

ORIGINAL



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Transcript Exhibit(s)

Docket #(s): L-0000077-16-0269-00172

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AZ CORP COMMISSION  
 DOCKET CONTROL  
 2016 SEP 15 PM 3 20

Exhibit #: WWR-22; WWR 1-21; 23-24

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Arizona Corporation Commission

DOCKETED

SEP 15 2016

DOCKETED BY Ky

**White Wing Ranch North /  
White Wing Gen-tie Project**

Line Siting Committee Case No. 172  
Evidentiary Hearing  
September 12, 2016  
Yuma, Arizona

**Exhibit WWR-22**

**Not admitted by design or oversight**

**Per Procedural Order dated 08-08-2016,  
Paragraph 14, we are including it here for  
filing.**



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- David L. Eberhart, P.E. Represents the General Public
- Jack Haenichen Represents the General Public
- Ian Bingham Designee for the Director of the Department of Environmental Quality
- Lisa Williams Designee for the Department of Water Resources
- Mary Hamway Represents Incorporated Cities and Towns
- Jeff McGuire Represents Agricultural Interests
- Patricia Noland Represents the General Public
- Jim Palmer Represents Counties

Applicant was represented by Jay Moyes and Jason Moyes of Moyes Sellers & Hendricks, Ltd. No parties sought intervention or made a limited appearance. At the conclusion of the hearing, the Committee, having received the Application, the evidence, testimony and exhibits presented at the hearing, and being advised of the legal requirements of A.R.S. §§ 40-360 to 40-360.13, upon motion duly made and seconded, voted \_\_\_ to \_\_\_ in favor of granting Applicant this Certificate of Environmental Compatibility (Case No. 172) for construction of the White Wing Gen-tie Project. The White Wing Gen-tie Project (the "Project"), as approved, will interconnect the proposed White Wing photovoltaic solar generating facility to the existing Hoodoo Wash 500kV substation. The approved Project consists of a 34.5 / up to 500kV Solar Site Substation; an approximately 3.5-mile, up to 500kV Gen-tie Line; and (if the Solar Site Substation and Gen-tie Line are built at a voltage less than 500kV) a Step-up Substation for transformation to 500kV, with a short 500kV line connecting to the adjacent existing Hoodoo Wash Substation. The Project is located in Sections 16, 17, 20, 28, 29, 33, and 34, Township 5 South, Range 12 West, G&SRB&M, in Yuma County, approximately 10 miles north and approximately 3 miles east of Dateland, Arizona. The

1 proposed Gen-tie Line will be constructed in a corridor approximately 300-feet wide, running  
2 between the Solar Site Substation and the existing Hoodoo Wash Substation, and generally  
3 paralleling the western boundary of the existing Agua Caliente Solar Project. A general  
4 location map of the Project is set forth in **Exhibit A**.

5 **CONDITIONS**

6 This Certificate is granted upon the following conditions:

7 1. Applicant shall comply with all existing applicable statutes, ordinances, master  
8 plans and regulations of any governmental entity having jurisdiction during the construction of  
9 the Project—including the United States, the State of Arizona, or Yuma County.

10 2. If human remains and/or funerary objects are encountered on private land during  
11 the course of any ground-disturbing activities relating to the construction of the Project,  
12 Applicant shall cease work on the affected area of the Project and notify the Director of the  
13 Arizona State Museum as required by A.R.S. § 41-865.

14 3. Applicant shall comply with the notice and salvage requirements of the Arizona  
15 Native Plant Law (A.R.S. §§ 3-901, et seq.) and shall, to the extent feasible, minimize the  
16 destruction of native plants during Project construction)

17 4. Applicant agrees to follow Arizona Game and Fish Department (“AGFD”)  
18 guidelines for handling protected animal species, should any be encountered during  
19 construction.

20 5. Applicant shall design the transmission lines to incorporate reasonable measures to  
21 minimize impacts to raptors. Such design will address the application of recommended  
22 measures to minimize the risk of collision, as described in the 2012 guidelines of the Avian  
23 Power Line Interaction Committee.

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1           6. Applicant will comply with all terms, conditions, and requirements set forth in the  
2 final decision by the United States Bureau of Land Management (“BLM”) granting Applicant’s  
3 pending Application for Right of Way (“ROW”).

4           7. Applicant shall use non-specular conductor and non-reflective surfaces for the  
5 Project’s transmission line structures. )

6           8. When Project facilities are located parallel to and within one hundred (100) feet of  
7 any existing natural gas or hazardous liquid pipeline, Applicant shall:

- 8           a. Ensure grounding and cathodic protection measurements are performed to show  
9 that the Project’s location parallel to and within one hundred (100) feet of such  
10 pipeline results in no material adverse impacts to the pipeline or to public safety  
11 when both the pipeline and the Project are in operation. Applicant shall take  
12 appropriate steps to ensure that any material adverse impacts are mitigated.  
13 Applicant shall provide to Arizona Corporation Commission (“Commission”)  
14 Staff and file with Docket Control a copy of the measurements performed and  
15 additional mitigation, if any, that was implemented as part of its annual  
16 compliance-certification letter; and  
17           b. Ensure that measurements are taken during an outage simulation of the Project  
18 that may be caused by the collocation of the Project parallel to and within one  
19 hundred (100) feet of the existing natural gas or hazardous liquid pipeline. The  
20 measurements should either: (i) show that such simulated outage does not result  
21 in customer outages; or (ii) include operating plans to minimize any resulting  
22 customer outages. Applicant shall provide a copy of the measurement results to  
23 Commission Staff and file it with Docket Control as part of its annual  
24 compliance-certification letter.  
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1           9. Applicant will follow the most current Western Electricity Coordinating Council /  
2 North American Electric Reliability Corporation planning standards, as approved by the Federal  
3 Energy Regulatory Commission, and National Electrical Safety Code construction standards.

4           10. This authorization to construct the Project shall expire ten (10) years from the date  
5 the Certificate is approved by the Arizona Corporation Commission (the "Commission").  
6 However, prior to expiration, Applicant may request that the Commission extend this time  
7 limitation. In the event of such request, Applicant shall use reasonable means to notify all  
8 landowners and residents within one mile of the Project, all persons who made public comment at  
9 this proceeding, and all parties to this proceeding of the request and the date, time and place of  
10 the hearing in which the Commission will consider the request for extension.

11           11. Within 120 days of the Commission decision approving this Certificate, Applicant  
12 will post at the Project site a new sign, of approximately the same size and at approximately the  
13 same location as the "Notice of Hearing" sign previously posted by Applicant, giving further  
14 notice of the Project, to the extent authorized by law, until the Project construction is substantially  
15 completed. The sign shall advise :

- 16                   (a) That the site has been approved for the construction of Project facilities;
- 17                   (b) The expected date of completion of the Project facilities;
- 18                   (c) A phone number for public information regarding the Project;
- 19                   (d) The name of the Project; and
- 20                   (e) The website of the Project.

21           12. Applicant shall submit a compliance-certification letter annually, identifying  
22 progress made with respect to each condition contained in this Certificate, including which  
23 conditions have been met. Each letter shall be submitted to Docket Control of the Arizona  
24 Corporation Commission on or before October 1 beginning in 2017. Attached to each  
25 compliance-certification letter shall be documentation explaining how compliance with each  
26

1 condition was achieved. Copies of each letter along with the corresponding documentation  
2 shall be submitted to the Arizona Attorney General and the Arizona Governor's Office [of  
3 Energy Policy]. The requirement for the compliance-certification letter shall expire on the date  
4 the Project is placed into operation. Notification of such filing with Docket Control shall be  
5 made to Yuma County, all parties to this Docket, and all parties, if any, that made a limited  
6 appearance in this Docket.

7 13. Applicant shall provide copies of this Certificate to Yuma County, the BLM, the  
8 State Historic Preservation Office, and the Arizona Game and Fish Department.

9 14. Any transfer of assignment of this Certificate shall require the assignee or  
10 successor to assume in writing all responsibilities of the Applicant listed in this Certificate and  
11 its conditions as required by A.R.S § 40-360.08(A) and R14-3-213(F) of the Arizona  
12 Administrative Code.

13 **FINDINGS OF FACT AND CONCLUSIONS OF LAW**

14 This Certificate incorporates the following findings of fact and conclusions of law:

- 15 1. The Project aids the state and the southwest region in meeting the need for an  
16 adequate, economical and reliable supply of electric power.
- 17 2. The Project aids the state in preserving a safe and reliable transmission system.
- 18 3. The Project and the conditions placed on the Project by the Committee in this  
19 Certificate effectively minimize the Project's impact on the environment and  
20 ecology of the state.
- 21 4. The conditions placed on the Certificate resolve matters concerning balancing the  
22 need for the Project and its impact on the environment and ecology of the state  
23 raised during the course of the proceedings, and as such, serve as findings on the  
24 matters raised.

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- 5. The Project is in the public interest because the Project's contribution to meeting the need for an adequate, economical and reliable supply of clean, renewable electric power and a safe and reliable transmission system outweighs the minimized impact of the Project on the environment and ecology of the state.
- 6. In light of these conditions, the balancing in the broad public interest results in favor of granting this Certificate.

DATED this \_\_\_ day of September, 2016.

THE ARIZONA POWER PLANT AND  
TRANSMISSION LINE SITING COMMITTEE

\_\_\_\_\_  
Thomas K. Chenal, Chairman

**Legend**

Interstate Highway

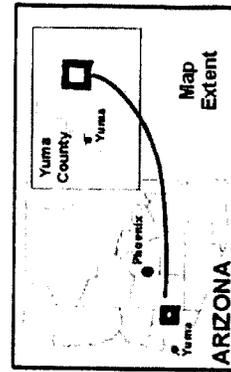
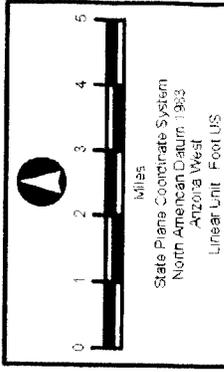
Road

Railroad

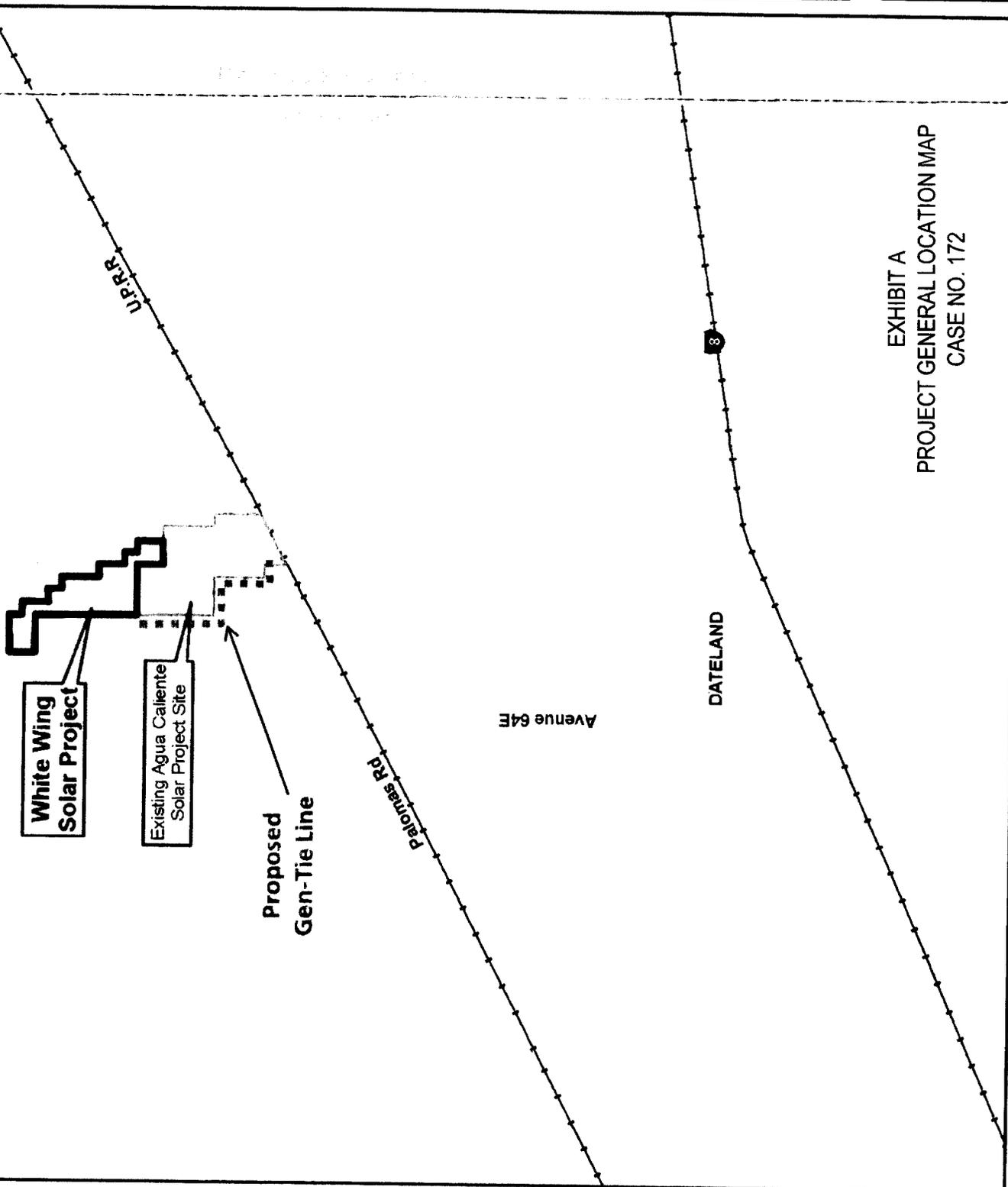
White Wing Solar Project

Existing Agua Caliente Solar Project Site

County Boundary



<b>WHITE WING GEN-TIE PROJECT</b>
<b>PROJECT LOCATION</b>
Map Extent: Yuma County, Arizona
Case 2:29-16 Author: [redacted]



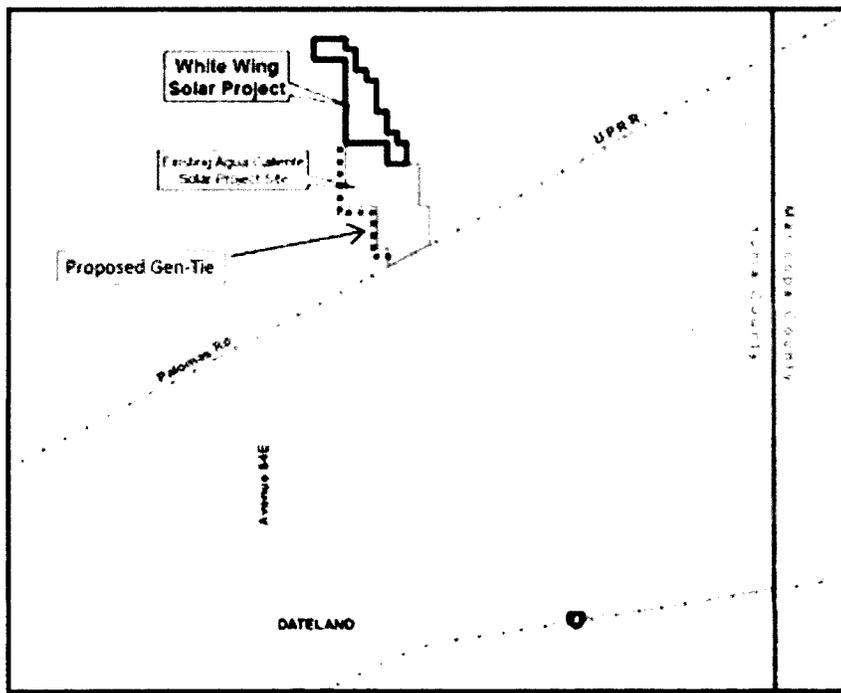
**EXHIBIT A**  
**PROJECT GENERAL LOCATION MAP**  
**CASE NO. 172**



1 and the ACC website. **NOTE: NOTICE OF ANY SUCH RESUMED HEARING WILL BE**  
2 **GIVEN; HOWEVER, PUBLISHED NOTICE OF SUCH RESUMED HEARING IS NOT**  
3 **REQUIRED.**

4 The Committee, at its discretion, may tour the White Wing Gen-tie Project location on  
5 Monday, September 12, 2016, departing at approximately 1:30 p.m. from the Hampton Inn  
6 & Suites –Yuma, or at an alternate date and time as determined by the Chairman. The map  
7 and itinerary for the tour will be available at the hearing and posted on the White Wing  
8 Gen-tie Project website. Members of the public may follow the Committee on the tour in  
9 personal vehicles. During the tour the Committee may hear brief testimony at stops on the  
10 tour from one or more witnesses concerning where the stops are located, what is visible at  
11 the stops, and the relevance of the location and view to the facilities in the Application. No  
12 other discussion or deliberation concerning the Application will occur during the tour.  
13 Any testimony taken or comments made to or by the Committee during the tour will be  
14 recorded for transcription and made available as part of the hearing record.

15 The below map identifies the proposed location of the White Wing Gen-tie Project:



22 Copies of the Application, containing detailed maps of the White Wing Gen-tie Project site and  
23 detailed information about the proposed facilities, and copies of the transcripts will be available  
24 for inspection at the following locations:

- 25 • Docket Control Center of the ACC Phoenix Office at 1200 West Washington Street, Suite  
26 108, Phoenix, AZ 85007
- 27 • Dateland Elementary School Library, 1300 S. Avenue 64 E, Dateland, AZ
- Yuma County Main Public Library, 2951 S. 21<sup>st</sup> Drive, Yuma, AZ
- White Wing Gen-tie Project website, [www.WhiteWingGen-tie.com](http://www.WhiteWingGen-tie.com)



1 Each county and municipal government and state agency interested in the proposed White Wing  
2 Gen-tie Project and desiring to be a party to the proceedings shall, not less than ten days before the  
3 date set for hearing, file with the Director of Utilities, Arizona Corporation Commission, 1200  
4 West Washington Street, Phoenix, Arizona 85007 a notice of intent to be a party.

5 Any domestic non-profit corporation or association formed in whole or in part to promote  
6 conservation of natural beauty, to protect the environment, personal health or other biological  
7 values, to preserve historical sites, to promote consumer interests, to represent commercial and  
8 industrial groups, or to promote the orderly development of the area in which the Project are to be  
9 located and desiring to become a party to the proceedings shall, not less than ten days before the  
10 date set for hearing, file with the Director of Utilities, Arizona Corporation Commission, 1200  
11 West Washington Street, Phoenix, Arizona 85007 a notice of intent to be a party.

12 The Committee or its Chairman, at any time deemed appropriate, may make other persons parties  
13 to the proceeding.

14 Any person may make a limited appearance at a hearing by filing a statement in writing with the  
15 Director of Utilities, Arizona Corporation Commission, 1200 West Washington Street, Phoenix,  
16 Arizona 85007, not less than five days before the date set for hearing. A person making a limited  
17 appearance shall not be a party or have the right to present testimony or cross-examine witnesses.

18 This proceeding is governed by Arizona Revised Statutes Sections 40-360 to 40-360.13 and  
19 Arizona Administrative Code R14-3-201 to R14-3-220. No substantive communication not in the  
20 public record may be made to any member of the Committee. The written decision of the  
21 Committee will be submitted to the Arizona Corporation Commission pursuant to Arizona  
22 Revised Statutes Section 40-360.07. Any person intending to be a party to the proceedings on  
23 these matters before the Arizona Corporation Commission must be a party to the proceedings  
24 before the Committee.

25 ORDERED this \_\_\_\_ day of August, 2016.

26 \_\_\_\_\_  
27 Thomas K. Chenal, Chairman  
ARIZONA POWER PLANT AND TRANSMISSION  
LINE SITING COMMITTEE  
Assistant Attorney General

*Conf. Filing Conf.*

# **NOTICE OF HEARING**

## **BEFORE THE ARIZONA POWER PLANT AND TRANSMISSION LINE SITING COMMITTEE**

Docket No. [ ]

**A PUBLIC HEARING WILL BE HELD** regarding the Application of White Wing Ranch North, LLC for a Certificate of Environmental Compatibility authorizing the construction in the vicinity of this sign of an approximately 3.5-mile long 115 kV, 230 kV, or 500 kV gen-tie transmission line and up to two (2) substations (collectively, the “White Wing Gen-tie Project”).

