May 21, 2010

California Energy Commission
Docket No. 09-AFC-8
1516 9th St.
Sacramento, CA 95814

Genesis Solar Energy Project - Docket Number 09-AFC-8

Docket Clerk:

Enclosed for filing with this letter is one hard copy and one electronic copy of our Minor Changes to the Genesis Solar Energy Project Description.

The document addresses the following three minor changes:

• 6-pole Extension of Transmission Line
• Inclusion of Distribution and Telecommunications Line
• Removal of “Toe” Area from the Plant Facility

Sincerely,

[Signature]

Tricia Bernhardt
Project Manager/Tetra Tech EC

cc: Mike Monasmith /CEC Project Manager
APPLICATION FOR CERTIFICATION FOR THE  
GENESIS SOLAR ENERGY PROJECT  

Docket No. 09-AFC-8  
PROOF OF SERVICE  
(Revised 5/12/10)  

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publicadviser@energy.state.ca.us  

*indicates change
I, Tricia Bernhardt, declare that on May 21, 2010, I served and filed copies of the *Minor Changes to the Genesis Solar Energy Project* dated May 21, 2010. The original document, filed with the Docket Unit, is accompanied by a copy of the most recent Proof of Service list, located on the web page for this project at: [http://ww.energy.ca.gov/sitingcases/genesis_solar](http://ww.energy.ca.gov/sitingcases/genesis_solar).

The documents have been sent to both the other parties in this proceeding (as shown on the Proof of Service list) and to the Commission’s Docket Unit, in the following manner:

*(Check all that Apply)*

**FOR SERVICE TO ALL OTHER PARTIES:**

- [x] sent electronically to all email addresses on the Proof of Service list;
- [ ] by personal delivery or by depositing in the United States mail at Sacramento, California with first-class postage thereon fully prepaid and addressed as provided on the Proof of Service list above to those addresses **NOT** marked “email preferred.”

**AND**

**FOR FILING WITH THE ENERGY COMMISSION:**

- [x] sending an original paper copy and one electronic copy, mailed and emailed respectively, to the address below *(preferred method)*;
- [ ] depositing in the mail an original and 12 paper copies, as follows:

  **CALIFORNIA ENERGY COMMISSION**
  Attn: Docket No. 09-AFC-8
  1516 Ninth Street, MS-4
  Sacramento, CA 95814-5512
docket@energy.state.ca.us

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

Original Signed By:

Tricia Bernhardt
Minor Changes to the Genesis Solar Energy Project Description

6-pole Extension of Transmission Line
Inclusion of Distribution and Telecommunications Line
Removal of “Toe” Area from Plant Facility

Submitted by Genesis Solar, LLC
Dated May 21, 2010
Introduction

This document is intended to describe three minor project changes to the Genesis Solar Energy Project (Genesis):

- a proposed six pole extension of the Genesis transmission line at the Colorado River Substation,

- the inclusion of an electrical distribution line and telecommunications line along the primary linear corridor to the Genesis plant facility, and

- the removal of the “toe” area from the plant facility.

1.0 Addition of Six Pole Transmission Line Extension at the Colorado River Substation

This document is intended to describe a proposed minor, six pole extension of the Genesis Solar Energy Project (Genesis) transmission line; biological and cultural resource surveys that were conducted in the area; and the potential temporary and permanent disturbance footprint.

The transmission line from the Genesis power plant site to the point of interconnect at Southern California Edison's (SCE's) future Colorado River Substation (CRS) is referred to as the project's generation or "gen-tie" transmission line and is part of the Genesis project description. SCE's CRS is not part of the Genesis project description, but rather is an SCE project that SCE would permit, construct, own and operate to serve several projects in the area. The CRS has been described in a separate document that was submitted for docketing to the California Energy Commission on May 19th, 2010 and will be addressed as a “reasonably foreseeable development scenario” in the NEPA and CEQA-equivalent documents being prepared by the Bureau of Land Management (BLM) and the California Energy Commission (CEC).

