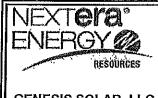
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