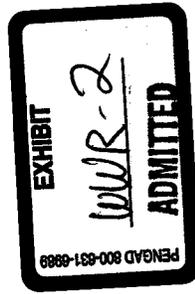
The hearing will be held on **Monday, September 12, 2016, at 9:30 a.m. and Tuesday, September 13, 2016, at 9:30 a.m.**, at the **Hampton Inn & Suites -Yuma**, 1600 East 16<sup>th</sup> Street, Yuma, Arizona, 85365

### **PUBLIC COMMENT WILL BE TAKEN AT THE DISCRETION OF THE COMMITTEE CHAIRMAN**

Additional hearings, if necessary, will be noticed on the **White Wing Ranch website** at: [www.WhiteWingGen-tie.com](http://www.WhiteWingGen-tie.com) and on the **Arizona Corporation Commission website** at: [www.azcc.gov/AZ\\_Power\\_Plant/LineSiting-Calendar.asp](http://www.azcc.gov/AZ_Power_Plant/LineSiting-Calendar.asp)

The Committee, at its discretion, may tour the Project Site on Monday, September 12, 2016, departing at approximately 1:30 p.m. from the Hampton Inn & Suites - Yuma. The public may follow the Committee tour in personal vehicles, and maps will be provided upon departure. Any comments made to or by the Committee during a tour will be recorded for transcription and made available as part of the hearing record.

Details of the Project are contained in the Application, a copy of which can be viewed at the Dateland Elementary School Library, The Yuma County Main Public Library, or at the Docket Control Center of the Arizona Corporation Commission, 1200 West Washington, Phoenix, Arizona 85007. Information regarding participation through a limited appearance or as a party at the hearing may be obtained by contacting the Arizona Corporation Commission’s Consumer Services Section at 1-800-222-7000 or 602-542-4251.



BEFORE THE ARIZONA POWER PLANT AND TRANSMISSION LINE SITING COMMITTEE  
AZ CORP COMMISSION  
DOCKET CONTROL

RECEIVED

2016 AUG -2 A 11: 35

In the matter of the Application of White Wing Ranch North, LLC, in conformance with the requirements of Arizona Revised Statutes 40-360.03 and 40-360.06, for a Certificate of Environmental Compatibility authorizing construction of the White Wing Gen-Tie Project, an approximately 3.5 mile gen-tie transmission line and associated substation facilities interconnecting to the existing Hoodoo Wash Substation approximately 10 miles north and 3 miles east of Dateland, Yuma County, Arizona.	Docket No. L-00000ZZ-16-0269-00172 Case No. 172
--	--

**NOTICE OF HEARING**

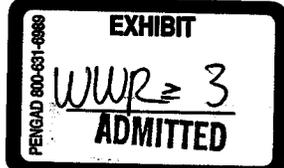
A PUBLIC HEARING WILL BE HELD before the Arizona Power Plant and Transmission Line Siting Committee ("Committee") regarding the Application of White Wing Ranch North, LLC, for a Certificate of Environmental Compatibility ("CEC") authorizing construction of one (1) approximately 3.5-mile long, either 500kV, 230kV or 115kV, gen-tie transmission line and up to two (2) associated substations (collectively, the "White Wing Gen-tie Project") interconnecting a proposed photovoltaic (PV) solar generating facility to the existing Hoodoo Wash 500kV substation in Section 34, T5S, R12W, G&SRBM, Yuma County, approximately 10 miles north and 3 miles east of Dateland, Arizona.

The hearing will be held at the Hampton Inn & Suites -Yuma, located at 1600 E. 16<sup>th</sup> Street, Yuma, AZ 85365, Telephone: 928-329-5600. The hearing will begin on Monday, September 12, 2016 at 9:30 a.m. and as necessary continue on Tuesday, September 13, 2016 at 9:30 a.m. The hearing will adjourn at approximately 5:00 p.m. or earlier at the discretion of the Committee Chairman.

Additional hearings, if necessary, will be noticed on the White Wing Gen-tie Project website at: [www.WhiteWingGen-tie.com](http://www.WhiteWingGen-tie.com) and on the Arizona Corporation Commission ("ACC") website at: [www.azcc.gov/AZ\\_Power\\_Plant/LineSiting-Calendar.asp](http://www.azcc.gov/AZ_Power_Plant/LineSiting-Calendar.asp).

**PUBLIC COMMENT MAY BE TAKEN AT THE BEGINNING OF EACH HEARING DAY OR AT OTHER TIMES DURING THE HEARING AT THE DISCRETION OF THE COMMITTEE CHAIRMAN.**

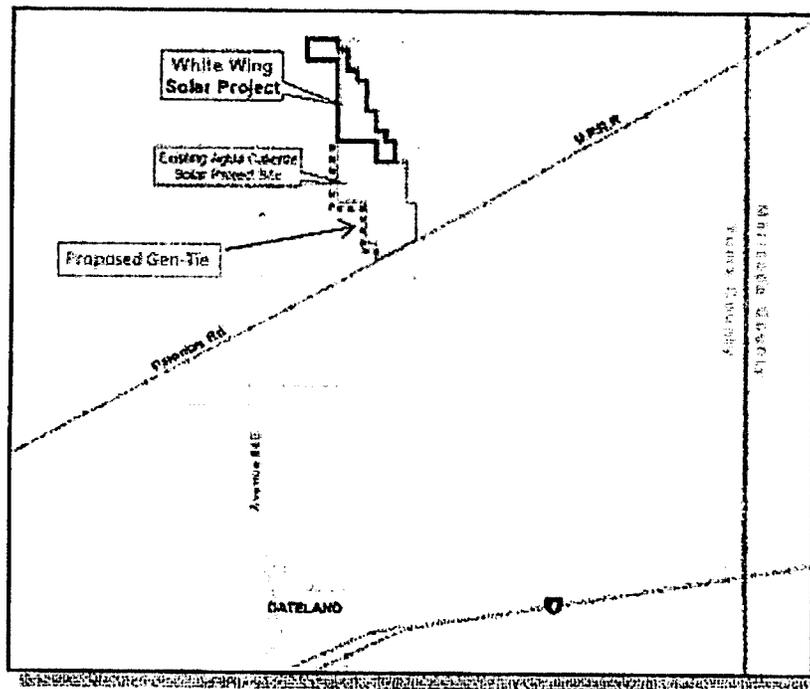
The Chairman may, at his discretion, recess the hearing to a time and place to be announced during the hearing, or to be determined after the recess. The date, time and place at which the hearing will be resumed will be posted on the above-noted White Wing Gen-tie Project website



1 and the ACC website. **NOTE: NOTICE OF ANY SUCH RESUMED HEARING WILL BE**  
2 **GIVEN; HOWEVER, PUBLISHED NOTICE OF SUCH RESUMED HEARING IS NOT**  
3 **REQUIRED.**

4 The Committee, at its discretion, may tour the White Wing Gen-tie Project location on Monday,  
5 September 12, 2016, departing at approximately 1:30 p.m. from the Hampton Inn & Suites –  
6 Yuma, or at an alternate date and time as determined by the Chairman. The map and itinerary for  
7 the tour will be available at the hearing and posted on the White Wing Gen-tie Project website.  
8 Members of the public may follow the Committee on the tour in personal vehicles. During the tour  
9 the Committee may hear brief testimony at stops on the tour from one or more witnesses  
concerning where the stops are located, what is visible at the stops, and the relevance of the  
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1 Each county and municipal government and state agency interested in the proposed White Wing  
2 Gen-tie Project and desiring to be a party to the proceedings shall, not less than ten days before the  
3 date set for hearing, file with the Director of Utilities, Arizona Corporation Commission, 1200  
4 West Washington Street, Phoenix, Arizona 85007 a notice of intent to be a party.

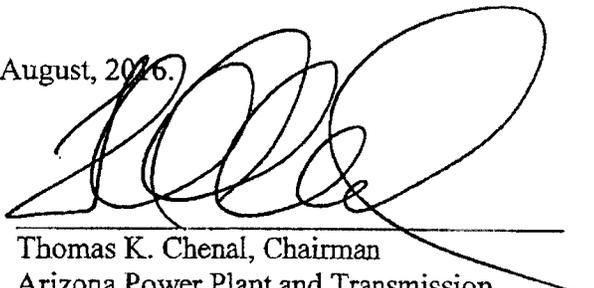
5 Any domestic non-profit corporation or association formed in whole or in part to promote  
6 conservation of natural beauty, to protect the environment, personal health or other biological  
7 values, to preserve historical sites, to promote consumer interests, to represent commercial and  
8 industrial groups, or to promote the orderly development of the area in which the White Wing  
9 Gen-tie Project is to be located and desiring to become a party to the proceedings shall, not less  
10 than ten days before the date set for hearing, file with the Director of Utilities, Arizona  
11 Corporation Commission, 1200 West Washington Street, Phoenix, Arizona 85007 a notice of  
12 intent to be a party.

13 The Committee or its Chairman, at any time deemed appropriate, may make other persons parties  
14 to the proceeding.

15 Any person may make a limited appearance at a hearing by filing a statement in writing with the  
16 Director of Utilities, Arizona Corporation Commission, 1200 West Washington Street, Phoenix,  
17 Arizona 85007, not less than five days before the date set for hearing. A person making a limited  
18 appearance shall not be a party or have the right to present testimony or cross-examine witnesses.

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21 public record may be made to any member of the Committee. The written decision of the  
22 Committee will be submitted to the Arizona Corporation Commission pursuant to Arizona  
23 Revised Statutes Section 40-360.07. Any person intending to be a party to the proceedings on  
24 these matters before the Arizona Corporation Commission must be a party to the proceedings  
25 before the Committee.

26 ORDERED this 2<sup>nd</sup> day of August, 2016.

27   
Thomas K. Chenal, Chairman  
Arizona Power Plant and Transmission  
Line Siting Committee  
Assistant Attorney General

#5230416

# NOTICE OF HEARING

## **BEFORE THE ARIZONA POWER PLANT AND TRANSMISSION LINE SITING COMMITTEE**

Docket No. L-00000ZZ-16-0279-00172

**A PUBLIC HEARING WILL BE HELD** regarding the Application of White Wing Ranch North, LLC for a Certificate of Environmental Compatibility authorizing the construction in the vicinity of this sign of an approximately 3.5-mile long 115 kV, 230 kV, or 500kV gen-tie transmission line and up to two (2) substations (collectively, the "White Wing Gen-tie Project").

The hearing will be held on **Monday, September 12, 2016, at 9:30 a.m.** and **Tuesday, September 13, 2016, at 9:30 a.m.**, at the **Hampton Inn & Suites -Yuma, 1600 East 16th Street, Yuma, Arizona, 85365**

**PUBLIC COMMENT WILL BE TAKEN AT THE DISCRETION OF THE COMMITTEE CHAIRMAN**  
Additional hearings, if necessary, will be noticed on the **White Wing Ranch website at: [www.WhiteWingGen-tie.com](http://www.WhiteWingGen-tie.com)** and on the **Arizona Corporation Commission website at: [www.azcc.gov/AZ\\_Power\\_Plant/LineSiting-Calendar.asp](http://www.azcc.gov/AZ_Power_Plant/LineSiting-Calendar.asp)**

The Committee, at its discretion, may tour the White Wing Gen-tie Project location on Monday, September 12, 2016, departing at approx. 1:30 p.m. from the Hampton Inn & Suites - Yuma or at an alternate date and time as determined by the Chairman. The map and itinerary for the tour will be available at the hearing and posted on the White Wing Gen-tie Project website. Members of the public may follow the Committee on the tour in personal vehicles. During the tour the Committee may hear brief testimony at stops on the tour from one or more witnesses concerning where the stops are located, what is visible at the stops and the relevance of the location and view to the facilities in the Application. No other discussion or deliberation concerning the Application will occur during the tour. Any testimony taken or comments made to or by the Committee during the tour will be recorded for transcription and made available as part of the hearing record.

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8/12/16

42.44

EXHIBIT

WWR-4

PENGAD 800-631-6969



# MOYES SELLERS & HENDRICKS

JAY I. MOYES • 602-604-2106 • jimoyes@law-msh.com  
1850 N. Central Avenue, Suite 1100 • Phoenix, AZ 85004 • fax 602.274.9135



August 2, 2016

**VIA CERTIFIED MAIL  
RETURN RECEIPT REQUESTED**

Yuma County Board of Supervisors  
198 S. Main Street  
Yuma, AZ 85364

Re: White Wing Ranch Gen-tie Project  
Docket No. L-00000ZZ-16-0269-00172  
Case No. 172

7003 1010 0002 2662 0341

**U.S. Postal Service™  
CERTIFIED MAIL™ RECEIPT**  
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at [www.usps.com](http://www.usps.com).

**OFFICIAL USE**

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Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

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Sent To: Yuma County Board of Supervisors  
Street, Apt. No., or PO Box No.: 198 S. Main St.  
City, State, ZIP+4: Yuma, AZ 85364

PS Form 3800, June 2002 See Reverse for Instructions

Dear Supervisors:

Pursuant to A.R.S. 40-360.04(A), enclosed is a copy of the Notice of Hearing before the Arizona Power Plant and Transmission Line Siting Committee and a copy of the Application of White Wing Ranch Gen-Tie Project for a Certificate of Environmental Compatibility, for the above-referenced project.

If you have any questions or need additional information, please feel free to contact us. Thank you.

Sincerely,

JIM/ikk  
Enclosure

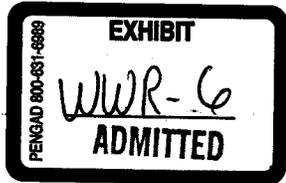
Cc: Docket Control  
Max Bakker  
Ian Calkins

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	<p>A. Signature X <u>RM [Signature]</u> <input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <u>B Villaneda</u> C. Date of Delivery <u>8-3-16</u></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If YES, enter delivery address below:</p>
<p>1. Article Addressed to: <u>Yuma County Board of Supervisors 198 S. Main St. Yuma, AZ 85364</u></p>	<p>3. Service Type</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Adult Signature</li> <li><input type="checkbox"/> Adult Signature Restricted Delivery</li> <li><input checked="" type="checkbox"/> Certified Mail®</li> <li><input type="checkbox"/> Certified Mail Restricted Delivery</li> <li><input type="checkbox"/> Collect on Delivery</li> <li><input type="checkbox"/> Collect on Delivery Restricted Delivery</li> <li><input type="checkbox"/> Insured Mail</li> <li><input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</li> <li><input type="checkbox"/> Priority Mail Express®</li> <li><input type="checkbox"/> Registered Mail™</li> <li><input type="checkbox"/> Registered Mail Restricted Delivery</li> <li><input checked="" type="checkbox"/> Return Receipt for Merchandise</li> <li><input type="checkbox"/> Signature Confirmation™</li> <li><input type="checkbox"/> Signature Confirmation Restricted Delivery</li> </ul>
<p>2. Article Number (Transfer from service label) 7003 1010 0002 2662 0341</p>	<p>9590 9402 1247 5246 8422 65</p>



# MOYES SELLERS & HENDRICKS

JAY I. MOYES • 602-604-2106 • jimoyes@law-msh.com  
1850 N. Central Avenue, Suite 1100 • Phoenix, AZ 85004 • fax 602.274.9135



August 2, 2016

**VIA CERTIFIED MAIL  
RETURN RECEIPT REQUESTED**

Dateland Elementary School  
1300 S. Avenue 64 E  
Dateland, AZ 85333

Re: White Wing Ranch Gen-tie Project  
Docket No. L-00000ZZ-16-0269-00172  
Case No. 172

HEED 2992 2000 0707 6002

**U.S. Postal Service™  
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Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To: Dateland Elementary School  
Street, Apt. No., or PO Box No. 1300 S. Avenue 64 E  
City, State, ZIP+4 Dateland AZ 85333

PS Form 3800, June 2002 See Reverse for Instructions

To whom it may concern:

Pursuant to A.R.S. 40-360.04(A), enclosed is a copy for your library of the Notice of Hearing before the Arizona Power Plant and Transmission Line Siting Committee and a copy of the Application of White Wing Ranch Gen-Tie Project for a Certificate of Environmental Compatibility, for the above-referenced project.

If you have any questions or need additional information, please feel free to contact us. Thank you.

Sincerely,

JIM/ikk  
Enclosure  
Cc: Docket Control  
Max Bakker  
Ian Calkins

1601 0002 2662 0334

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> <li>Complete Items 1, 2, and 3.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>		<p>A. Signature <u>Katherine Ponder</u> <input type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <u>Katherine Ponder</u> C. Date of Delivery <u>8/4/16</u></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If YES, enter delivery address below:</p>	
<p>1. Article Addressed to: <u>Dateland Elementary School</u> <u>1300 S Avenue 64 E</u> <u>Dateland, AZ 85333</u></p>		<p>3. Service Type  <input type="checkbox"/> Adult Signature  <input type="checkbox"/> Adult Signature Restricted Delivery  <input checked="" type="checkbox"/> Certified Mail®  <input type="checkbox"/> Certified Mail Restricted Delivery  <input type="checkbox"/> Collect on Delivery  <input type="checkbox"/> Collect on Delivery Restricted Delivery  <input type="checkbox"/> Insured Mail  <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)  <input type="checkbox"/> Priority Mail Express®  <input type="checkbox"/> Registered Mail™  <input type="checkbox"/> Registered Mail Restricted Delivery  <input checked="" type="checkbox"/> Return Receipt for Merchandise  <input type="checkbox"/> Signature Confirmation™  <input type="checkbox"/> Signature Confirmation Restricted Delivery</p>	
<p>2. Article Number (Transfer from service label) 9590 9402 1247 5246 8422 72</p>			



# MOYES SELLERS & HENDRICKS

JAY I. MOYES • 602-604-2106 • jimoyes@law-msh.com  
1850 N. Central Avenue, Suite 1100 • Phoenix, AZ 85004 • fax 602.274.9135



August 2, 2016

**VIA CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

Yuma County Library District  
2951 S. 21<sup>st</sup> Drive  
Yuma, AZ 85364

Re: White Wing Ranch Gen-tie Project  
Docket No. L-00000ZZ-16-0269-00172  
Case No. 172

U.S. Postal Service™  
**CERTIFIED MAIL™ RECEIPT**  
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

**OFFICIAL USE**

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Postmark Here

Sent To: *Yuma County Library Dist*  
Street, Apt. No., or PO Box No.: *2951 S. 21<sup>st</sup> DRIVE*  
City, State, ZIP+4: *Yuma, AZ 85364*

PS Form 3800, June 2002 See Reverse for Instructions

7003 1010 0002 2662 0327

To whom it may concern:

Pursuant to A.R.S. 40-360.04(A), enclosed is a copy of the Notice of Hearing before the Arizona Power Plant and Transmission Line Siting Committee and a copy of the Application of White Wing Ranch Gen-Tie Project for a Certificate of Environmental Compatibility, for the above-referenced project.

If you have any questions or need additional information, please feel free to contact us. Thank you.