In Figure 1 (attached), the Genesis gen-tie is presented in one color (blue) and the CRS facilities are presented in another color (red) to visually depict where the Genesis gen-tie ends and where SCE's CRS begins. As described in the CEC Application for Certification (AFC) and subsequent documents, the Genesis gen-tie would start at the Genesis power plant site and go approximately 7 miles to southeast until it reaches the existing Blythe Energy Transmission Line Project (BETP). From that point, the Genesis gen-tie would be strung eastward along existing BETP poles until the point where it leaves the BETP to enter into the CRS. Because the BETP runs immediately to the south of the proposed CRS location, Genesis had always assumed the gen-tie would go directly from the BETP poles into the south side of the CRS in a single span. However, SCE recently provided Genesis with a substation design that now requires the gen-tie, after it leaves the existing BETP poles, to come up around the western side of the substation and enter from the north (see Figure 2 attached). As shown in
Figure 2, this will require Genesis to add up to six additional gen-tie poles before entering the CRS.

1.1 Biological and Cultural Resource Surveys

Biological and cultural resource surveys of the area that could be potentially impacted by the six-pole extension of the gen-tie line were conducted in the spring of 2010 in conjunction with surveys that were being conducted for the CRS. Figure 2 shows the boundary of the biological resources survey area. The additional acreage is characterized as flat and exhibits general desert conditions.

The Blythe Solar Power Project (09-AFC-6) led the biological survey effort and on May 7th, 2010, Solar Millennium and their consultant AECOM released their preliminary spring 2010 survey results. On May 14th, they submitted a letter report to the CEC with the subject heading, “Blythe Solar Power Project (09-AFC-6) - Preliminary Spring Survey Results Corrected and Preliminary Impact Calculations for Biological Resources” (see Attachment A). Note that these biological survey reports covered a much larger area than just the six-pole extension area (i.e., they were intended to cover the large area of Solar Millennium’s Blythe Solar Power Project). Of potential interest, the results on the maps show the presence of Mojave fringe-toed lizards and ribbed cryptantha.

Southern California Edison has stated that cultural resource surveys were also conducted of the area by their consultant. The results are expected to be issued in a May 25th, 2010 report.

1.2 Impacts

The addition of six additional poles will create minor temporary and permanent disturbance. During construction the following amount of ground disturbance is expected.

<table>
<thead>
<tr>
<th>Temporary Disturbance</th>
<th>Dimensions (feet)</th>
<th>Quantity</th>
<th>Acres</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction laydown and assembly area</td>
<td>100 x 200</td>
<td>1</td>
<td>0.46</td>
</tr>
<tr>
<td>Conductor Pulling Area</td>
<td>50 x 140</td>
<td>2</td>
<td>0.32</td>
</tr>
<tr>
<td>Pole pad construction area</td>
<td>50 x 50</td>
<td>6</td>
<td>0.34</td>
</tr>
<tr>
<td>Transmission Access road</td>
<td>50 x 3,700</td>
<td>1</td>
<td>4.24</td>
</tr>
<tr>
<td><strong>Total Temporary Disturbance</strong></td>
<td></td>
<td></td>
<td><strong>4.58</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Permanent Disturbance</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transmission Pole Pads</td>
<td>6 x 6</td>
<td>6</td>
<td>.004</td>
</tr>
<tr>
<td>Transmission Maintenance Road</td>
<td>14 x 3700</td>
<td>1</td>
<td>1.18</td>
</tr>
<tr>
<td><strong>Total Permanent Disturbance</strong></td>
<td></td>
<td></td>
<td><strong>1.19</strong></td>
</tr>
</tbody>
</table>
1.3 Preliminary Conclusions

The permanent disturbance of 1.19 acres resulting from the maintenance road and the pole pads on approximately 45 acres of the expanded substation area is a minor impact to the environment. The temporary disturbance will constitute less than 5 acres. This disturbance may overlap in time and location with temporary disturbance from the transmission line construction of other projects, as well as the construction of the SCE substation.