Sincerely,

JIM/ikk  
Enclosure  
Cc: Docket Control  
Max Bakker  
Ian Calkins

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	<p>A. Signature X <i>Max Bakker</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by <i>Printed Name</i> <i>Max Bakker</i> C. Date of Delivery <i>8-5-16</i></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input type="checkbox"/> No If YES, enter delivery address below:</p>
<p>1. Article Addressed to: <i>Yuma County Library Dist</i> <i>2951 S. 21<sup>st</sup> DRIVE</i> <i>Yuma, AZ 85364</i></p>	<p>3. Service Type  <input type="checkbox"/> Adult Signature  <input type="checkbox"/> Adult Signature Restricted Delivery  <input checked="" type="checkbox"/> Certified Mail®  <input type="checkbox"/> Certified Mail Restricted Delivery  <input type="checkbox"/> Collect on Delivery  <input type="checkbox"/> Collect on Delivery Restricted Delivery  <input type="checkbox"/> Insured Mail  <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)  <input type="checkbox"/> Priority Mail Express®  <input type="checkbox"/> Registered Mail™  <input type="checkbox"/> Registered Mail Restricted Delivery  <input checked="" type="checkbox"/> Return Receipt for Merchandise  <input type="checkbox"/> Signature Confirmation™  <input type="checkbox"/> Signature Confirmation Restricted Delivery</p>
<p>2. Article Number (Transfer from service label)</p>	<p>9590 9402 1247 5246 8422 89</p>

AFFP  
WHITE WING GEN-TIE PROJECT

**Affidavit of Publication**

STATE OF ARIZONA } SS  
COUNTY OF YUMA }

Lisa Reilly or Kathy White, being duly sworn, says:

That she is Publisher or Business Manager of the Yuma Sun, a daily newspaper of general circulation, printed and published in Yuma, Yuma County, Arizona; that the publication, a copy of which is attached hereto, was published in the said newspaper on the following dates:

August 08, 2016, August 11, 2016

That said newspaper was regularly issued and circulated on those dates.

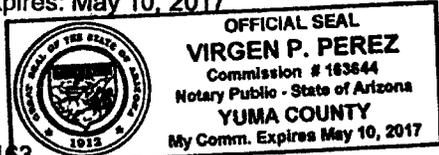
SIGNED:

*[Signature]*  
\_\_\_\_\_  
Publisher or Business Manager

Subscribed to and sworn to me this 11th day of August 2016.

*[Signature]*  
\_\_\_\_\_  
Virgen P Perez, Notary, Yuma County, Arizona

My commission expires: May 10, 2017



00008044 00098463

MOYES SELLERS & SIMS MOYES SELLERS  
MOYES SELLERS & SIMS  
1850 N. CENTRAL AVENUE #1100  
PHOENIX, AZ 85004

NOTICE OF HEARING  
Docket No. L-0000ZZ-16-0289-00172  
Case No. 172

**BEFORE THE ARIZONA POWER PLANT AND TRANSMISSION LINE SITING COMMITTEE**

In the matter of the Application of White Wing Ranch North, LLC, in conformance with the requirements of Arizona Revised Statutes 40-300.03 and 40-300.08, for a Certificate of Environmental Compatibility authorizing construction of the White Wing Gen-Tie Project, an approximately 3.5 mile gas-tie transmission line and associated substation facilities interconnecting to the existing Florio Wash Substation approximately 10 miles north and 3 miles east of Doleland, Yuma County, Arizona.

A PUBLIC HEARING WILL BE HELD before the Arizona Power Plant and Transmission Line Siting Committee ("Committee") regarding the Application of White Wing Ranch North, LLC, for a Certificate of Environmental Compatibility ("CEC") authorizing construction of one (1) approximately 3.5-mile long, either 500KV, 220KV or 115KV, gas-tie transmission line and up to two (2) associated substations (collectively, the "White Wing Gen-tie Project") interconnecting a proposed photovoltaic (PV) solar generating facility to the existing Florio Wash 500KV substation in Section 34 T5S, R12W, Q4SRM, Yuma County, approximately 10 miles north and 3 miles east of Doleland, Arizona.

The hearing will be held at the Hampton Inn & Suites -Yuma, located at 1600 E. 16th Street, Yuma, AZ 85365, Telephone: 925-229-5600. The hearing will begin on Monday, September 12, 2016 at 8:30 a.m. and as necessary continue on Tuesday, September 13, 2016 at 8:30 a.m. The hearing will adjourn at approximately 5:00 p.m. or earlier at the discretion of the Committee Chairman.

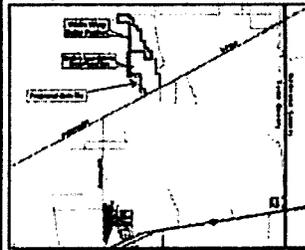
Additional hearings, if necessary, will be noticed on the White Wing Gen-Tie Project website at: www.WhiteWingGenTie.com and on the Arizona Corporation Commission ("ACC") website at: www.azcc.gov/AZ\_Power\_Plant/LineSiting-Calendar.asp.

**PUBLIC COMMENT MAY BE TAKEN AT THE BEGINNING OF EACH HEARING DAY OR AT OTHER TIMES AT THE DISCRETION OF THE COMMITTEE CHAIRMAN.**

The Chairman may, at his discretion, reconvene the hearing to a time and place to be announced during the hearing, or to be determined after the recess. The date, time and place at which the hearing will be reconvened will be posted on the above-noted White Wing Gen-tie Project website and the ACC website. **NOTE: NOTICE OF ANY SUCH RESUMED HEARING WILL BE GIVEN; HOWEVER, PUBLISHED NOTICE OF SUCH RESUMED HEARING IS NOT REQUIRED.**

The Committee, at its discretion, may tour the White Wing Gen-tie Project location on Monday, September 12, 2016, departing at approximately 1:30 p.m. from the Hampton Inn & Suites -Yuma, or at an alternate date and time as determined by the Chairman. The map and itinerary for the tour will be available at the hearing and posted on the White Wing Gen-tie Project website. Members of the public may follow the Committee on the tour in personal vehicles. During the tour the Committee may hear brief testimony at stops on the tour from one or more witnesses concerning where the stops are located, what is visible at the stops, and the relevance of the location and view to the facilities in the Application. No other discussion or deliberation concerning the Application will occur during the tour. Any testimony or comments made to or by the Committee during the tour will be recorded for transcription and made available as part of the hearing record.

The below map identifies the proposed location of the White Wing Gen-tie Project.



Copies of the Application, containing detailed maps of the White Wing Gen-tie Project site and detailed information about the proposed facilities, and copies of the transcripts will be available for inspection at the following locations:  
- Docket Control Center of the ACC Phoenix Office at 1200 West Washington Street, Suite 100, Phoenix, AZ 85007  
- Doleland Elementary School Library, 1300 S. Avenue 64 E, Doleland, AZ  
- Yuma County Main Public Library, 2991 S. 21st Drive, Yuma, AZ  
- White Wing Gen-tie Project website, www.WhiteWingGenTie.com

Each county and municipal government and state agency interested in the proposed White Wing Gen-tie Project and desiring to be a party to the proceedings shall, not less than ten days before the date set for hearing, file with the Director of Utilities, Arizona Corporation Commission, 1200 West Washington Street, Phoenix, Arizona 85007 a notice of intent to be a party.

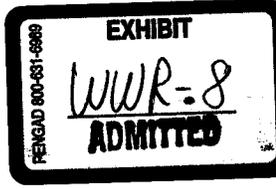
Any domestic non-profit corporation or association formed in whole or in part to promote conservation of natural beauty, to protect the environment, personal health or other biological values, to preserve historical sites, to promote consumer interests, to represent commercial and industrial groups, or to promote the orderly development of the area in which the White Wing Gen-tie Project are to be located and desiring to become a party to the proceedings shall, not less than ten days before the date set for hearing, file with the Director of Utilities, Arizona Corporation Commission, 1200 West Washington Street, Phoenix, Arizona 85007 a notice of intent to be a party.

The Committee or its Chairman, at any time deemed appropriate, may make other persons parties to the proceeding.

Any person may make a limited appearance at a hearing by filing a statement in writing with the Director of Utilities, Arizona Corporation Commission, 1200 West Washington Street, Phoenix, Arizona 85007, not less than five days before the date set for hearing. A person making a limited appearance shall not be a party or have the right to present testimony or cross-examine witnesses.

This proceeding is governed by Arizona Revised Statutes Sections 40-300 to 40-300.13 and Arizona Administrative Code R14-3-201 to R14-3-220. No substantive communication not in the public record may be made to any member of the Committee. The written decision of the Committee will be submitted to the Arizona Corporation Commission pursuant to Arizona Revised Statutes Section 40-360.07. Any person intending to be a party to the proceedings on these matters before the Arizona Corporation Commission must be a party to the proceedings before the Committee.

ORDERED this 2nd day of August, 2016,  
by **THOMAS K. CRENAL**,  
Thomas K. Crenal, Chairman  
Arizona Power Plant and Transmission  
Line Siting Committee  
Assistant Attorney General  
Daily August 8-11, 2016 - 00098463



AFFP  
 WHITE WING GEN-TIE PROJECT

**Affidavit of Publication**

STATE OF ARIZONA } SS  
 COUNTY OF YUMA }

Lisa Reilly or Kathy White, being duly sworn, says:

That she is Publisher or Business Manager of the Yuma Sun, a daily newspaper of general circulation, printed and published in Yuma, Yuma County, Arizona; that the publication, a copy of which is attached hereto, was published in the said newspaper on the following dates:

August 08, 2016, August 11, 2016

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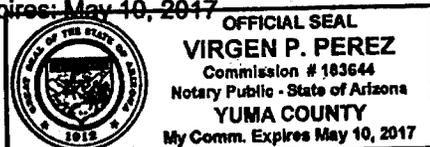
SIGNED:

*Kathy White*  
 Publisher or Business Manager

Subscribed to and sworn to me this 11th day of August 2016.

*Virgen P. Perez*  
 Virgen P Perez, Notary, Yuma County, Arizona

My commission expires: May 10, 2017



00008044 00098463

MOYES SELLERS & SIMS MOYES SELLERS  
 MOYES SELLERS & SIMS  
 1850 N. CENTRAL AVENUE #1100  
 PHOENIX, AZ 85004

**NOTICE OF HEARING**  
 Docket No. L-000022-16-0289-00172  
 Case No. 172  
 BEFORE THE ARIZONA POWER PLANT AND TRANSMISSION LINE SITING COMMITTEE

In the matter of the Application of White Wing Ranch North, LLC in conformance with the requirements of Arizona Revised Statutes 40-360.03 and 40-360.06 for a Certificate of Environmental Compatibility authorizing construction of the White Wing Gen-Tie Project, an approximately 3.5-mile per- to transmission line and associated substation facilities, interconnecting to the existing Hicogoa Wash Substation, approximately 10 miles north and 3 miles east of Dooland, Yuma County, Arizona.

**A PUBLIC HEARING WILL BE HELD** before the Arizona Power Plant and Transmission Line Siting Committee ("Committee") regarding the Application of White Wing Ranch North, LLC for a Certificate of Environmental Compatibility ("CEC") authorizing construction of one (1) approximately 3.5-mile long, either 500KV, 230KV or 115KV, gen-tie transmission line and up to two (2) associated substations (collectively, the "White Wing Gen-tie Project") interconnecting a proposed photovoltaic (PV) solar generating facility to the existing Hicogoa Wash Substation in Section 34, T5S, R12W, G6SRBM, Yuma County, approximately 10 miles north and 3 miles east of Dooland, Arizona.

The hearing will be held at the Hampton Inn & Suites - Yuma, located at 1000 E. 16th Street, Yuma, AZ 85305, Telephone: 528-209-5500. The hearing will begin on Monday, September 12, 2016 at 9:30 a.m. and as necessary continue on Tuesday, September 13, 2016 at 9:30 a.m. The hearing will adjourn at approximately 5:00 p.m. or earlier at the discretion of the Committee Chairman.

Additional hearings, if necessary, will be posted on the White Wing Gen-tie Project website at: [www.WhiteWingGenTie.com](http://www.WhiteWingGenTie.com) and on the Arizona Corporation Commission ("ACC") website at: [www.azcc.gov/AZ\\_Power\\_Plant/LineSiting-Calendar.asp](http://www.azcc.gov/AZ_Power_Plant/LineSiting-Calendar.asp)

**PUBLIC COMMENT MAY BE TAKEN AT THE BEGINNING OF EACH HEARING DAY OR AT OTHER TIMES DURING THE HEARING AT THE DISCRETION OF THE COMMITTEE CHAIRMAN.**

The Chairman may, at his discretion, recess the hearing to a later date and place to be announced during the hearing, or to be determined after the recess. The date, time and place at which the hearing will be resumed will be posted on the above-noted White Wing Gen-tie Project website and the ACC website. **NOTE: NOTICE OF ANY SUCH RESUMED HEARING WILL BE GIVEN, HOWEVER, PUBLISHED NOTICE OF SUCH RESUMED HEARING IS NOT REQUIRED.**

The Committee, at its discretion, may tour the White Wing Gen-tie Project location on Monday, September 12, 2016, departing at approximately 1:30 p.m. from the Hampton Inn & Suites - Yuma, at an alternate date and time as determined by the Chairman. The map and itinerary for the tour will be available at the hearing and posted on the White Wing Gen-tie Project website. Members of the public may follow the Committee on the tour in personal vehicles. During the tour the Committee may hear brief testimony of statements from the tour from one or more witnesses concerning where the sites are located, what is visible at the sites, and the relevance of the location and view to the facilities in the Application. No other discussion or deliberation concerning the Application will occur during the tour. Any testimony given or comments made in or by the Committee during the tour will be recorded for transcription and made available as part of the hearing record.

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- White Wing Gen-tie Project website, [www.WhiteWingGenTie.com](http://www.WhiteWingGenTie.com)

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Any domestic non-profit corporation or association formed in whole or in part to promote conservation of natural beauty, to protect the environment, personal health or other biological values, to preserve historical sites, to promote consumer interests, to represent commercial and industrial groups, or to promote the orderly development of the areas in which the White Wing Gen-tie Project are to be located and desiring to become a party to the proceedings shall, not less than ten days before the date set for hearing, file with the Director of Utilities, Arizona Corporation Commission, 1200 West Washington Street, Phoenix, Arizona 85007 a notice of intent to be a party.

The Committee or its Chairman, at any time deemed appropriate, may make other persons parties to the proceeding.

Any person may make a limited appearance at a hearing by filing a statement in writing with the Director of Utilities, Arizona Corporation Commission, 1200 West Washington Street, Phoenix, Arizona 85007, not less than five days before the date set for hearing. A person making a limited appearance shall not be a party or have the right to present testimony or cross-examine witnesses.

This proceeding is governed by Arizona Revised Statutes Sections 40-360 to 40-360.13 and Arizona Administrative Code R14-3-201 to R14-3-220. No substantive communication not in the public record may be made to any member of the Committee. The written decision of the Committee will be submitted to the Arizona Corporation Commission pursuant to Arizona Revised Statutes Section 40-360.07. Any person intending to be a party to the proceedings on these matters before the Arizona Corporation Commission must be a party to the proceedings before the Committee.

ORDERED this 2nd day of August, 2016.  
*THOMAS K. CHENAL*  
 Thomas K. Chenal, Chairman  
 Arizona Power Plant and Transmission  
 Line Siting Committee  
 Assistant Attorney General  
 Daily August 8, 11, 2016 - 00098463

**M SH** MOYES SELLERS & HENDRICKS

JAY I. MOYES • 602-604-2106 • jimoyes@law-msh.com  
1850 N. Central Avenue, Suite 1100 • Phoenix, AZ 85004 • fax 602.274.9135

August 9, 2016

**VIA HAND DELIVERY**

Peter Vasquez  
Business Office  
Arizona Corporation Commission  
1300 W. Washington  
Phoenix, AZ 85003

RE: White Wing Ranch North, LLC Gen-tie Project; Docket No. L-00000ZZ-16-0269-00172,  
Case No. 172; Financial Arrangements for Line Siting Committee Expenses

Dear Sir or Madam:

Pursuant to A.R.S. § 40-360.10, on August 1, 2016, we delivered to the Commission Business Office a check for \$1000 payable to the Arizona Power Plant & Transmission Line Siting Committee to cover the statutory filing fee in the above-referenced docket. On August 8, 2016, Chairman Thomas Chenal of the Line Siting Committee issued a Procedural Order which included the following order:

5. The Applicant shall contact the appropriate member of the staff of the Commission, and advise them of the Applicant's position concerning reimbursement of the Line Siting Fund should the expenses of the hearings exceed the application fee, and discuss financial arrangements regarding hotel reservations and other expenses of the Line Siting Committee Members. A.R.S. § 40-360.10. The Applicant shall advise the Chairman of the results of these discussions so the necessary information may be communicated to the Line Siting Committee Members.

In accordance with the Chairman's order, we are writing this letter to confirm that, to the extent additional funds are needed to meet expenses incurred by the Line Siting Committee in accordance with A.R.S. § 40-360.10, we are prepared to provide on behalf of the Applicant the additional check(s) to the Utility Siting Fund as necessary to cover the reimbursement of such expenses. Please contact us at any time with questions. We will expect to hear from you in this regard upon conclusion of the Committee's activities in this docket.

Respectfully yours,



Jay I. Moyes

JIM/lkk

: via email  
Chairman Chenal  
Thomas Broderick  
Max Bakker





1 ORIGINAL & 25 copies of the  
2 foregoing were filed with Docket  
3 Control on the 3rd day of August, 2016.

4 Copies were delivered by U.S. Mail  
5 and electronic mail the 3<sup>rd</sup>  
6 day of August, 2016, to:

7 Thomas Chenal, Chairman  
8 Arizona Power Plant and Transmission  
9 Line Siting Committee  
10 15 S. 15<sup>th</sup> Avenue  
11 Phoenix, AZ 85007  
12 [Thomas.Chenal@azag.gov](mailto:Thomas.Chenal@azag.gov)

13 Coash & Coash Inc.  
14 1802 N. 7<sup>th</sup> Street  
15 Phoenix, AZ 85006  
16 [staff@coashandcoash.com](mailto:staff@coashandcoash.com)

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24  
25  
26  


ORIGINAL

00001001

1 Jason Y. Moyes, No. 025864  
2 Jay I. Moyes, No. 07207  
3 MOYES SELLERS & HENDRICKS LTD.  
4 1850 N. Central Avenue, Suite 1100  
5 Phoenix, Arizona 85004  
6 (602)-604-2139  
7 (602)-604-2106  
8 jasonmoyes@law-msh.com  
9 jimoyes@law-msh.com  
10 Attorneys for White Wing Ranch North, LLC

RECEIVED

2016 JAN 29 P 4: 21

AZ CORP COMMISSION  
DOCKET CONTROL

BEFORE THE ARIZONA CORPORATION COMMISSION

COMMISSIONERS

13 DOUG LITTLE, ACTING CHAIRMAN  
14 BOB STUMP  
15 TOM FORESE  
16 BOB BURNS

Arizona Corporation Commission  
DOCKETED

JAN 29 2016

DOCKETED BY *[Signature]*

17 IN THE MATTER OF  
18 WHITE WING RANCH NORTH, LLC'S  
19 TEN YEAR PLAN

Docket No. E-00000D-15-0001

NOTICE OF FILING TEN YEAR PLAN

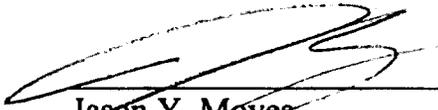
22 In accordance with Section 40-360.02 of the Arizona Revised Statutes, White  
23 Wing Ranch North, LLC, files its Ten Year Plan for the substation and gen-tie  
24 transmission facilities associated with the proposed White Wing Solar Project, including  
25 the System Impact Study prepared with respect to such facilities.  
26  
27

28 ////

EXHIBIT  
*WWR-11*  
ADMITTED  
RENGAD 800-687-6889

1 DATED this 29<sup>th</sup> day of January, 2016.

2 **MOYES SELLERS & HENDRICKS LTD.**

3  
4   
5 \_\_\_\_\_  
6 Jason Y. Moyes

7 Jay I. Moyes  
8 Attorneys for White Wing Ranch North, LLC

9 Original and 13 copies filed this  
10 29<sup>th</sup> day of January, 2016:

11 Docket Control  
12 Arizona Corporation Commission  
13 1200 West Washington Street  
14 Phoenix, Arizona 85007

15   
16 \_\_\_\_\_

**WHITE WING RANCH NORTH, LLC**  
**Ten Year Plan**  
For Proposed Transmission Facilities  
(in-service as early as 2018)

---

Line Description

White Wing Solar Project Substation and Gen-tie Line

Size

- **Voltage** 34.5/500kV step up transformers and approximately 3 miles of 500kV AC gen-tie transmission line from the high side of the step up transformer to the existing Hoodoo Wash Substation adjacent to the Agua Caliente solar facility in Yuma County, AZ.
- **Capacity** Gen-tie will only serve an estimated 200MW photovoltaic solar generating facility.
- **Point of Origin** A 34.5/500kV substation to be constructed at the White Wing Solar Project, a photovoltaic solar generating facility proposed for development on approximately 1,450 gross acres located north of and adjacent to the existing Agua Caliente solar facility, north of Palomas Road between Avenue 66E and Avenue 68E, Dateland, Yuma County, Arizona.
- **Termination Point** The existing Hoodoo Wash Substation.
- **Length** Approximately 3 miles, depending upon the final route and location of the new substation within the proposed White Wing Solar Project.
- **General Route** TBD. See attached map of proposed routes. The gen-tie line will run generally from the new substation to be located on the White Wing Solar Project, southerly approximately 3 miles directly into the existing Hoodoo Wash Substation.
- **Purpose** The new step-up substation and gen-tie line will interconnect the proposed White Wing Solar Project generation with the regional transmission grid at the existing Hoodoo Wash Substation.

Date

- Estimated Construction Start      TBD [As early as Q-1 of 2017]
- Estimated In-Service              TBD [As early as Q-4 of 2018]
- Is Certificate Necessary?          Yes, for substation and 500kV gen-tie.

System Impact Study:      See attached System Impact Study Report prepared for Arizona Public Service Company by Utilities System Efficiencies, Inc.

END

(Not reprinted here due to extensive volume)



# **Q225 White Wing Ranch Solar Generator Interconnection Project**

## **System Impact Study**

APS Contract No. 52790

**By**

**Arizona Public Service Company  
Transmission Planning**

**November 12, 2015**

**Version 1.1**

**Prepared by  
Utility System Efficiencies, Inc.**

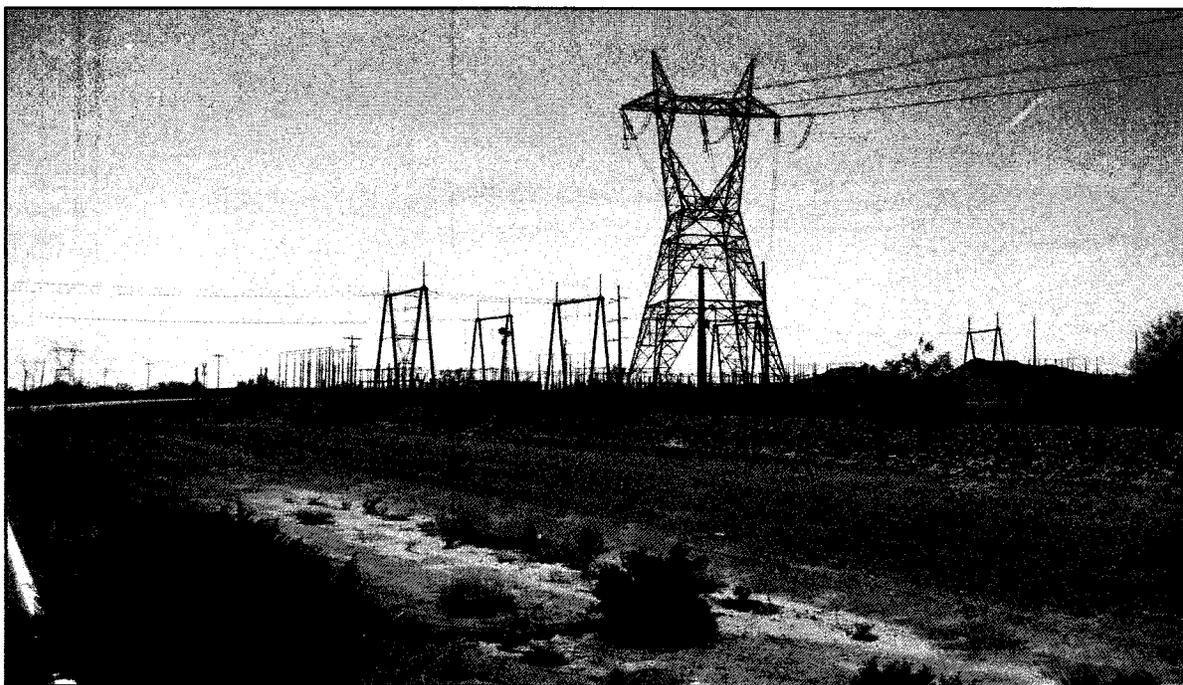
**NEW APPLICATION**

**Application for**

**CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY**

L-00000ZZ-16-0269-00172

**WHITE WING  
GEN-TIE PROJECT**

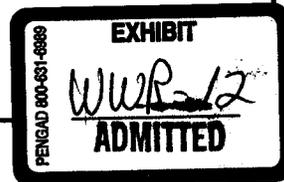


**Submitted By:**

White Wing Ranch North, LLC

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*August 2016*



Application  
for a  
Certificate of Environmental Compatibility

**WHITE WING GEN-TIE PROJECT**

Prepared for:  
**Arizona Corporation Commission**  
**Arizona Power Plant and Transmission Line Siting Committee**

Submitted by:  
**White Wing Ranch North, LLC**

Date: \_\_\_\_\_

Case No. \_\_\_\_\_



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# Acronyms

# ACRONYMS

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AC	Alternating Current
ACC	Arizona Corporation Commission
AGFD	Arizona Game and Fish Department
ASM	Arizona State Museum
AZDA	Arizona Department of Agriculture
BLM	Bureau of Land Management
CEC	Certificate of Environmental Compatibility
dB	Decibels
dBA	A-weighted decibels
DC	Direct Current
EPA	Environmental Protection Agency
ESA	Endangered Species Act of 1973
G&SRB&M	Gila & Salt River Base & Meridian
GIS	Geographic Information System
HANG2	Hassayampa – North Gila 2 500 kV Transmission Line
KOP	Key Observation Point
kV	Kilovolt
Ldn	Average A-weighted sound level for a 24-hour period
Leq	Equivalent sound pressure level
MW	Megawatt
NPL	Native Plant Law
O&M	Operations and Maintenance
PEP	Project Evaluation Program
PV	Photovoltaic
RA	Rural Area
RDEP	Restoration Design Energy Project
RMP	Resource Management Plan
RMZ	Recreation Management Zone
ROW	Right(s) of Way
SEZ	Solar Energy Zone
SGCN	Species of Greatest Conservation Need
SHPO	State Historic Preservation Office
SUP	Special Use Permit
USFWS	United States Fish and Wildlife Service
VC	Viewer Concern
VE	Viewer Exposure
VRM	Visual Resource Management
VQ	Visual Quality

# Executive Summary

# EXECUTIVE SUMMARY

---

This Application is for a Certificate of Environmental Compatibility (“CEC”) authorizing construction of the White Wing Gen-tie Project, a 3.5-mile 500 to 115 kV gen-tie line and associated substation interconnections (the “Gen-tie Project” or “Project”). The Project will interconnect the White Wing Solar Project, an approved solar generating facility using photovoltaic (PV) technology (the “Solar Facility”), to the existing Hoodoo Wash Substation.

The following is an overview description of the Project:

The Project will be located about ten (10) miles north and three (3) miles east of Dateland, Arizona (see **Figure ES-1, Project Location Map**). It will be located primarily on federal lands managed by the Bureau of Land Management (“BLM”) in Sections 16, 17, 20, 28, 29, 33, and 34, T5S, R12W, G&SRBM, Yuma County, Arizona. The Project will also include up to two new substations located on private lands (see **Figure ES-2, Proposed Gen-tie Route**).

The Gen-tie Project will originate at a new substation (the “Solar Site Substation”) located on the southwest corner of the Solar Facility site. There, the electricity produced by the Solar Facility will be transformed from 34.5kV to either 500kV, 230kV or 115kV. The Gen-tie Project will, accordingly, be constructed at the same high voltage.

From the Solar Site Substation in Section 16, T5S, R12W, the Gen-tie Project will immediately enter BLM-administered lands within the BLM-designated Agua Caliente Solar Energy Zone (“SEZ”) in Section 17. The proposed BLM right of way (“ROW”) will travel south along the boundary between BLM land and the private land on which the existing Agua Caliente Solar Project is located. After following the private/BLM boundary south and east for approximately three and a half (3.5) miles on BLM land, the Project will re-enter private land near the existing Hoodoo Wash Substation in Section 34. The ROW will be up to 300 feet wide and the ROW grant issued by BLM will be for a 50-year term.

If the Solar Site Substation and Gen-tie Project are constructed at less than 500kV, then a second new substation (the “Step-up Substation”) will be constructed adjacent to the Hoodoo Wash Substation to transform the power to 500kV, and a short 500kV line will connect the Step-up Substation to the adjacent Hoodoo Wash Substation 500kV bus.

Access to the Project area will be via the Dateland interchange on Interstate-8, then nine (9) miles north on Avenue 64E, then approximately four (4) miles northeast on Palomas/Hyder Road. Access to the Gen-tie Project on BLM land will be provided by a new access road within the BLM ROW, constructed in accordance with BLM standards. Access to that road will be provided via the private lands at each end of the BLM ROW and local existing BLM roads.

Finally, the Project will include a communications system consisting of a fiber optic network necessary for control and protection of the transmission system. Substation sites will be secured with security fencing and access restrictions consistent with industry standards.

The Applicant believes that it is beneficial to the State of Arizona to issue a CEC for this simple Gen-tie Project at the proposed location for the following reasons:

- The Project will interconnect the White Wing PV Solar Facility to the regional grid, making clean, renewable energy available to regional utilities and customers.
- There will be socioeconomic benefits to the region from the Gen-tie Project.
- The Project is located on BLM-managed land designated for solar and utility line uses and is adjacent to and near existing solar, transmission, and substation facilities.
- The two Project endpoints are on private lands approved for solar and substation uses through Special Use Permits (SUPs) issued by Yuma County.
- The nearest existing residences are located approximately one and a half (1.5) miles from the Project location. There are no active residential developments and no currently active or new planned subdivisions near the Project site.
- No critical habitat will be affected by the Project and there will be no significant impacts to any threatened or endangered species, or other significant environmental impacts.

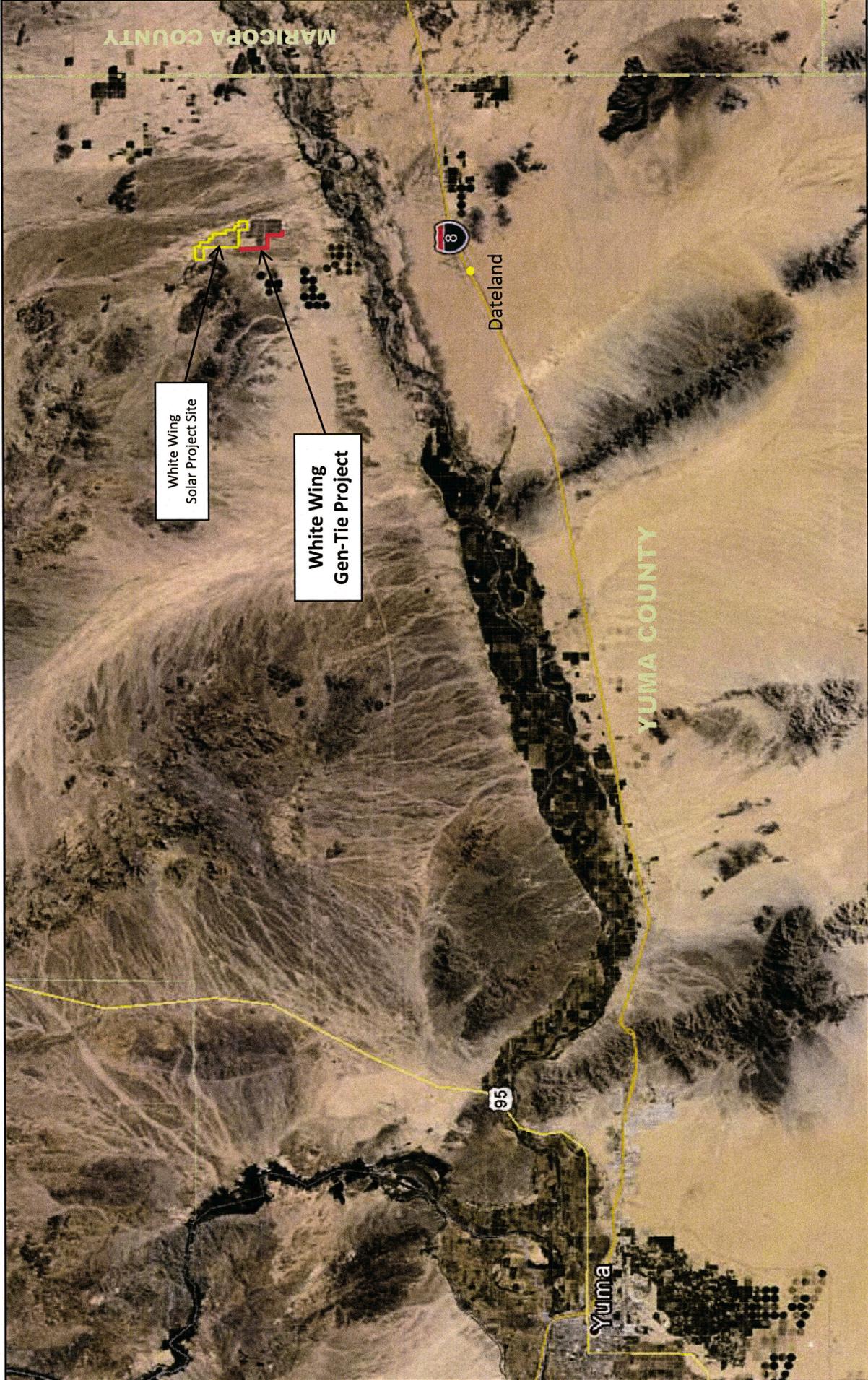
The studies and analyses for this Project show that there will be no significant direct, indirect or cumulative adverse effects on land use, cultural resources, wilderness areas, biological resources, special interest wildlife and plant species, ground or surface water quality, earth and soil resources, air quality, or noise. No significant impacts to minority or low income populations are expected to occur.

In the short-term, the construction work force can be expected to increase revenues in the retail and service sectors of the local and state economy. In the long-term, the available power interconnecting through the Gen-tie Project to the local electric transmission system will provide a more robust and reliable electric service system and will help meet the demand for clean, affordable, renewable energy, as well as reduce the dependence on fossil fuels.

The Applicant submits that the White Wing Gen-tie Project and its proposed location are environmentally compatible, and respectively requests approval of this Application.

The below Application is organized to fully describe the proposed Gen-tie Project and each issue of environmental compatibility, as prescribed by applicable statute and regulation.

In addition, a brief summary of the proposed White Wing Solar Facility is presented, as a matter of information only, to provide context for the proposed Gen-tie Project interconnection facilities that are the jurisdictional subject of this Application.



**Figure ES-1**  
**White Wing Gen-Tie Project**  
Project Location



R12W

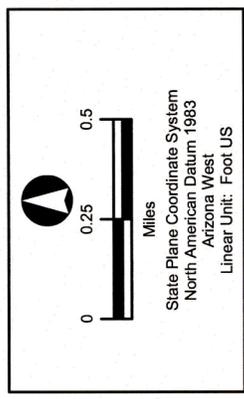
T6S



### Legend

- ▲ Existing Substation
- Structure Location
- ⋯ Proposed Gen-Tie Line Route
- Existing 500 kV Transmission Line
- Railroad
- ▭ Proposed White Wing Solar Project Location
- ▭ Proposed Gen-Tie Line ROW
- ▭ Proposed Substation
- ▨ Agua Caliente SEZ
- ▨ BLM Designated Utility Corridor
- ▭ Township / Range Boundary
- ▭ Section Boundary
- ▭ Jurisdictional Land Ownership
- ▭ Bureau of Land Management Land
- ▭ State Land

Figure ES-2



<b>WHITE WING GEN-TIE PROJECT</b>	
<b>Proposed Gen-Tie Route</b>	
Map Extent: Yuma County, Arizona	
Date: 06.27.16	Author: slw

# Application Form

# APPLICATION

---

**1. NAME AND ADDRESS OF THE APPLICANT, OR IN THE CASE OF A JOINT PROJECT, THE APPLICANTS:**

White Wing Ranch North, LLC  
135 Main Street, 6<sup>th</sup> floor  
San Francisco, CA 94105

**2. NAME, ADDRESS, AND TELEPHONE NUMBER OF A REPRESENTATIVE OF THE APPLICANT WHO HAS ACCESS TO TECHNICAL KNOWLEDGE AND BACKGROUND INFORMATION CONCERNING THIS APPLICATION IN QUESTION AND WHO WILL BE AVAILABLE TO ANSWER QUESTIONS OR FURNISH ADDITIONAL INFORMATION:**

Max Bakker, Project Developer  
First Solar  
135 Main Street, 6<sup>th</sup> floor  
San Francisco, CA 94105  
415-471-0375  
Max.Bakker@FirstSolar.com

With a copy to:  
Ms. Beth Deane, General Counsel  
First Solar  
135 Main Street - 6th Floor  
San Francisco, CA 94105

**3. STATE EACH DATE ON WHICH THE APPLICANT FILED A TEN-YEAR PLAN IN COMPLIANCE WITH A.R.S. §40-360.02 AND DESIGNATE EACH SUCH FILING IN WHICH THE FACILITIES FOR WHICH THIS APPLICATION IS MADE WERE DESCRIBED. IF THEY HAVE NOT BEEN PREVIOUSLY DESCRIBED IN A TEN-YEAR PLAN, STATE THE REASONS THEREFOR:**

White Wing Ranch North, LLC filed a Ten-Year Plan for the subject transmission line and associated substation(s) in compliance with ARS 40-360.02 on January 29, 2016.

**4. DESCRIPTION OF THE PROPOSED FACILITY, INCLUDING:**

**4.a. With respect to an electric generating plant:**

Not applicable, as the proposed facility does not constitute a plant.

**4.b. With respect to a proposed transmission line:**

**4.b.i. Nominal voltage for which the line is designed; description of the proposed structures and switchyards or substations associated therewith; and purpose for constructing said transmission line.**

- The nominal voltage of the proposed Gen-tie Project will be either 500kV, 230kV, or 115kV. The final interconnection voltage at the existing Hoodoo Wash Substation will be 500kV. The electrical one-line diagrams of the proposed on-site substations and the connections to the Step-up Substation and adjacent Hoodoo Wash Substation are shown on **Figures 4-1 through 4-3** respectively.
- The proposed structures associated with the Project consist of a new substation to transform power from 34.5kV to either 500kV, 230kV or 115kV (the "Solar Site Substation") and an approximately 3.5-mile 500kV, 230kV or 115kV gen-tie line (the "Gen-tie Line") originating at the Solar Site Substation and interconnecting with the existing Hoodoo Wash Substation. If the Solar Site Substation and the Gen-tie Line are constructed at voltage below 500kV, an additional substation providing transformation stepping up to 500kV (the "Step-up Substation") will be constructed on private lands immediately west of the existing Hoodoo Wash Substation. (The Solar Site Substation, the Gen-tie Line and the Step-up Substation are collectively referred to as the "Project" or "Gen-tie Project".) The conceptual layout of these facilities is depicted on **Figure 4-4, Proposed White Wing Gen-tie Project Route**.
- The purpose for constructing the Gen-tie Project is to interconnect a proposed photovoltaic solar generating facility known as the White Wing Solar Project (the "Solar Facility") with the regional transmission grid by means of the existing Hoodoo Wash Substation. The Solar Facility will have electrical collection systems that deliver the energy generated to the Solar Site Substation at 34.5kV. At the Solar Site Substation, the electricity

will be stepped up to the voltage of the Gen-tie Line (500kV, 230kV, or 115 kV). A brief informational summary of the proposed Solar Facility is presented in Paragraph 4.c. below.