Additional information is expected in the next few weeks regarding the surveys that were done by Solar Millennium and SCE. At that time, analysis will be conducted of the information that is available.

2.0 Inclusion of an Electrical Distribution/Telecommunications Line Along the Primary Linear Corridor at the Genesis Project Energy Site

The Genesis Solar Energy Project will need temporary power and communication during construction at the facility footprint. Although this need was inferred in the AFC, it was not identified as a separate feature. The project will need to tap into electrical power from an existing SCE distribution line near I-10.

This distribution/telecommunications line will follow the proposed Genesis linear corridor and access road up to the plant facility. This installation could either be above or below ground based on site conditions and availability of material. The type of material is likely to be single wood poles. Once the construction phase of the project is complete, these lines will likely be left in place to serve the onsite facilities such as offices, warehouse, and a control room. The development of the distribution line will follow the current SCE’s standards, guidelines and procedures for installation of electrical distribution power lines.

The distribution/telecommunications line will be built within the disturbed linear corridor and will be adjacent to the final gen-tie line. Therefore, the creation of the distribution/telecommunications line will not create additional impacts other than the physical area needed for the permanent pole pads. This minor impact will be calculated and quantified in a subsequent document.

3.0 Removal of the “Toe” Area from the Plant Facility

During a CEC workshop for the Genesis Solar Energy Project at the BLM office in Palm Springs, California on May 5th, 2010, the idea of not using the “toe” of the Genesis plant facility was discussed. (See Figure 3 attached) The proposal to remove the toe as as part of the active plant facility would minimize or negate some potential environmental impacts, primarily due to the presence of sand dunes and habitat for the Mojave fringe-toed lizard. Additionally, the toe area has several drainage washes running through it. Genesis Solar, LLC agreed to
remove the solar troughs and other plant facilities from the toe area, and to reconfigure the plant design to accomodate the change.

The toe removal reduces 41.4 acres of potential disturbance in sensitive habitat. Of that number, 27.2 acres are identified as sand dunes, with 14.2 acres as creosote bush scrub. The CEC, BLM and staff from U.S. Fish and Wildlife Service, and the California Department of Fish and Game consider this a positive project contribution to avoiding, reducing and minimizing impacts.

As described in Section 2 above, the disturbance area calculations for all three of these project changes in this document will be forthcoming in a subsequent report.
Figure 1
GENESIS SOLAR ENERGY PROJECT
RIVERSIDE COUNTY, CALIFORNIA

Notes:
(a) UTM Zone 11, NAD 1983 Projection.
(b) Source data: ESRI, TTEC, Alice Karl & Assoc.

Legend
- Existing Blythe Energy Transmission Line
- Genesis Generation Tie Line
- Genesis Project Site
- Facility Footprint
- Proposed 230kv Expansion Area
- 500kv Footprint Permitted By CPUC In 2009
- Spring 2010 Biological Resources Survey Area

GENESIS GENERATION TIE IN COLORADO RIVER SUBSTATION

Printing Date: 5/18/2010 2:07 PM
File: P:\GIS\Projects\FPL\Maps\Genesis\2010BioSurvey\Genesis-CoRivSubstation-Detail(1).mxd
Figure 2
GENESIS SOLAR ENERGY PROJECT
RIVERSIDE COUNTY, CALIFORNIA

Notes:
(a) UTM Zone 11, NAD 1983 Projection.
(b) Source data: ESRI, TTEC, Alice Karl & Assoc.

COLORADO RIVER SUBSTATION DETAIL
Figure 3
Genesis SOLAR ENERGY PROJECT
RIVERSIDE COUNTY, CALIFORNIA

Legend
- Proposed Transmission Interconnect
- Proposed Gas Line
- Proposed Access Road
- "Toe" Area - Proposed to be Removed from Plant Facility
- Plant Facility
- Project Requested ROW

Notes:
(a) UTM Zone 11, NAD 1983 Projection.
(b) Source data: ESRI

Proposed Change to "Toe" Area of Plant Facility
Attachment A

AECOM Letter Report Dated May 14, 2010 (Reprinted with permission from Solar Millennium)

Subject: Blythe Solar Power Project (09-AFC-6) – Preliminary Spring 2010 Survey Results Corrected and Preliminary Impact Calculations for Biological Resources
May 14, 2010

Ms. Susan Sanders
California Energy Commission
1516 Ninth Street
Sacramento, California 95814

Subject: Blythe Solar Power Project (09-AFC-6) – Preliminary Spring 2010 Survey Results Corrected and Preliminary Impact Calculations for Biological Resources

Dear Ms. Sanders:

On behalf of Palo Verde Solar I, LLC, AECOM is submitting preliminary results of biological surveys conducted in spring 2010 for desert tortoise (Gopherus agassizii; DT), rare plants, jurisdictional waters, and incidental wildlife occurrences for the Blythe Solar Power Project. This information was requested at the Palen and Blythe Staff Workshops conducted on April 28 and 29, 2010. Additional information was also requested in a letter from Susan Sanders to Alan Solomon dated May 12, 2010. Preliminary survey results for DT, rare plants and jurisdictional waters were submitted to the CEC on May 7, 2010. The results provided herein supersede the results provided on May 7, 2010. The previous survey results incorrectly included Coachella Valley milk-vetch (Astragalus lentiginosus var. coachellae) as part of the rare plant botanical survey results. The proper identification of these occurrences is Astragalus insularis var. harwoodii (Harwood’s milkvetch), a CNPS List 2.2 plant species. In addition, the results provided herein include an additional two mile segment of the gen-tie transmission line that was not previously reported. Surveys for jurisdictional waters have been completed and included herein for the additional transmission line; however, surveys for DT and rare plants are currently being conducted for this area. Therefore, the complete results of additional two mile segment of the transmission line will be provided in final technical reports to be submitted to the CEC in early June.

The preliminary survey results are presented in figures and tables attached. Table 1 and Figure 1 present a summary of observations of DT sign and DT occurrences noted during spring 2010 surveys. Table 2 and Figure 2 present the rare plant population counts observed during spring 2010 surveys. Figure 3 presents the results of a formal jurisdictional delineation of waters of the State. Table 3 and Figure 4 present incidental wildlife occurrences observed during protocol surveys for DT, rare plants, western burrowing owl, and jurisdictional waters. Results from the fall and spring 2009 surveys are not included in the tables and figures for DT, rare plants or incidental wildlife occurrences. However, the jurisdictional waters figure does include results from the 2009 surveys and a table presenting the results of both survey years is provided in the figure. Please note that the results provided in Tables 1 through 3 and Figures 1 through 4 are simply the results of our observations within the 100 percent coverage study area and associated buffers. These tables and figures do not represent total impacts within disturbance areas because we surveyed wider corridor widths and additional areas for contingency in the engineering design that ultimately will not be disturbed.

Figure 5 presents the additional disturbance areas for the temporary construction access road, transmission line corridor, utility corridor, road improvements to Black Rock Road, and additional project components that are outside the 2009 project footprint. Please note that some disturbance areas proposed in the 2009 project footprint have been removed in the 2010 project footprint. Therefore, the total Project Disturbance Area has been revised to be 6,983.9 acres. This total is still preliminary and subject to further refinement in the engineering design. A revised total disturbance area will be provided in final technical reports to be submitted to the CEC in early June.
Ms. Susan Sanders  
May 14, 2010  
Page 2  

Figure 6 presents preliminary impacts to all cover types, including state waters, resulting from the revised Project Disturbance Area. These impact calculations are still preliminary and subject to further refinement in the engineering design. Revised impact calculations will be provided in final technical reports to be submitted to the CEC in early June.

Please let us know if you have any questions.