**4.b.ii. Description of geographical points between which the transmission line will run, the straight-line distance between such points and the length of the transmission line for each alternative route for which the application is made:**

- The Gen-tie Line will originate at the Solar Site Substation, which will be located on the southwest corner of the Solar Facility site, in Section 16, T5S, R12W, G&SRB&M. From there, the Gen-tie Line will head south, and then east, to the Step-up Substation and/or ultimately terminating at the existing Hoodoo Wash Substation located in Section 34 of the same township, immediately south of the existing Agua Caliente Solar Project. See **Figure 4-5** for the location of the interconnection into the Hoodoo Wash Substation where the line would terminate at a new A-Frame structure (see **Figure G-5**). If the Step-up Substation is constructed, a short 500 kV line approximately 1000 feet long would run east from the Step-Up Substation to the Hoodoo Wash Substation. This line would require one turning structure as shown on **Figure G-1b**.
- The straight-line distance of the Gen-tie Line will be approximately three (3) miles.
- Applicant is not requesting approval of any alternative routes for the Gen-tie Line.

**4.b.iii. Nominal width of right-of-way required, nominal length of spans, maximum height of supporting structures and minimum height of conductor above ground:**

- The right-of-way required for the Gen-tie Line between the Solar Site Substation and the Hoodoo Wash Substation will be up to 300 feet wide.
- The Gen-tie Line will be comprised of approximately 25 spans between the Solar Site Substation and the Hoodoo Wash Substation, depending upon the final voltage selection; accordingly, span lengths will typically be between 800 and 1400 feet, resulting in about 4 to 7 structures per mile of line.

- Support structure heights will range from approximately 100 to 150 feet, varying with terrain, and depending upon the final voltage selection and associated span lengths.
- The Gen-tie Line will be designed to maintain phase-phase, phase-ground clearances per the final voltage and all applicable codes and standards.

**4.b.iv. To the extent available, the estimated costs of the proposed transmission line and route, stated separately. (If application contains alternative routes, furnish an estimate for each route and a brief description of the reasons for any variations in such estimates:**

- The presently estimated cost for the Gen-tie Project facilities is \$20 million to \$27 million, depending on the ultimate voltage and substation configuration.

**4.b.v. Description of proposed route and switchyard locations. (If application contains alternative routes, list routes in order of applicant's preference with a summary of reasons for such order of preference and any changes such alternative routes would require in the plans reflected in (i) through (iv) hereof):**

- The Gen-tie Project will be located in Sections 16, 17, 20, 28, 29, 33 and 34, T5S, R12W, G&SRB&M, Yuma County, approximately ten (10) miles north of Dateland, Arizona (See **FigureES-1, Project Location Map**).
- The proposed route for the Gen-tie Line will originate on private lands in Section 16, T5S, R12W at the Solar Site Substation, which will be located on the southwest corner of the Solar Facility. From the Solar Site Substation, the Gen-tie Line will immediately enter federal lands administered by the Bureau of Land Management ("BLM") in Section 17, T5S, R12W and head south for approximately three and a half (3.5) miles along the western boundary of the existing Agua Caliente Solar Project. At its southern terminus, the Gen-tie Line will re-enter private land near the existing Hoodoo Wash Substation in Section 34, T5S, R12W (See **Figure 4-4, Proposed White Wing Gen-Tie Project Route**).

- Access to the Gen-Tie Project area will be via the Dateland interchange on Interstate-8 at Dateland, Arizona, then nine (9) miles north on Avenue 64E, then approximately four (4) miles east on Palomas Road.

**4.b.vi. For each alternative route for which application is made, list the ownership percentages of land traversed by the entire route (federal, state, Indian, private, etc.):**

- The Project will be located primarily on federal land managed by the BLM. The endpoints of the Project—the Solar Site Substation and the Step-up Substation—will be located on private lands. The approximate respective ownership percentages are: BLM, 91 %; private, 9 %.
- The Solar Site Substation will be located on the proposed Solar Facility, which is owned by the Applicant.
- The Applicant has filed a ROW application with the BLM for the federal lands that the Gen-tie Line will traverse.
- The Applicant has already obtained a ROW to cross the small parcel of private land just west of the existing Hoodoo Wash Substation where the Step-up Substation will be constructed, if needed, and the Gen-tie Project will interconnect to the regional high-voltage transmission grid via the existing Hoodoo Wash Substation.

**4.c. White Wing Solar Facility Informational Overview:**

As indicated above, the following information generally describes the proposed White Wing Solar Project to provide context for the gen-tie electrical interconnection facilities that are the subject of this Application.

The White Wing Solar Project (“Solar Facility”) is a 210 MW photovoltaic (PV) solar energy generating facility proposed to be constructed on approximately 1,450 acres of private lands north of and adjacent to the existing 290 MW Agua Caliente Solar Project. The new Solar Facility will be located on the northern portion of the private agricultural property previously known as the White Wing Ranch.

This area is an unincorporated part of Yuma County. The Solar Facility site and surrounding area is zoned Rural Area (RA)-40 by Yuma County. The RA-40 zoning

allows as special uses the type of public or private utility installations for electric generating or transmission facilities that are involved in this Project. The planned land use for this area is Agriculture / Rural Preservation (A-RP). On March 7, 2016, Yuma County approved a Special Use Permit (SUP) allowing development of the Solar Facility.

The Solar Facility will utilize First Solar's thin-film PV modules to produce clean, renewable energy. The PV panels will be mounted on single-axis horizontal trackers and oriented in north-south rows with the panels moving to track the sun as it moves across the sky during the day. The trackers include low voltage electric drive motors, controller equipment, backup power supplies, meteorological stations, and anemometers. At full build-out, the Solar Facility site will have approximately 900 acres covered by PV solar panel arrays.

The major equipment in the Solar Facility includes the following:

- First Solar PV modules
- Single-axis tracking supports
- Power Conversion Stations ("PCS") to convert DC to AC
- A DC collection system comprised of underground DC cabling and combiner boxes
- A medium voltage (34.5 kV) collection system from the PCS locations to the Solar Site Substation
- Photovoltaic Combining Switchgear or sectionalizing cabinets
- The Solar Site Substation with 34.5 kV to 500 kV high voltage step-up transformer (SUT), breakers, and associated substation equipment
- Meteorological stations
- A possible operation and maintenance ("O&M") building with parking
- Telecommunications equipment

During construction, the Solar Facility will employ an estimated 350 to 500 workers on-site per month. Once operational, the Solar Facility will require a total of four (4) full-time, on-site employees. PV solar energy generating facilities require a limited amount of maintenance. Employee activities would include periodic inspections, PV panel maintenance, dust control, weed control, maintaining electrical collection system components, and maintaining on-site infrastructure, *e.g.*, driveways, drainage channels, and retention basins.

Once constructed, the Solar Facility will require only nominal water use for employee sanitation purposes in the O&M facilities, which may include a septic system. Construction water for dust control, etc., as well as all subsequent O&M

water requirements will be supplied by existing on-site wells owned by the Applicant.

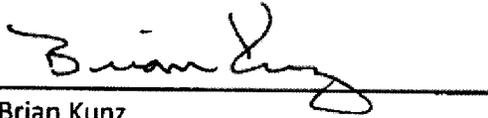
Because the Solar Facility will be located on property that has been previously tilled and leveled for irrigated agricultural production, very little new grading will be required on-site. The design and construction of all buildings, solar arrays, and associated infrastructure will be consistent with Yuma County building standards. **Figure 4-6** provides the approved site plan for the Solar Facility.

**5. LIST THE AREAS OF JURISDICTION [AS DEFINED IN A.R.S. § 40-360(1)] AFFECTED BY EACH ALTERNATIVE SITE OR ROUTE AND DESIGNATE THOSE PROPOSED SITES OR ROUTES, IF ANY, WHICH ARE CONTRARY TO THE ZONING ORDINANCES OR MASTER PLANS OR ANY SUCH AREAS OF JURISDICTION:**

The White Wing Gen-Tie Project is located on federal land administered by the BLM and on private lands in an unincorporated portion of Yuma County. The proposed Gen-Tie Project is not contrary to land management direction provided by the BLM nor any zoning ordinances or comprehensive plans of Yuma County as described in **Exhibit A**.

**6. DESCRIBE ANY ENVIRONMENTAL STUDIES APPLICANT HAS PERFORMED OR CAUSED TO BE PERFORMED IN CONNECTION WITH THIS APPLICATION OR INTENDS TO PERFORM OR CAUSE TO BE PERFORMED IN SUCH CONNECTION, INCLUDING THE CONTEMPLATED DATE OF COMPLETION.**

The Applicant has conducted studies to evaluate potential impacts associated with the Gen-tie Project on land use, biological resources, cultural and historical resources, visual resources, recreation, noise / communication signals, and existing plans in the area. The results of these analyses are included in the Exhibits to this Application.



Brian Kunz  
White Wing Ranch North, LLC

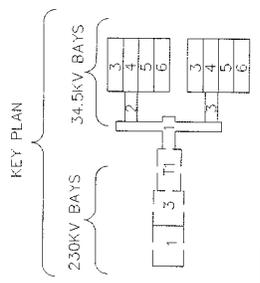
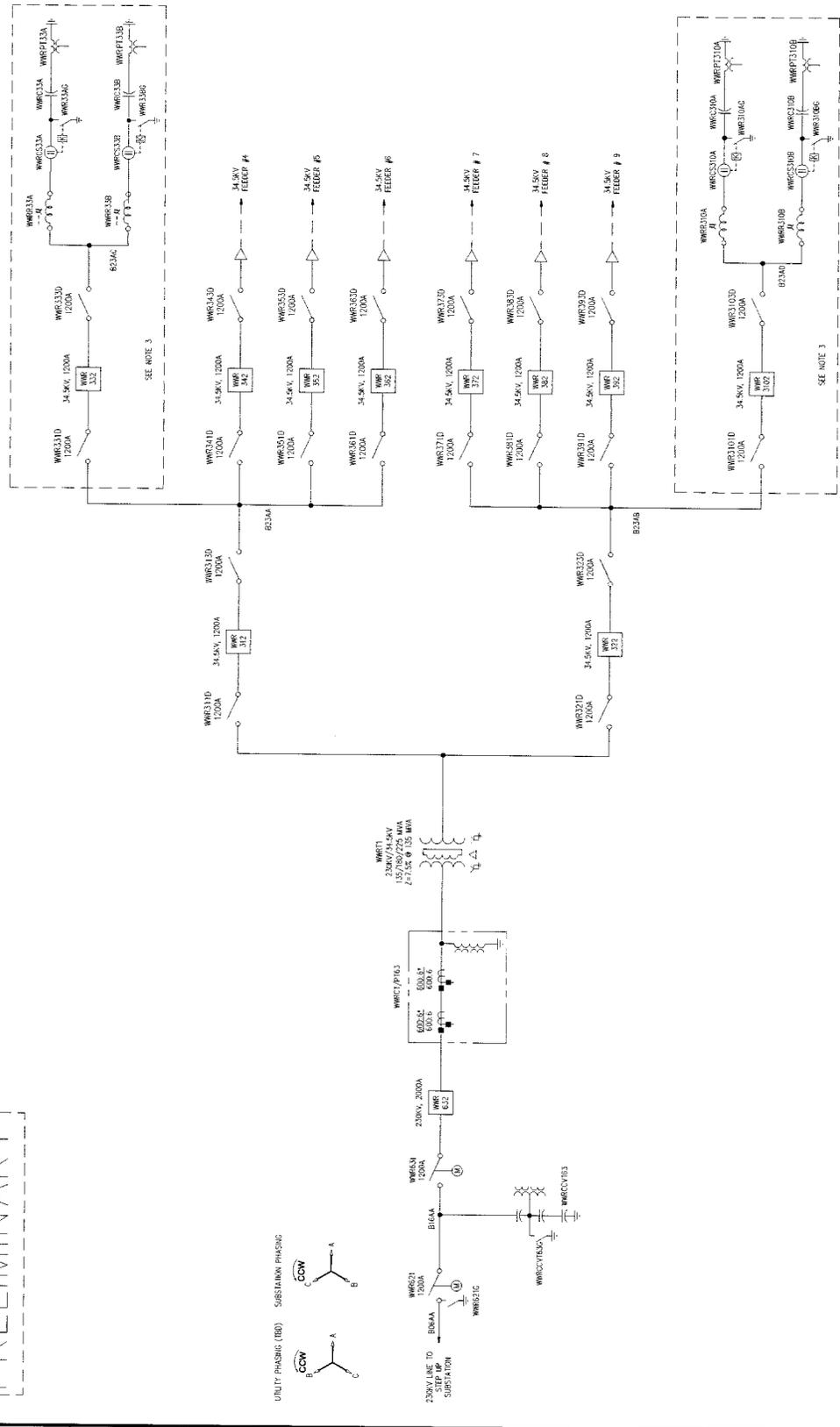
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ORIGINAL and 25 copies of the foregoing hand delivered and filed with the Director of Utilities, Arizona Corporation Commission, this 12 day of August, 2016.





PRELIMINARY



- NOTES:**
1. SUBSTATION LAYOUT, ARRANGEMENT, RATINGS AND PHASING MAY VARY DEPENDING ON SPECIFIC SITE REQUIREMENTS, AND SHALL BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE PROJECT ENGINEER.
  2. STATION SERVICE ARRANGEMENTS MAY VARY DEPENDING ON SITE AND UTILITY REQUIREMENTS.
  3. CMB BANK SIZE AND REQUIRED NUMBER OF STEPS TO BE DETERMINED BASED ON SYSTEM STUDIES.

DEVICE	DESCRIPTION
	CAPACITOR COUPLED VOLTAGE TRANSFORMER WITH GROUND SWITCH
	CAPACITOR BANK
	CIRCUIT BREAKER
	CONNECTION
	C/PPT GMSD ATC UNIT
	CURRENT TRANSFORMER
	DELTA
	GROUND WITH GROUND SWITCH
	GROUND WITH GROUND SWITCH, 500 W/O DISCONNECT
	GROUND WITH GROUND SWITCH, 500 W/O DISCONNECT OF SW
	DISCONNECT SWITCH WITH GROUND SWITCH
	DISCONNECT SWITCH WITH GROUND SWITCH, 500 W/O DISCONNECT
	GROUND
	ALTERNATING CLASS CURRENT TRANSFORMER
	REACTOR
	BAY NOT USED

Figure 4-2a

**RTS Solar**  
 3000 WASHINGTON AVENUE, SUITE 100  
 PHOENIX, AZ 85018  
 PHONE: (602) 998-4400  
 WWW.RTSSOLAR.COM

**WHITE WING CENTRE PROJECT**  
 YUMA COUNTY  
 ARIZONA, USA

PROJECT: WHITE WING SOLAR PROJECT (200 MW NET)  
 230 KV SOLAR SITE SUBSTATION  
 ULTIMATE ONE-LINE DIAGRAM

DATE: 11/14/2019  
 DRAWN BY: WWR  
 CHECKED BY: SS800  
 PROJECT NO: WWS-XXXX

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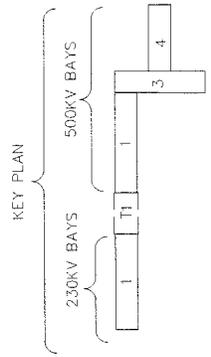
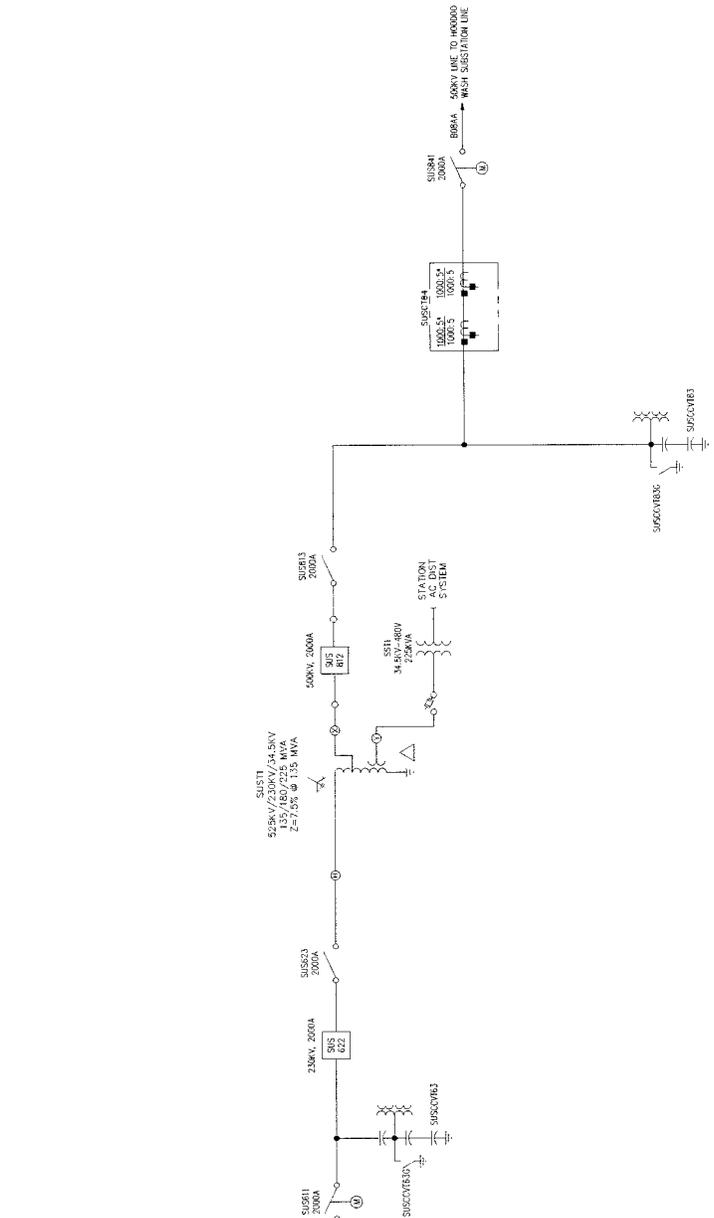
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**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

**NOTES:**  
 1. OPERATIONAL SAFETY, ENVIRONMENTAL CONCERNS AND REGULATIONS MAY VARY DEPENDING ON SPECIFIC SITE REQUIREMENTS. THIS DRAWING IS FOR INFORMATIONAL PURPOSES ONLY. CONSULT THE EPC CONTRACTOR AND APPROVED BY FIRST SOLAR.  
 2. STATION SERVICE ARRANGEMENT MAY VARY DEPENDING ON SITE AND UTILITY REQUIREMENTS.