Sincerely,

[Signature]

Mr. William Graham  
Principal  
AECOM  

Attachments:  
Table 1. Blythe Solar Power Project Desert Tortoise Observations Spring 2010  
Table 2. Blythe Solar Power Project Rare Plant Populations Counts Spring 2010  
Table 3. Blythe Solar Power Project Incidental Wildlife Occurrences  
Figure 1. Preliminary Results Desert Tortoise Spring 2010 Surveys  
Figure 2. Preliminary Results Botany Rare Plants Spring 2010 Surveys  
Figure 3. Preliminary Results State Waters Spring 2010 Surveys  
Figure 4. Preliminary Results Incidental Wildlife Occurrences Spring 2010 Surveys  
Figure 5. Preliminary Disturbance Areas May 2010  
Figure 6. Preliminary Impacts to Cover Types May 2010  
CD. Raw Data Files in Excel and Shapefiles

cc:  
Alice Harron, Solar Millennium  
Elizabeth Ingram, Solar Millennium  
Scott Galati, Solar Millennium Counsel  
Mark Luttrell, AECOM

Blythe Preliminary Bio Survey Results Spring 2010 letter to CEC
<table>
<thead>
<tr>
<th>Description</th>
<th>Proposed Project Study Area</th>
<th>Reconfigured Alternative Project Study Area</th>
<th>Proposed Project/Reconfigured Alternative Study Area</th>
<th>Buffer</th>
<th>Incidental Observations Outside Buffer Area</th>
<th>Grand Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adult Tortoise</td>
<td></td>
<td>1</td>
<td></td>
<td>2</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Adult Tortoise - Second Observation</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Active Tortoise Burrow or Pallet - Class 1</td>
<td></td>
<td>3</td>
<td>1</td>
<td>22</td>
<td>4</td>
<td>30</td>
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<tr>
<td>Tortoise Burrow or Pallet - Class 2 (good condition, no evidence of recent use)</td>
<td></td>
<td>2</td>
<td>4</td>
<td>20</td>
<td>1</td>
<td>27</td>
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<tr>
<td>Tortoise Burrow or Pallet - Class 3 (deteriorated, definitely tortoise)</td>
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<td>5</td>
<td></td>
<td>5</td>
<td>3</td>
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<td>13</td>
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<td>Tortoise Scat</td>
<td></td>
<td>2</td>
<td></td>
<td>2</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Fossilized Turtle/Tortoise Bone</td>
<td></td>
<td>1</td>
<td></td>
<td>1</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Tortoise Bone Fragment - Mineralized</td>
<td></td>
<td>10</td>
<td>10</td>
<td>6</td>
<td></td>
<td>26</td>
</tr>
<tr>
<td>Tortoise Bone Fragment - Not Mineralized</td>
<td></td>
<td>20</td>
<td>22</td>
<td>3</td>
<td>17</td>
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<td>Tortoise Carcass (not disarticulated and scattered)</td>
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<td>1</td>
<td>4</td>
<td>5</td>
<td></td>
<td>10</td>
</tr>
<tr>
<td>Tortoise Egg Shell Fragment</td>
<td></td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td>3</td>
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<tr>
<td>Tortoise Tracks</td>
<td></td>
<td>1</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>7</td>
</tr>
<tr>
<td>Tortoise Drinking Depression</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>

\(^1\)This encompasses the areas where the Proposed Project Study Area and Reconfigured Alternative Study Area overlap.
Table 2. Blythe Solar Power Project Rare Plant Population Counts Spring 2010

<table>
<thead>
<tr>
<th>Species</th>
<th>Proposed Project Study Area</th>
<th>Reconfigured Alternative Project Study Area</th>
<th>Propose Project/Reconfigured Alternative Study Area ²</th>
<th>Buffer</th>
<th>Incidental Observations Outside Buffer Area</th>
<th>Grand Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cottontop cactus</td>
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<td>5</td>
<td>10</td>
<td>16</td>
<td></td>
<td></td>
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<tr>
<td>Harwood’s milkvetch</td>
<td>677</td>
<td>60</td>
<td>128</td>
<td>1,837</td>
<td>60</td>
<td>2,762</td>
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<tr>
<td>Harwood’s woollystar</td>
<td>2,134</td>
<td>1,287</td>
<td>8</td>
<td>3,429</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Desert unicorn</td>
<td>4</td>
<td>15</td>
<td>6</td>
<td>1</td>
<td></td>
<td>26</td>
</tr>
<tr>
<td>Ribbed cryptantha</td>
<td>32,367</td>
<td>37,377</td>
<td>1,909</td>
<td>71,653</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Utah milkvine</td>
<td>14</td>
<td>78</td>
<td>12</td>
<td>526</td>
<td></td>
<td>630</td>
</tr>
<tr>
<td>Winged cryptantha</td>
<td></td>
<td>15</td>
<td></td>
<td>15</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

¹ Note that each point on the figure may represent multiple individuals
² This encompasses the areas where the Proposed Project Study Area and Reconfigured Alternative Study Area overlap.
³ Ribbed cryptantha was observed during 2010 botanical surveys as a generally continuous population throughout the stabilized and partially stabilized desert dunes south of I-10. This number represents the total number of plants physically counted during subsampling efforts; the actual population is currently estimated in the tens of millions (a more accurate population estimate will be provided in the Botanical Survey Report).
<table>
<thead>
<tr>
<th>Species Observations or Sign</th>
<th>Project Study Area</th>
<th>Reconfigured Alternative Study Area</th>
<th>Buffer</th>
<th>Grand Total</th>
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<td>American Badger Den</td>
<td>2</td>
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<tr>
<td>American Badger Predation Burrow</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td></td>
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<tr>
<td>Bat Guano - Unknown Species</td>
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<td></td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Cooper's Hawk</td>
<td>1</td>
<td></td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Ferruginous Hawk</td>
<td>1</td>
<td></td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Kit Fox Burrow</td>
<td>6</td>
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<td>2</td>
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</tr>
<tr>
<td>Kit Fox Complex</td>
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<tr>
<td>Loggerhead Shrike</td>
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<td>6</td>
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<td>Loggerhead Shrike Nest</td>
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</tr>
<tr>
<td>Mojave Fringe-toed Lizard</td>
<td>86</td>
<td>48</td>
<td>134</td>
<td></td>
</tr>
<tr>
<td>Nest Cavity - Unidentified Woodpecker Species</td>
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<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Northern Harrier</td>
<td>1</td>
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<td>1</td>
<td>3</td>
</tr>
<tr>
<td>Potential Pond for Couch's Spadefoot</td>
<td>3</td>
<td>2</td>
<td>9</td>
<td>14</td>
</tr>
<tr>
<td>Swainson's Hawk</td>
<td>4</td>
<td></td>
<td>5</td>
<td>9</td>
</tr>
<tr>
<td>Unknown Raptor Nest</td>
<td>1</td>
<td></td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Western Burrowing Owl</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>3</td>
</tr>
</tbody>
</table>

1 These observations were noted during protocol surveys conducted for desert tortoise, rare plants, western burrowing owl, jurisdictional waters and vegetation mapping.

2 This encompasses the areas where the Proposed Project Study Area and Reconfigured Alternative Study Area overlap.
DT Observations (Spring 2010)

- Adult Tortoise
- Adult Tortoise - Second Observation
- Active Tortoise Burrow or Pallet - Class 1
- Tortoise Scat

Legend

- Project Study Area
- Reconfigured Alternative Study Area
- Study Area (Surveyed in 2009)
- Buffer Transect 1000-foot
- Buffer Transect 3/4-mile
- Buffer Transect 1-mile

Blythe Solar Power Project
Figure 1
Preliminary Results
Desert Tortoise
Spring 2010 Surveys

Source: NAP 2009; AECOM 2010

Date: May 2010
Rare Plant Observations

- Winged cryptantha
- Utah milkvine
- Ribbed cryptantha
- Ribbed cryptantha occupied habitat
- Cottontop cactus
- Harwood's woollystar
- Harwood's milkvetch
- Desert unicorn