DEVICE	DESCRIPTION
	CAPACITOR COUPLED VOLTAGE TRANSFORMER WITH GROUND SWITCH
	CIRCUIT BREAKER
	CURRENT TRANSFORMER
	DELTA
	WYE WITH GROUND
	DISCONNECT SWITCH SW # 1 W/ D SHOWN = OMS OF SW SW # 2 W/ D SHOWN = OMS OF SW
	GROUND SWITCH
	GROUND
	GROUND SWITCH
	TRANSFORMER

Figure 4-2b



REV	DATE	REVISION DESCRIPTION	BY	CHK	APP
C	6-16-2016	UPDATE PER COMMENT	HEA		
B	6-9-2016	UPDATE PER COMMENT	HEA		
A	6-1-2016	ISSUE FOR REVIEW	HEA		

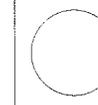


WHITE WING SOLAR PROJECT  
 YUMA COUNTY  
 ARIZONA, USA

PROJECT TITLE  
 STEP UP SUBSTATION  
 230KV/500KV  
 ULTIMATE LINE DIAGRAM

PROJECT NO.  
 SHEET NO.  
 SHEET TOTAL

PROJECT CODE  
 SHEET NO.  
 SHEET TOTAL



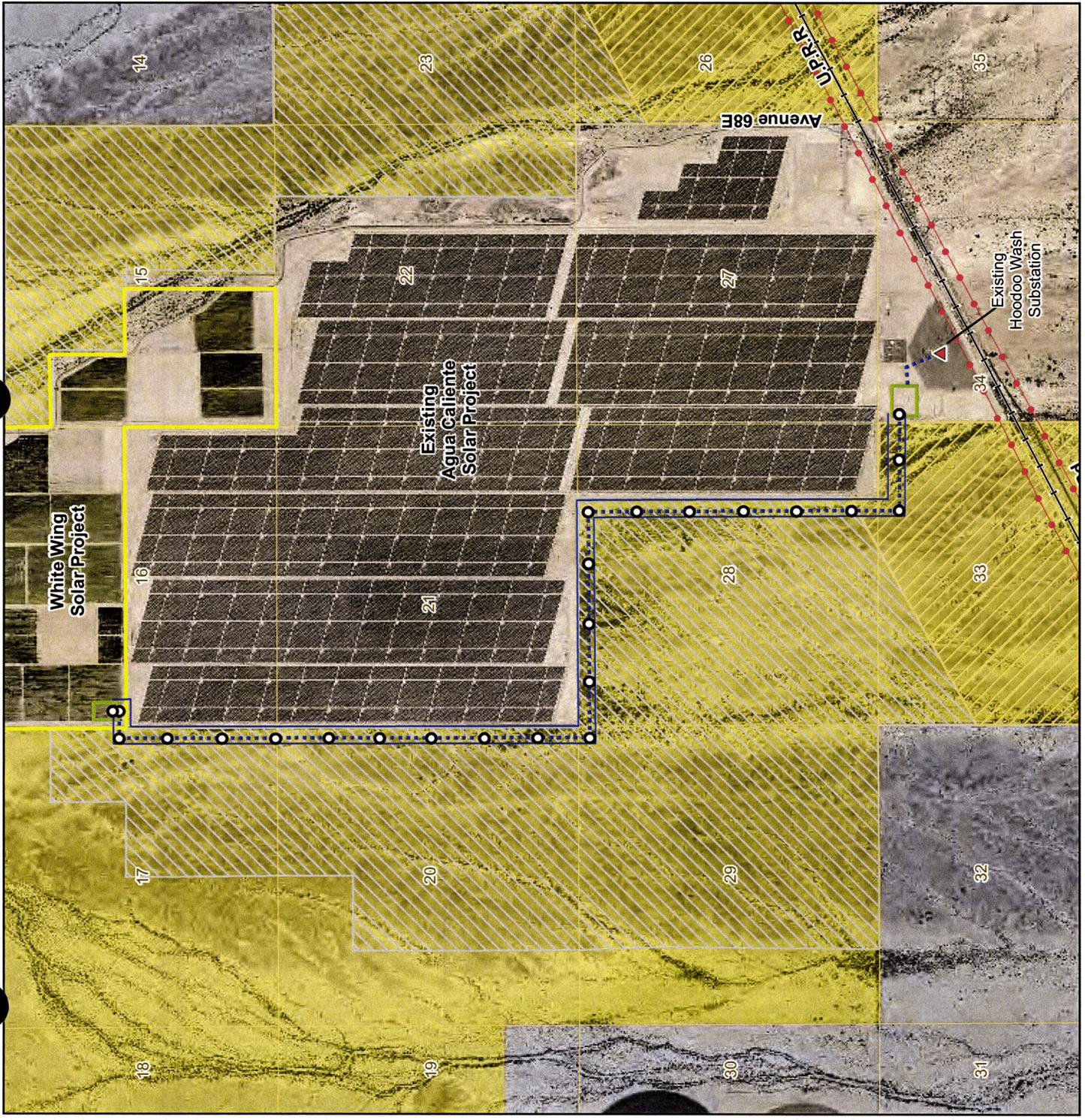
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R12W

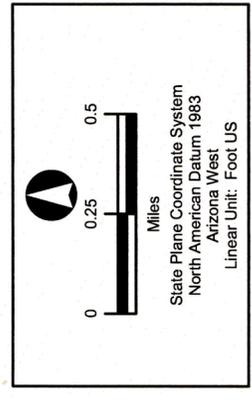
T5S



### Legend

- ▲ Existing Substation
- Structure Location
- ⋯ Proposed Gen-Tie Line Route
- Existing 500 kV Transmission Line
- Railroad
- ▭ Proposed White Wing Solar Project Location
- ▭ Proposed Gen-Tie Line ROW
- ▭ Proposed Substation
- ▨ Agua Caliente SEZ
- ▨ BLM Designated Utility Corridor
- ▭ Township / Range Boundary
- ▭ Section Boundary
- ▭ Jurisdictional Land Ownership
- ▭ Bureau of Land Management Land
- ▭ State Land

Figure 4-4



<b>WHITE WING GEN-TIE PROJECT</b>	
<b>Proposed Gen-Tie Route</b>	
Map Extent: Yuma County, Arizona	
Date: 06.27.16	Author: sjw



Exhibit

A

# EXHIBIT A

## PROJECT LOCATION AND LAND USE

---

As stated in the Arizona Administrative Code, Title 14, Chapter 3, Article 2:

*Where commercially available, a topographic map, 1:250,000 scale, showing any proposed transmission line route of more than 50 miles in length and the adjacent area. For routes of less than 50 miles in length, use a scale of 1:62,500. If application is made for alternative transmission line routes, all routes may be shown on the same map, if practicable, designated by applicant's order of preference.*

*Where commercially available, a topographic map, 1:62,500 scale, of each proposed transmission line route of more than 50 miles in length showing that portion of the route within two miles of any subdivided area. The general land use plan within the area shall be shown on a 1:62,500 map required for Exhibit A-3, and for the map required by this Exhibit A-4, which shall also show the areas of jurisdiction affected and any boundaries between such areas of jurisdiction. If the general land use plan is uniform throughout the area depicted, it may be described in the legend in lieu of an overlay.*

**Figure A-1** depicts the White Wing Gen-tie Project and jurisdictions within a 20-mile area on a topographic map (1:250,000 scale).

**Figure A-2** depicts the White Wing Gen-tie Project and jurisdiction within 2 miles on a topographic map (1:62,500 scale).

**Figure A-3** depicts existing Yuma County and BLM designated land use within a 2-mile radius of the White Wing Gen-tie Project on aerial photograph (1:62,500 scale).

**Figure A-3a** depicts the existing industrial and utility land uses in the Project area.

**Figure A-4** depicts current zoning within two miles of the White Wing Gen-tie Project on an aerial photograph (1:62,500 scale).

### ***PROJECT LOCATION***

The White Wing Gen-tie Project ("Project") is located in the eastern portion of unincorporated Yuma County approximately 10 miles north and 3 miles east of Dateland, Arizona.

The Project initiates at the Solar Site Substation and terminates at the existing Hoodoo Wash Substation located approximately 3.5 miles south. The Solar Site Substation is located on the site of the proposed White Wing Solar Facility. The Step-up Substation and Hoodoo Wash Substation are both located north of Palomas / Hyder Road.

### ***JURISDICTIONS AND LAND OWNERSHIP***

As depicted on **Figure A-2**, land ownership for the Gen-tie Project is predominantly BLM with both endpoints located on private lands. The surrounding area includes BLM, State, and private lands.

The jurisdiction regulating land use on the lands covered by the White Wing Gen-tie Project is with the BLM and Yuma County. The Project endpoints / substations are located on private lands under the jurisdiction of Yuma County and most of the Gen-tie line is on federal lands managed by the BLM.

The BLM-administered lands crossed by the proposed Project have been designated for solar and utility uses as described further below.

The private lands where the project endpoints are located are subject to Special Use Permits (SUPs) issued by Yuma County for solar projects and associated utility infrastructure. An SUP was approved in March 2016 by Yuma County for the White Wing Solar Project that included the lands for the Solar Site Substation (the northern terminus of the Project) and the Step-up Substation. An SUP was issued by Yuma County in 2009 for the Agua Caliente Solar Project that included the Hoodoo Wash Substation (the southern terminus of the Project).

### ***EXISTING CONDITIONS***

The existing land use in the area is dominated by industrial, agricultural, and open land uses. The BLM-administered land crossed by the Gen-tie, while designated for solar and utility uses, is currently managed by the BLM for multiple uses.

The private lands where the Solar Site Substation will be located (the northern terminus of the Project) are currently in agriculture. The private lands south of the White Wing Solar Project are occupied by undeveloped areas of the Agua Caliente Solar Project and the Hoodoo Wash Substation (the southern terminus of the Project).

Also, two existing 500kV lines occur immediately south of the Project area along Palomas / Hyder Road and an abandoned segment of the Union Pacific Railroad. The existing Hassayampa to North Gila 500 kV transmission line corridor parallels the railroad and road, and interconnects to the Hoodoo Wash Substation. The newly-built Hassayampa – North Gila #2 500kV Line (HANG2) also follows this same corridor but

does not connect to Hoodoo Wash Substation. There is also some vacant historically agricultural land nearby. **Figure A-3a** shows the currently existing industrial and utility land uses in the Project area.

### ***Land Use Plans***

The proposed White Wing Gen-tie Project is located on BLM-administered land within the Yuma Field Office. The two endpoints of the Project are located on private lands under the jurisdiction of Yuma County.

### **BLM Management Plans**

The BLM-managed lands are subject to the management direction within BLM's 2010 *Yuma Field Office Record of Decision and Approved Resource Management Plan* (Yuma RMP). In 2013, the northern portion of the BLM-administered lands crossed by the Project was established as the Agua Caliente Solar Energy Zone (SEZ) through the Record of Decision (ROD) for the Arizona Restoration Design Energy Project (RDEP). The RDEP was a BLM Arizona initiative to identify lands across the state that may be suitable for the development of renewable energy. The SEZs are defined by the BLM as areas within which the BLM will prioritize and facilitate utility-scale production of solar energy and associated transmission infrastructure development. The Agua Caliente SEZ was considered suitable as a potential site for utility-scale solar development. The Yuma RMP was amended by this action to include the Agua Caliente SEZ.

The southern portions of the BLM-administered lands crossed by the Proposed Action are outside the SEZ but within a utility corridor designated in the Yuma RMP. Designated corridors are the preferred locations for major linear utility ROWs. This specific designated utility corridor is referred to as the San Diego Gas and Electric Interconnection corridor.

The Proposed Action conforms to the objectives and requirements described in both the Yuma RMP and the Arizona RDEP.

### **Yuma County Plans**

As mentioned above, Yuma County is responsible for regulating private land use on and around the Project Site. The Yuma County Comprehensive Plan 2020 was adopted in 2012 and updated in 2015. Yuma County annually updates the plan as necessary through the major plan amendment process.

Land use planning information for the area was gathered from Yuma County. This area is included within the Dateland/East County Planning Area. The Dateland/East County Planning Area is the largest of the four planning areas in Yuma County and consists primarily of agricultural lands and Sonoran Desert. The existing communities in the

planning area are characterized as small, remote and rural. Historically, Dateland and the entire East County area has had an economic base of farming, agricultural production, and associated railroad activities. The planning area covers 554,156 acres or approximately 861 square miles, with less than 1% of the land area developed for residential uses. The majority of land within this planning area is under BLM jurisdiction and the private land is predominately in agricultural production or open desert.

Regarding the Dateland / East County Planning Area in particular, one of the policies and priorities included in the County Plan is to “[p]romote the construction of solar or wind power plants.” Another states that “[e]conomic development will be a key consideration when considering any future change in land use designations.” The proposed Project would help meet these goals.

The 2010 U.S. Census reported a population of 815 in this planning area. Between 2000 and 2010, the population of the Dateland/East County Planning Area declined by 322 individuals.

Currently, as shown on **Figure A-4**, the land use designation for the Project Site and surrounding areas is Agriculture/Rural Preservation (Yuma County 2020 Comprehensive Plan Land Use Map, 2015). The purpose of this land use element is resource preservation with emphasis on protecting and preserving agricultural-related resources and continued agricultural use.

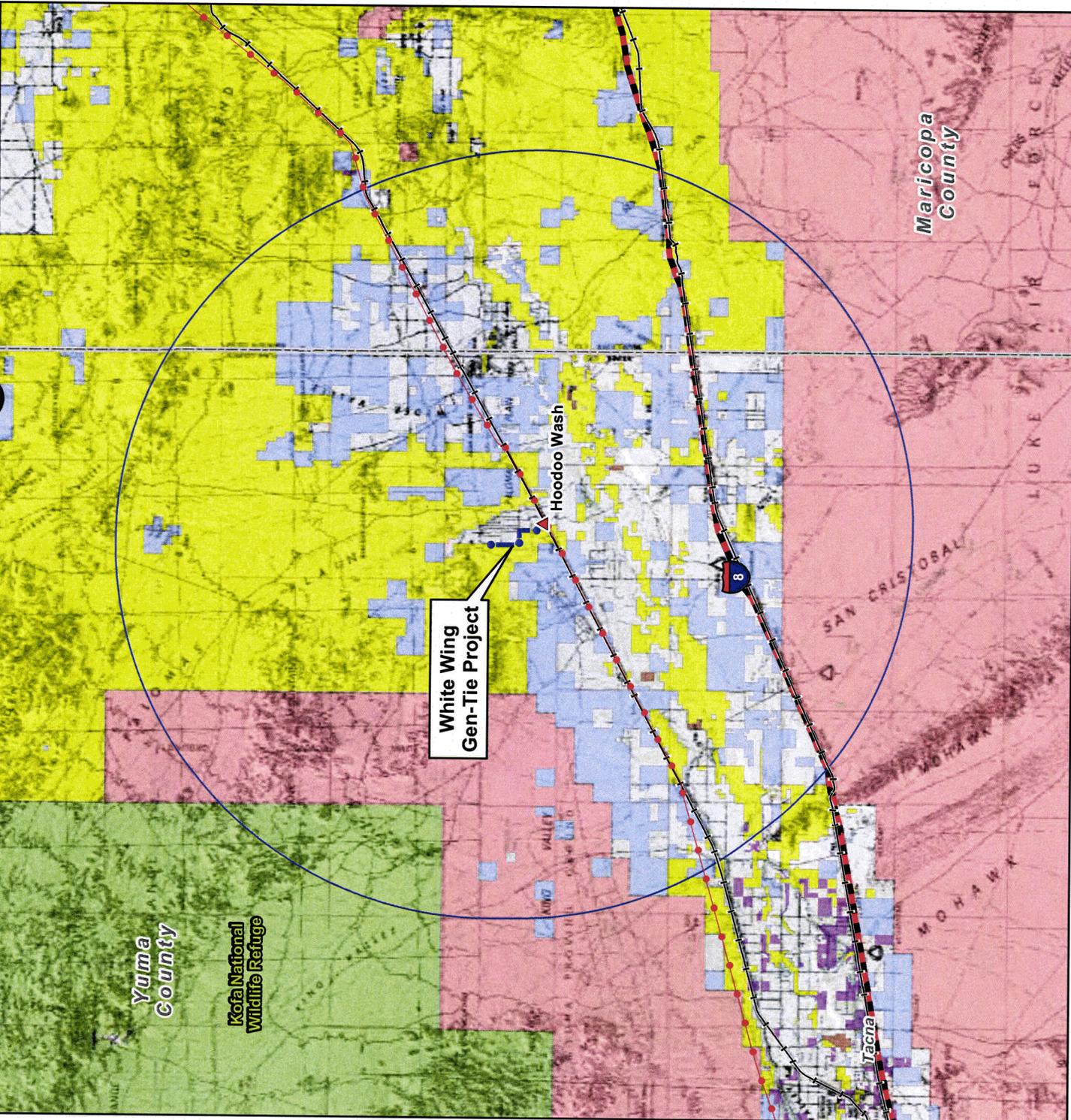
The Project area and surrounding area is zoned Rural Area (RA)-40 by Yuma County as shown on **Figure A-4**. The RA-40 zoning allows as special uses public or private utility installations for electric generating or transmission facilities such as those proposed for this Project. As indicated above, Yuma County has issued SUPs for both the proposed White Wing Solar Project and the existing Agua Caliente Solar Project – the private lands where the Project endpoint substations would be located.

### ***POTENTIAL EFFECTS***

The Project would be consistent with the existing land uses, the land use designations, and zoning for the Project lands and surrounding areas. The proposed Project would be similar to and compatible with the existing and proposed solar projects, transmission lines, substations, and other utilities in the immediate area.

**REFERENCES**

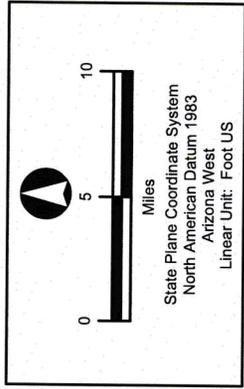
- Bureau of Land Management (BLM). 2010. Yuma Field Office Record of Decision and Approved Resource Management Plan (Yuma RMP). [Online] Located at: [http://www.blm.gov/az/st/en/info/nepa/environmental\\_library/arizona\\_resource\\_management/YFO/YFO-ROD.html](http://www.blm.gov/az/st/en/info/nepa/environmental_library/arizona_resource_management/YFO/YFO-ROD.html). Accessed March, 2016.
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- County of, Yuma. 2020 Comprehensive Plan Adopted in 2012, and updated in 2015. [Online] Located at: <http://www.yumacountyaz.gov/departments-and-services/development-services/laws-guidelines/2020-comprehensive-plan> Accessed May, 2016.
- County of, Yuma. Yuma County Zoning Ordinance. Adopted in 2006, and updated through February 2016. [Online] Located at: <http://www.yumacountyaz.gov/home/showdocument?id=26467> Accessed May, 2016.
- County of, Yuma. Yuma, AZ Profile. Arizona Commerce Authority. 2016. [Online] Located at: <http://www.azcommerce.com/a/profiles/ViewProfile/16/Yuma+County/> Accessed May, 2016.