Study Area (Surveyed in 2009)

Project Study Area

Reconfigured Alternative Study Area

Map Location

Source: NAIP 2009; AECOM 2010

Figure 2
Preliminary Results
Botany Rare Plants
Spring 2010 Surveys

Date: May 2010
Jurisdictional Waters of the State of California

<table>
<thead>
<tr>
<th>Water Type</th>
<th>Project Study Area</th>
<th>Buffer</th>
<th>Reconfigured Alternative Study Area</th>
<th>Buffer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Desert Dry Wash Woodland</td>
<td>8.4</td>
<td>0.2</td>
<td>0.7</td>
<td>0.4</td>
</tr>
<tr>
<td>Wash Dependant Vegetation</td>
<td>23.8</td>
<td>0.0</td>
<td>3.5</td>
<td></td>
</tr>
<tr>
<td>Riparian Interfluve</td>
<td>279.9</td>
<td>36.8</td>
<td>143.8</td>
<td>27.7</td>
</tr>
<tr>
<td>Vegetated Ephemeral Dry Wash</td>
<td>9.2</td>
<td>1.5</td>
<td>5.0</td>
<td>1.5</td>
</tr>
<tr>
<td>Unvegetated Ephemeral Dry Wash</td>
<td>416.8</td>
<td>6.5</td>
<td>235.9</td>
<td>21.6</td>
</tr>
</tbody>
</table>

*Note: The Reconfigured Alternative Disturbance Area encompasses the disturbance caused by construction of the solar power blocks only and is not a complete engineering design.

[Image of map with various water types and study areas marked]
Figure 4
Incidental Wildlife Observations
Spring 2010 Surveys

Blythe Solar Power Project

Sensitive Wildlife Observations
- American Badger Den
- American Badger Predation Burrow
- Bat Guano - Unknown Species
- Cooper’s Hawk
- Ferruginous Hawk
- Loggerhead Shrike Nest
- Mojave Fringe-toed Lizard
- Kit Fox Burrow
- Kit Fox Complex
- Potential Pond for Couch’s Spadefoot
- Loggerhead Shrike
- Nest Cavity - Unidentified Woodpecker Species
- Western Burrowing Owl
- Unknown Raptor Nest
- Northern Harrier
- Swainson’s Hawk

Legend
- Project Study Area
- Reconfigured Alternative Study Area
- Study Area (Surveyed in 2009)
- BRSA

Map Location

Date: May 2010

Source: NAIP 2009; AECOM 2010

Legend

1 inch = 4,500 feet
Figure 5
Preliminary Disturbance Areas

Impact Boundaries
- Disturbance Area (9,603.4 acres)
- Additional Disturbance Areas 2010 (236.5 acres)
- Gen-Tie Alignment Disturbance Area (33.2 acres)
- Temporary Construction Power Disturbance Area (2.7 acres)
- Utility Corridor Disturbance Area (90.8 acres)
- Black Rock Road Access Disturbance Area (17.3 acres)

Scales:
- 1 inch = 4,000 feet
- Blythe Solar Power Project
- Spring 2010 Surveys

Date: May 2010

Legend
CA NV AZ UT OR ID
Map Location

Source: HWP 2010; AECOM 2016
Vegetation Community Impacts

Riparian
- Desert Dry Wash Woodland (302.2 acres)
- Unvegetated Epiphenal Dry Wash (8.6 acres)

Upland
- Big Galleta Grass – Creosote Bush Scrub Association (370.0 acres)
- Sonoita Creosote Bush Scrub (6,342.8 acres)
- Stabilized and Partially Stabilized Desert Dunes (40.64 acres)

Other
- Agriculture: Active and Fallow (2.2 acres)
- Developed (0.3 acre)
- Preliminary Disturbance Areas May 2010

Figure 6
Preliminary Impacts to Cover Types May 2010

Blythe Solar Power Project
Spring 2010 Surveys

Date: May 2010