**Legend**

- Existing Substation
- Proposed Gen-tie
- Existing 500 kV Transmission Line
- Interstate
- State Highway
- Railroad
- 20 Mile Buffer
- Municipal Boundary
- County Boundary
- Jurisdictional Land Ownership
- Bureau of Land Management Land
- State Land
- Military
- USFWS
- State Wildlife Area
- Bureau of Reclamation
- Private Land (No Shading)

155



**WHITE WING GEN-TIE PROJECT**

**Figure A-1 – Project Location**

Map Extent: Yuma County, Arizona

Date: 07.11.16

Author: inc

# Legend

- Existing Substation
- Proposed Gen-tie
- Existing 500 kV Transmission Line
- Railroad
- Proposed Gen-Tie ROW - 350 ft
- Project Study Area (2-mile Buffer)
- Approved White Wing Solar Project
- Township / Range Boundary
- Section Boundary
- County Boundary
- Jurisdictional Land Ownership
- Bureau of Land Management Land
- State Land
- Private Land (No Shading)

Miles  
0 0.25 0.5 0.75 1

State Plane Coordinate System  
North American Datum 1983  
Arizona West  
Linear Unit: Foot US

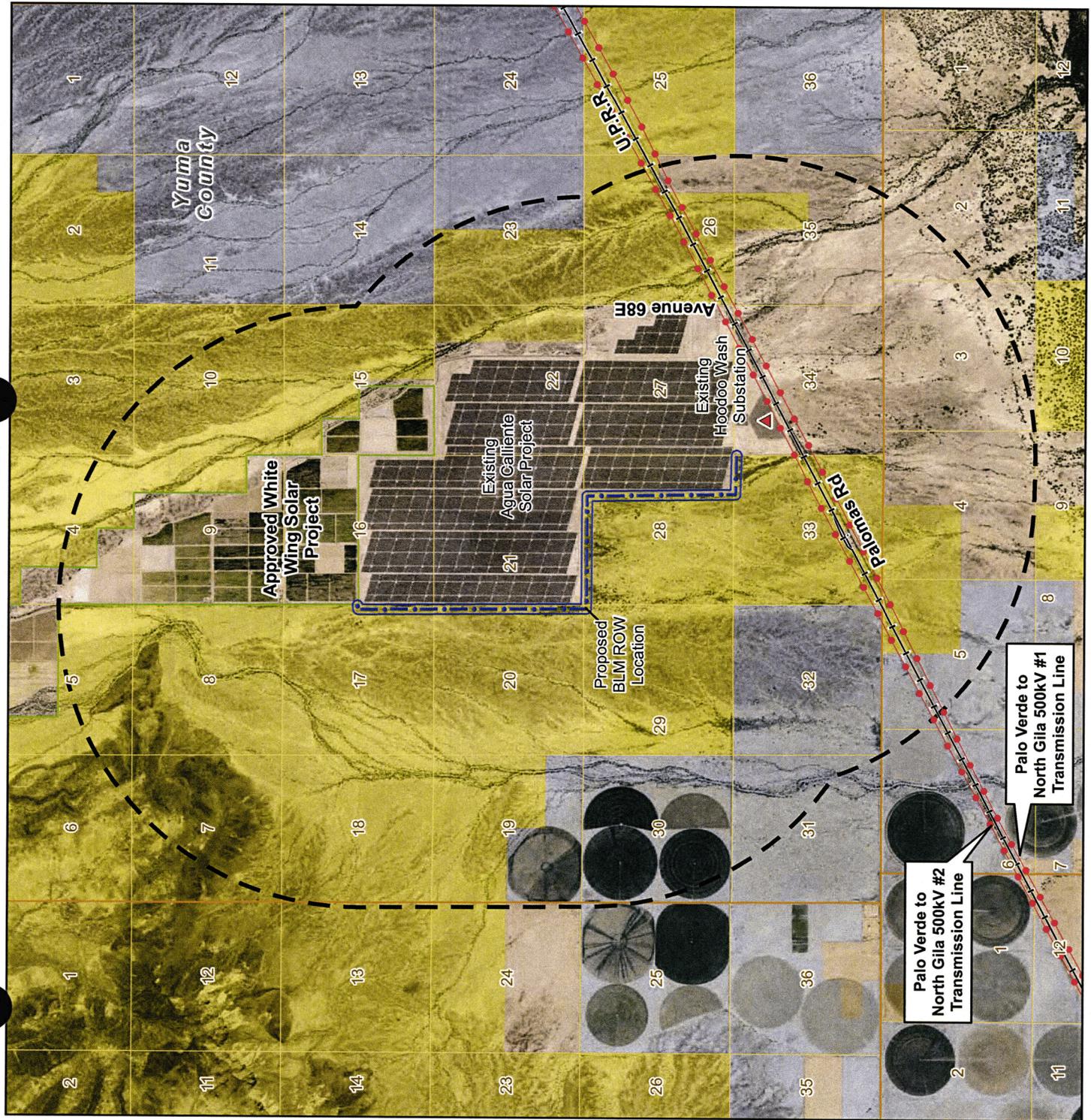
Yuma County  
Phoenix  
ARIZONA  
Map Extent

**WHITE WING GEN-TIE PROJECT**

**Figure A-2 - Land Jurisdiction**

Map Extent: Yuma County, Arizona

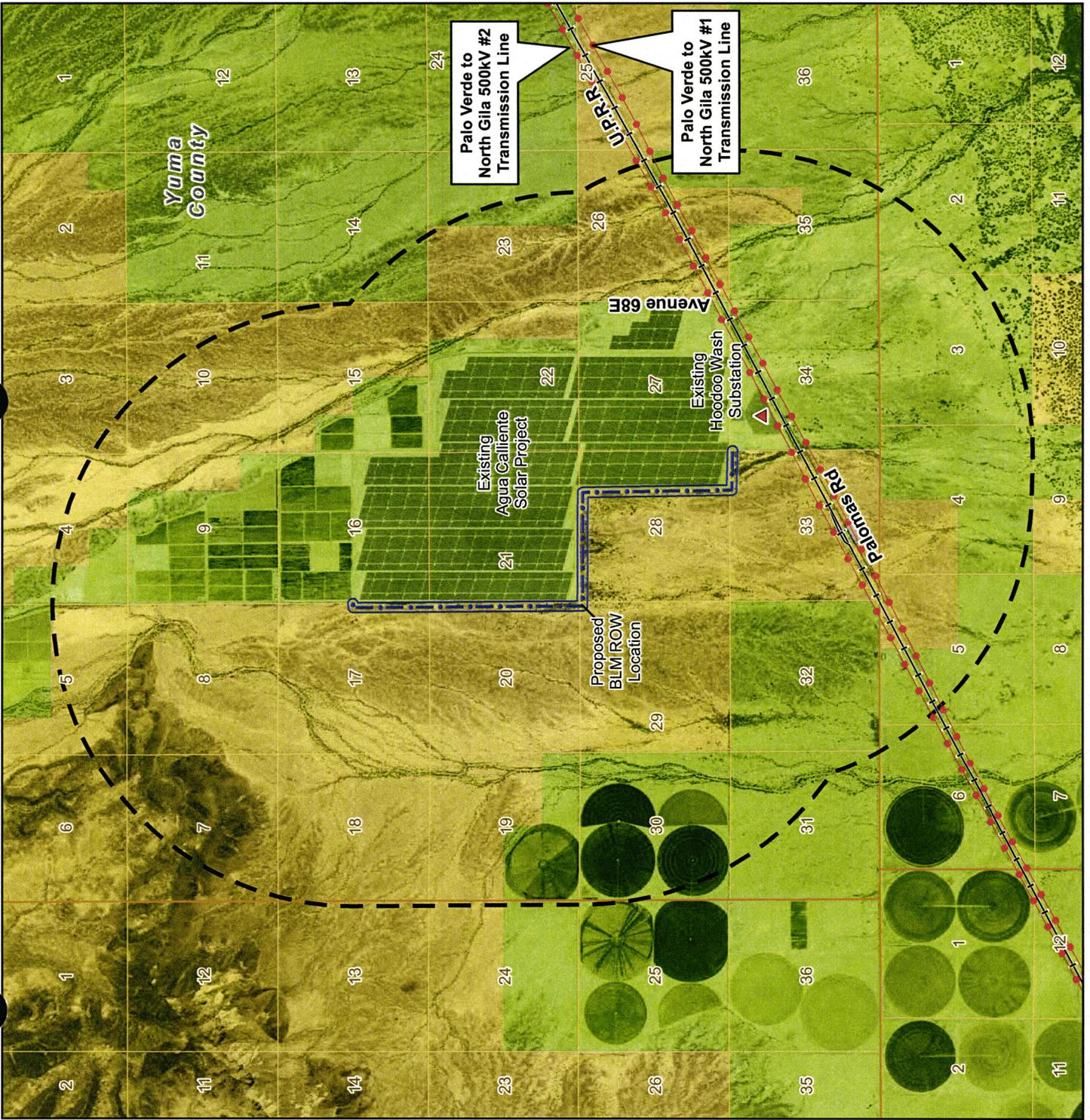
Date: 07.11.16  
Author: mc



R13W

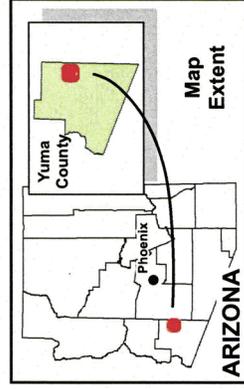
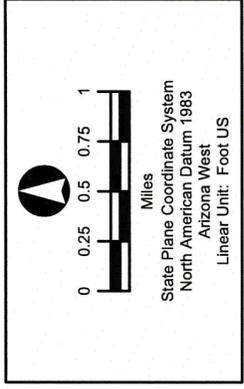
T5S

T6S



**Legend**

- Existing Substation
- Proposed Gen-tie
- Existing 500 kV Transmission Line
- Railroad
- Proposed Gen-Tie ROW - 350 ft
- Project Study Area (2-mile Buffer)
- Township / Range Boundary
- Section Boundary
- County Boundary
- Land Use
- A-RP, Agricultural/Rural Preservation
- Jurisdictional Land Ownership
- Bureau of Land Management Land



**WHITE WING GEN-TIE PROJECT**

Figure A-3 – Existing Land Use

Map Extent: Yuma County, Arizona

Date: 07.11.16 Author: nc

T5S

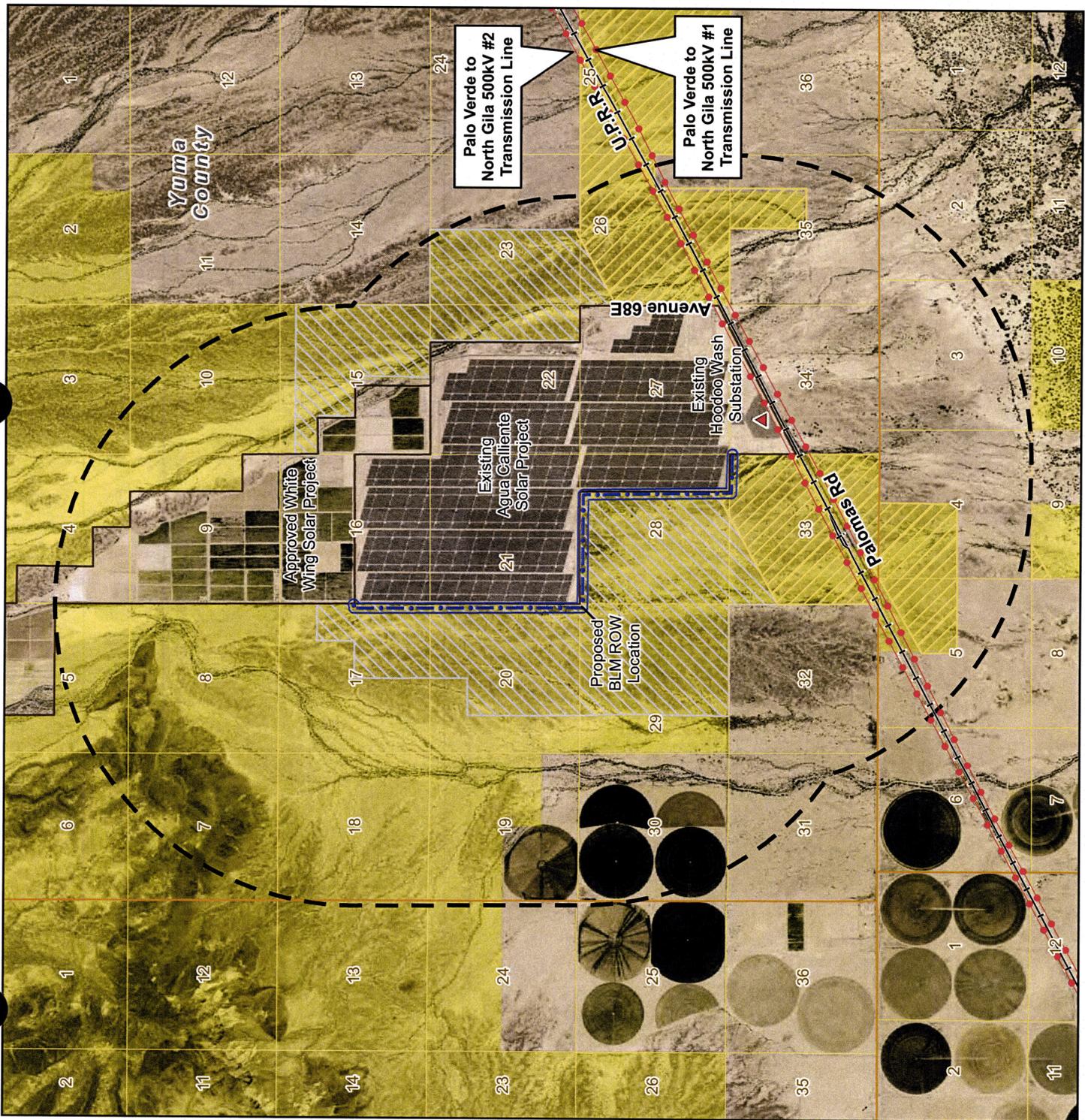
T6S

R13W

R13W

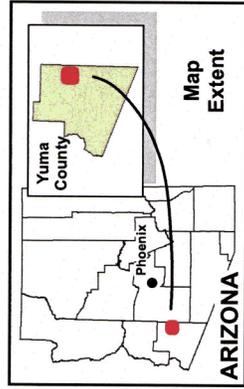
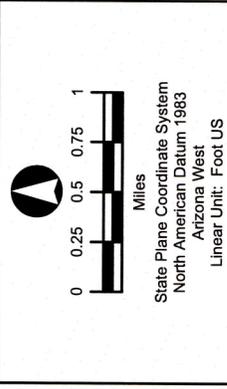
T5S

T6S



### Legend

- ▲ Existing Substation
- Proposed Gen-tie
- Existing 500 kV Transmission Line
- +— Railroad
- Proposed Gen-Tie ROW - 350 ft Project Study Area (2-mile Buffer)
- SUP Boundary
- Agua Caliente SEZ
- BLM Designated Utility Corridor
- Township / Range Boundary
- Section Boundary
- County Boundary
- Jurisdictional Land Ownership Bureau of Land Management Land

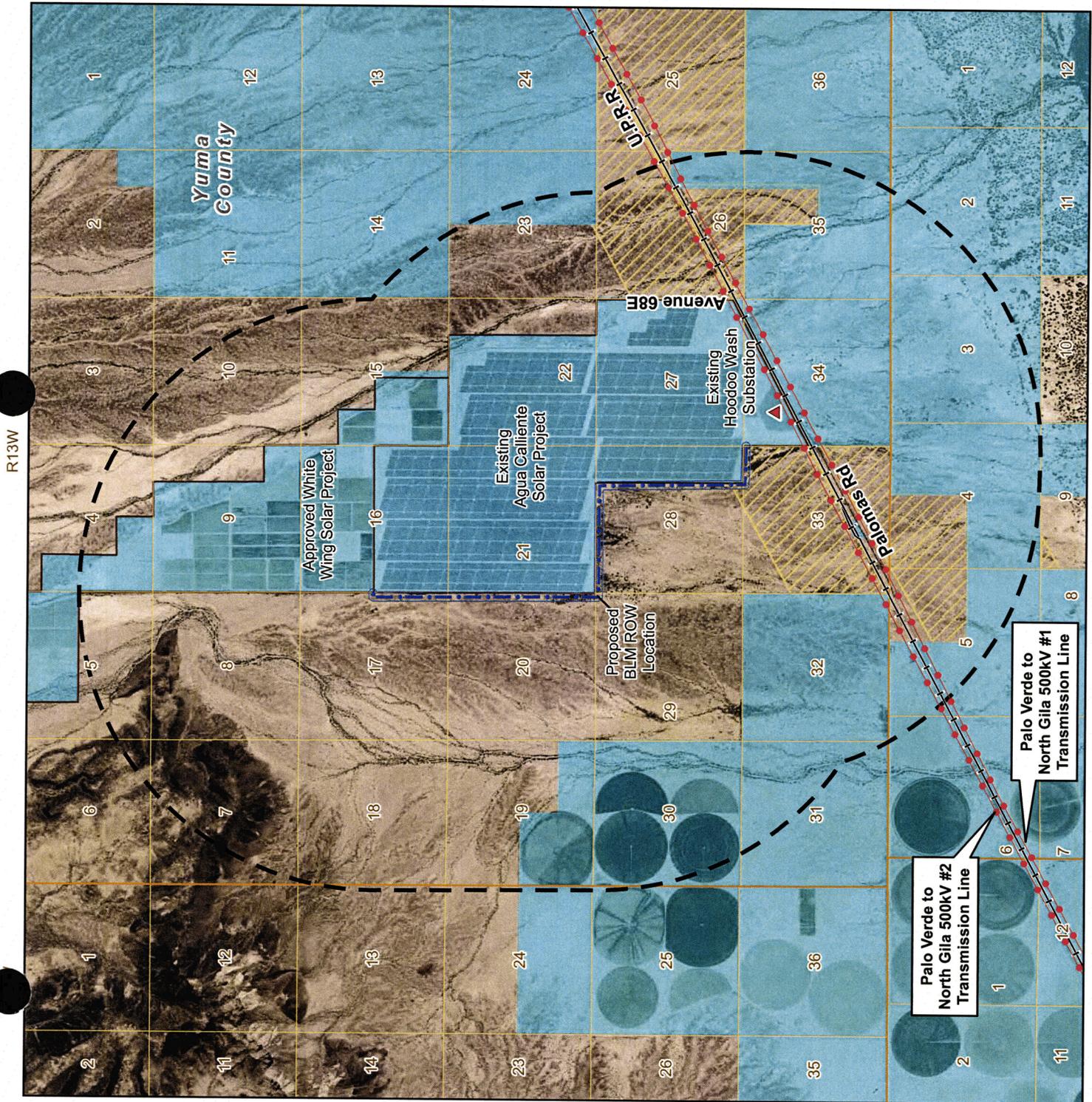


### WHITE WING GEN-TIE PROJECT

Figure A-3a – Existing and Planned Energy Uses in the Area

Map Extent: Yuma County, Arizona

Date: 07.11.16 Author: mc



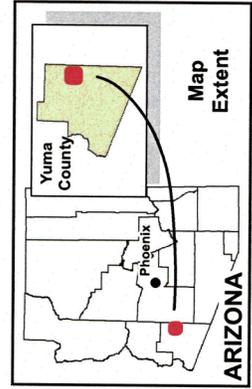
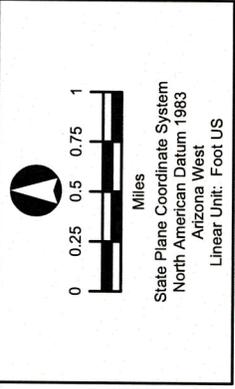
R13W

T5S

T6S

**Legend**

- ▲ Existing Substation
- Proposed Gen-tie
- Existing 500 kV Transmission Line
- Railroad
- Proposed Gen-Tie ROW - 300 ft
- Project Study Area (2-mile Buffer)
- SUP Boundary
- BLM Designated Utility Corridor
- Township / Range Boundary
- Section Boundary
- County Boundary
- Zoning
- RA-40, Rural Area Zoning District (40-acre minimum)



**WHITE WING GEN-TIE PROJECT**

Figure A-4 – Zoning and BLM Designated Utility Corridors

Map Extent: Yuma County, Arizona

Date: 07.11.16

Author: mc

Exhibit

B

# EXHIBIT B

## ENVIRONMENTAL STUDIES

---

As stated in the Arizona Administrative Code, Title 14, Chapter 3, Article 2:

*“Attach any environmental studies which applicant has made or obtained in connection with the proposed site(s) or route(s). If an environmental report has been prepared for any federal agency or if a federal agency has prepared an environmental statement pursuant to Section 102 of the National Environmental Policy Act, a copy shall be included as part of this exhibit.”*

The results of the environmental studies and analyses conducted by the Applicant are discussed in subsequent exhibits of this Application. **Exhibit A** describes existing and proposed land use and consistency with land use plans; **Exhibit C** addresses potential impacts to sensitive biological resources in the Project area; **Exhibit D** discusses potential impacts to other biological resources in the area; **Exhibit E** summarizes the potential effects on the area's scenic quality and cultural resources; **Exhibit F** summarizes the potential effects on recreation resources; **Exhibit H** describes how the Project could affect local plans; and **Exhibit I** discusses the noise and communication signal impacts that would be expected.

Most of the Project (with the exception of the endpoint substations) is located on federal lands managed by the BLM. The Applicant has applied for a right-of-way (ROW) from BLM for the Project and an Environmental Assessment (EA) is being developed to satisfy the requirements of the National Environmental Policy Act (NEPA). A copy of the EA will be provided when the Draft is available for public review.

The federal lands crossed by the Project have been evaluated in previous NEPA analyses associated with the decisions to designate these lands as a Solar Energy Zone (SEZ) and utility corridor, respectively.

Exhibit

C

# EXHIBIT C

## AREAS OF BIOLOGICAL WEALTH

---

As stated in the Arizona Administrative Code, Title 14, Chapter 3, Article 2:

*Describe any areas in the vicinity of the proposed site or route which are unique because of biological wealth or because they are habitats for rare and endangered species. Describe the biological wealth or species involved and state effects, if any, the proposed facilities will have thereon.*

### **METHODS**

Special status plant and wildlife species are subject to regulations under the authority of federal and state agencies. Special status species include those species that are listed by the U.S. Fish and Wildlife Service (USFWS) as federal endangered, threatened, proposed, or candidate species under the Endangered Species Act of 1973 (ESA), Section 4, as amended; listed by the Arizona Game and Fish Department (AGFD); or are protected under the Arizona Native Plant Law administered by the Arizona Department of Agriculture (AZDA). Descriptions of special status species are listed below:

- Endangered species (federal) are those species in danger of extinction throughout all or a significant portion of their range.
- Threatened species (federal) are those species likely to become endangered in the foreseeable future.
- Proposed species (federal) are those species recommended for listing under Section 4 of the ESA.
- Candidate species (federal) are those species for which the USFWS has sufficient information on their biological status and threats to propose them as endangered or threatened under the ESA, but for which development of a proposed listing regulation is precluded by other higher priority listing activities. Candidate species are not protected under the ESA.
- USFWS Species of Concern is an informal term that refers to those species that the USFWS believes may be in need of concentrated conservation actions. Conservation actions, such as monitoring, vary depending on the health of the populations and degree and types of threats. USFWS Species of Concern receive no legal protection under the ESA and the use of the term does not necessarily mean that the species will eventually be proposed for listing as a threatened or endangered species.
- AGFD Species of Greatest Conservation Need (SGCN) are species determined to be vulnerable in at least one of the following eight criteria: extirpated from Arizona, federal or state status, declining status, disjunct status, demographic status, concentration status, fragmentation status, and distribution status.

- AZDA Highly Safeguarded or Salvage Restricted Native Plants are those plants which are protected under the Arizona Native Plant Law (NPL) and fall into these categories: Highly Safeguarded (no collection allowed); Salvage Restricted (collection allowed only with permit); Export Restricted (transport out of state prohibited); Salvage Assessed (permits required to remove live trees); and Harvest Restricted (permits required to remove plant by-products).

A review for potential occupancy by special status species was performed on the Project site. The list of species considered was derived from the U.S. Fish and Wildlife Service's (USFWS) Information for Planning and Conservation (IPaC) system and familiarity with other similar nearby projects. In addition, data was obtained from AGFD species occurrences in the area (AGFD 2015). This information provided a basis for species that might be present in the vicinity of the Project. **Table C-1** presents the special status species potentially occurring within the region, listed by common name, scientific name, and status.

An AGFD On-line Project Evaluation Program (PEP) search was completed for the Project on June 3, 2016 (AGFD 2016) (**Appendix C-1**). The information provided in the PEP is used to guide preliminary decisions and assessments of proposed land development, management, and conservation projects, while incorporating fish and wildlife resource needs or features.

In addition to the AGFD PEP search, AGFD was consulted as part of the Special Use Permit (SUP) process for the White Wing Solar Facility. A copy of the response letter received from AGFD is included at the end of **Appendix C-1**.

Prior to conducting fieldwork, aspects such as ecology and habitat requirements of each special status species were reviewed. Habitat conditions and wildlife observations on and around the Project Site were noted. Information including habitat requirements, known occurrences, and habitat types was used to evaluate the potential for occurrence of each species and to analyze the potential effects of the Project.

### ***CURRENT CONDITIONS***

Field reconnaissance surveys were conducted in September, 2015, by a qualified field biologist to identify any special status species on or near the Project Site. Habitats were evaluated and characterized within the Project vicinity during this field reconnaissance. The Gen-tie Project area is immediately adjacent to the existing Agua Caliente Solar Project. The two project endpoints are located on currently disturbed lands. The proposed Gen-tie ROW is located on federal lands managed by the BLM. These desert lands are adjacent to the existing solar site and are planned for future solar development by the BLM as part of the Agua Caliente Solar Energy Zone (SEZ).

The Gen-tie ROW contains vegetation typical for the Sonoran Desert, with mesquite-tamarisk and creosote bush the dominant species (**Appendix C-2 – Representative Photographs**). The majority of plant species observed are native, but several non-native species are common.

Vegetation / wildlife habitat on the Project Site is made up of six covertypes as indicated below:

Covertype	Percentage
Mesquite – Tamarisk	7.2
Mesquite Woodland	31.3
Atriplex Scrub	6.8
Xero-Riparian	7.9
Creosotebush – White Bursage	24.4
Disturbed	22.4

These covertypes are described in more detail in **Exhibit D**.

**POTENTIAL EFFECTS**

While the species and habitats described in **Table C-1** have the potential to occur within the Project area, there would be minimal potential impacts to these species by Project construction and operations as described below.

**Special Status Plants**

**Table C-2** contains plant species listed as Salvage Restricted in accordance with Arizona’s Native Plant Law (Arizona Department of Agriculture 2014). A total of 12 species protected under Arizona Native Plant Law as “Salvage Restricted” were analyzed for potential occurrence (Arizona Revised Statutes, Chapter 7). **Table C-2** describes the habitat requirements for those species as well as the potential for their occurrence in or around the Project area. For 6 of the 12 species analyzed, either no suitable habitat was found in or immediately adjacent to the Project area, or the Project area is located below the species’ known elevation range. While suitable habitat is at least present for the remainder of the species, Applicant will not be required to salvage any of the listed species.

**Special Status Wildlife**

**Sprague’s Pipit**

Sprague’s Pipit (*Anthus spragueii*) is a candidate for federal listing under the Endangered Species Act, but is not currently listed. This migratory species breeds in the northern great plains and winters from south-central Arizona across the southern plains, to the coastal plain of the Gulf Coast states. This species is strongly associated with grasslands (both native and non-native) during all portions of its life cycle. Vegetation structure, particularly the height of

herbaceous cover, appears to be the most important factor in selecting habitat, rather than floristic composition. This species does not use croplands or small strips of grassland habitat along the edges of croplands. Encroachment of shrubby vegetation also precludes the use of otherwise suitable areas by this species (USFWS 2010a).

There are no suitable habitats for this species in or immediately adjacent to the Project area. The solar site itself is comprised almost entirely of croplands and associated disturbed areas that are not considered suitable for this species. The native habitats associated with the Gen-tie routes are largely desert shrub or woodlands habitats, which do not represent suitable habitat for the Sprague's Pipit. There is no to very low potential for the Sprague's Pipit to occur on site.

### **Ridgeway's Rail (formerly Yuma Clapper Rail)**

The Ridgeway's Rail (*Rallus longirostris yumanensis*) breeds in fresh- and brackish-water marshes along the Colorado River from Needles, California, to the Colorado River delta and near the Salton Sea (USFWS 2010b). It typically occupies emergent marsh vegetation, such as mature stands of bulrushes and cattails (Nadeau et al. 2011). Tamarisk is also used after breeding and during the winter at some sites. Nests are built between March and late July in clumps of living emergent vegetation over shallow water (USFWS 2010b). Habitat suitability has been strongly associated with moderate or high vegetation density. Some amount of non-inundated ground is required for nesting since chicks can easily drown in moderate or deep water (Anderson and Omhart 1985, Conway et al. 1993).

The irrigation collection basin was the only area inundated or saturated by water. Only negligible emergent vegetation was present as a thin strip along the shore of the basin. This basin does not represent potentially suitable habitat for the Ridgeway's Rail. Furthermore, there are no other areas of potentially suitable habitat in or around the Project area. As such, there is no to very low potential for the Ridgeway's Rail to occur on the Project Site.

### **Yellow-billed Cuckoo**

The federally threatened Yellow-billed Cuckoo (*Coccyzus americanus*) is a riparian obligate. This species is limited to riparian areas, typically cottonwoods (*Populus* sp.) or willows (*Salix* sp.) along streams and rivers. The Yellow-billed Cuckoo occasionally uses very large mesquite bosques (Hughes 2015).

There is no potentially suitable riparian habitat in or around the Project area. The Mesquite Woodland associated with the Gen-tie route represents marginally suitable habitat for this species, but the size of the mesquite stand as well as the distance to more typically suitable habitat, makes the occurrence of this species within the Project area extremely unlikely.

### **Sonoran Pronghorn**

The Sonoran Pronghorn (*Antilocapra americana sonoriensis*) is a federally endangered subspecies of the pronghorn antelope that inhabits a variety of Sonoran Desert habitats. This species relies on detecting and fleeing from predators. As such, this species prefers flat to gently rolling terrain with open sight-lines. Creosotebush habitats, in particular, are frequented by the species, though habitats with greater shade availability are necessary during the summer. The species is nomadic and require large expanses of contiguous habitat to survive. No wild Sonoran Pronghorns have been observed north of Interstate 8 since 1990 (USFWS 2014). There is a “non-essential, experimental” population associated with the Kofa National Wildlife Refuge, northwest of the proposed Project (USFWS 2014).

The native habitats associated with the Project represent potentially suitable habitat for this species. However, the proximity of these habitats to active solar energy and agricultural operations make consistent or regular occupancy of these areas by the species very unlikely. Instead, Sonoran antelope would be expected to preferentially use the large amounts of native habitat located on all sides of the Project area that are less impacted by ongoing human activities.

### **Migratory Birds**

Several species of migratory birds have a high potential to use the Project area. Avian use of the Project area could include wintering, foraging, transit, and/or nesting. Migratory birds and their nests are federally protected under the migratory bird treaty act. The areas within the active agricultural fields themselves do not represent suitable nesting habitat due to the regular disturbance associated with active farming. The irrigation infrastructure and areas around the edges of the fields, as well as the native habitats associated with the Gen-tie route, do offer potentially suitable nesting substrate for several species.

### **Burrowing Owl**

The Burrowing Owl is primarily restricted to the western United States and Mexico. Habitat for the Burrowing Owl includes dry, open, short-grass areas often associated with burrowing mammals (Haug et al. 1993). Agricultural areas may benefit the species and appear to represent preferred habitat in some areas (DeSante et al. 2004). Burrowing Owls are opportunistic feeders, consuming a diet that includes arthropods (typically insects), small mammals, small birds, and occasionally amphibians and reptiles (Haug et al. 1993). Urbanization has greatly reduced the amount of suitable habitat for this species. Other contributions to the decline of this species include the poisoning of squirrels and prairie dogs, and collisions with automobiles.

The open native desert habitats along the Gen-tie route (especially creosotebush – white bursage) as well as the active and fallow agricultural habitats within the Solar Site all represent suitable habitat for this species. Several suitable Burrowing Owl burrows were observed during

the field surveys as were multiple individual Burrowing Owls. Our observations indicate approximately five active "burrow complexes" with up to 11 individuals occupying the site at the time of the survey.

**TABLE C-1 - SPECIAL STATUS SPECIES WITH THE POTENTIAL TO OCCUR WITHIN 3 MILES OF THE PROJECT**

Species		Protection Status <sup>1</sup>		Potential to Occur in Project Study Area (Justification) <sup>3</sup>
Common name	Scientific name	ESA <sup>2</sup>	Arizona SGCN <sup>2</sup>	
<b>Mammals</b>				
Harris' Antelope Squirrel	<i>Ammospermophilus harrisi</i>	--	1B	No (Habitat)
Sonoran Pronghorn	<i>Antilocapra americana sonoriensis</i>	E	1A	No (Habitat - none observed north of I-8 since 1990)
American Beaver	<i>Castor Canadensis</i>	--	1B	No (Habitat)
Pale Townsend's Big-eared Bat	<i>Corynorhinus townsendii pallescens</i>	SC	1B	No (Elevation)
Spotted Bat	<i>Euderma maculatum</i>	SC	1B	Yes (Foraging Only)
Greater Western Bonneted Bat	<i>Eumops perotis californicus</i>	SC	1B	No (Habitat)
Western Yellow Bat	<i>Lasiorus xanthinus</i>	--	1B	No (Habitat)
California Leaf-nosed Bat	<i>Macrotus californicus</i>	SC	1B	Yes (Foraging Only)
Cave Myotis	<i>Myotis velifer</i>	SC	1B	Yes (Foraging Only)
Yuma Myotis	<i>Myotis yumanensis</i>	SC	1B	Yes (Foraging Only)
Pocketed Free-tailed Bat	<i>Nyctinomops femorosaccus</i>	--	1B	Yes (Foraging Only)
Desert Bighorn Sheep	<i>Ovis Canadensis nelson</i>	--	1B	No (Habitat)
Arizona Pocket Mouse	<i>Perognathus amplius</i>	--	1B	No (Elevation)
Little Pocket Mouse	<i>Perognathus longimembris</i>	--	1B	Yes (None Observed)
Brazilian Free-tailed Bat	<i>Tadarida brasiliensis</i>	--	1B	Yes (Foraging Only)
Harquahala Southern Pocket Gopher	<i>Thomomys bottae subsimilis</i>	SC	1B	Yes (None Observed)
Kit Fox	<i>Vulpes macrotis</i>	--	1B	Yes (None Observed)
<b>Birds</b>				
Wood Duck	<i>Aix sponsa</i>	--	1B	No (Habitat)
Sprague's Pipit	<i>Anthus spagueii</i>	C	1A	No (Habitat)
Golden Eagle	<i>Aquila chrysaetos</i>	--	1B	Yes (Foraging Only)
Western Burrowing Owl	<i>Athene cucularia hypugaea</i>	SC	1B	Yes (None Observed)
American Bittern	<i>Botaurus lentiginosus</i>	--	1B	No (Habitat)
Ferruginous Hawk	<i>Buteo regalis</i>	SC	1B	Yes (Foraging Only)
Mountain Plover	<i>Charadrius montanus</i>	SC	1B	Yes (Winter Only)

**TABLE C-1 - SPECIAL STATUS SPECIES WITH THE POTENTIAL TO OCCUR WITHIN 3 MILES OF THE PROJECT**

Species		Protection Status <sup>1</sup>		Potential to Occur in Project Study Area (Justification) <sup>3</sup>
Common name	Scientific name	ESA <sup>2</sup>	Arizona SGCN <sup>2</sup>	
Yellow-billed Cuckoo	<i>Coccyzus americanus occidentalis</i>	T	1A	No (Habitat)
Gilded Flicker	<i>Colaptes chrysoides</i>	--	1B	Yes (None Observed)
Gila Woodpecker	<i>Melanerpes uropygialis</i>	--	1B	Yes (None Observed)
Lincoln's Sparrow	<i>Melospiza lincolni</i>	--	1B	Yes (None Observed)
Abert's Towhee	<i>Melospiza aberti</i>	--	1B	Yes (Observed)
Bald Eagle	<i>Haliaeetus leucocephalus</i>	SC	1A	No (Habitat)
Savannah Sparrow	<i>Passerculus sandwichensis</i>	--	1B	Yes (Observed)
Le Conte's Thrasher	<i>Toxostoma lecontei</i>	--	1B	Yes (None Observed)
Pacific Wren	<i>Troglodytes pacificus</i>	--	1B	No (Habitat)
Arizona Bell's Vireo	<i>Vireo bellii arizonae</i>	--	1B	No (Habitat)
<b>Amphibians</b>				
Sonoran Desert Toad	<i>Incilius alvarius</i>	--	1B	Yes (None Observed)
Lowland Leopard Frog	<i>Lithobates yavapaiensis</i>	SC	1A	No (Habitat)
<b>Reptiles</b>				
Sonoran Desert Tortoise	<i>Gopherus agassizii (Sonoran population)</i>	C	1A	No (Habitat)
Banded Gila Monster	<i>Heloderma suspectum cinctum</i>	--	1A	Yes (None Observed)

<sup>1</sup> E=Endangered, T=Threatened, C=Candidate, EP, NE=Experimental Population, Non-Essential, SC=Species of Concern, DM=Delisted taxon, recovered, and being monitored for the first five years, SGCN=Species of Greatest Conservation Need – 1A species scored 1 for Vulnerability in at least one of the 8 categories and matches at least one of the following:

Federally listed as endangered or threatened under the ESA, Candidate under the ESA, covered by a Conservation Agreement ("CA") with assurances, recently moved from ESA and requires post-delisting monitoring, closed season species (no take permitted) as identified by AGF Commission Orders 40, 41, 42, 43, 1B species scored 1 for Vulnerability in at least one of the 8 categories, but match none of the above criteria.

<sup>2</sup> AGFD 2016

<sup>3</sup> Elevation means the species does not have the potential to occur because the Project Site is not within its elevation requirements. Habitat means the Project Site is within the species elevation requirements but there is no suitable or potential habitat for the species. References are provided in the References Section. Other Sources: Corman et al. 2005, eflora 2013

**TABLE C-2 - -SALVAGE RESTRICTED PLANTS POTENTIALLY OCCURRING IN OR AROUND THE PROJECT AREA**

Scientific Name	Common Name	Habitat Preferences/ Requirements	Flowering Period	Potential to Occur
<i>Allium parishii</i>	Parish Onion	Open rock and sandy slopes associated with desert mountain ranges. Primarily a Mojave desert species.	April-May	Suitable habitat occurs in the Palomas Mountains immediately northwest of the Project area. Project area is below species' known elevation range.
<i>Carnegiea gigantea</i>	Saguaro	Rocky or gravelly soils associated with slopes, canyons and washes.	May-June	Suitable habitat is present in the Project area associated with the Gen-tie route. Species was well represented within and around the Project area.
<i>Cylindropuntia echinocarpa</i>	Silver Cholla	Inhabits a variety of habitats including canyons, Mojavean and Sonoran desert shrublands on soils ranging from sandy to gravelly.	March-June	Suitable habitat is present in the Project area associated with native habitats.
<i>Cylindropuntia ramosissima</i>	Pencil Cholla	Typically found in washes and bajadas with soils ranging from sandy-loam to desert pavement and volcanic substrates.	April-August	Suitable habitat is present in the Project area associated with native habitats.
<i>Echinocactus polycephalus</i> var. <i>polycephalus</i>	Clustered Barrel Cactus	Rocky to gravelly slopes including rocky flats, bajadas and rock ledges.	July-August	Suitable habitat is present in the Project area associated with native habitats.
<i>Ferocactus cylindraceus</i> var. <i>cylindraceus</i>	California Barrel Cactus	Rocky or gravelly soils including slopes, canyons, alluvial fans, and wash margins. Usually on igneous or limestone substrates (AZGFD 2005d).	April-June (occasionally later in response to rain)	Suitable habitat is present in the Project area associated with native habitats.

**TABLE C-2 - -SALVAGE RESTRICTED PLANTS POTENTIALLY OCCURRING IN OR AROUND THE PROJECT AREA**

Scientific Name	Common Name	Habitat Preferences/ Requirements	Flowering Period	Potential to Occur
<i>Fouquieria splendens</i>	Ocotillo	Shallow, rocky soils, often on south facing slopes.	March-June (occasionally later in response to rain)	Suitable habitat is present in the Project area associated with native habitats.
<i>Lophocereus schottii</i>	Senita	Fine sandy soils of desert valleys and plains. In the U.S., only known from a few small populations in the extreme southern portion of Arizona, especially Organ Pipe National Monument.	April-August	No suitable habitat is present within the Project area. Project area is well north of the nearest known occurrences of the species.
<i>Rhus kearneyi</i>	Kearney Sumac	Found on slopes arid in canyons and drainages.	January-March	No suitable habitat in or immediately adjacent to the Project area.
<i>Stephanomeria schottii</i>	Schott Wire-Lettuce	Restricted to semi-stabilized sand dunes of the Gran Desierto region.	March-May	No suitable habitat in or immediately adjacent to the Project area.
<i>Triteleiopsis palmeri</i>	Blue Sand Lilly	Sandy areas, including dunes in low deserts.	February-May	No suitable habitat in or immediately adjacent to the Project area.
<i>Washingtonia filifera</i>	California Fan Palm	Found in desert oases, this species requires constant water. Only known from a few locations in Arizona.	Late Spring-Early Summer	No suitable habitat in or immediately adjacent to the Project area.

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USFWS. 2010b. Endangered and Threatened Wildlife and Plants; Draft Yuma Clapper Rail (*Rallus longirostris yumanensis*) Recovery Plan, First Revision. February, 2010.

USFWS. 2014. Draft Recovery Plan for the Sonoran Pronghorn (*Antilocarpa Americana sonoriensis*), Second Revision. 320 pp.

**Appendix C-1**  
**AGFD On-line Project Evaluation Program Search Results**

# Arizona Environmental Online Review Tool Report



## *Arizona Game and Fish Department Mission*

*To conserve Arizona's diverse wildlife resources and manage for safe, compatible outdoor recreation opportunities for current and future generations.*

**Project Name:**

White Wing Ranch Gen-tie Project

**Project Description:**

The approximately 3.5-mile gen-tie line would connect the White Wing North Solar Project to an existing substation.

**Project Type:**

Energy Storage/Production/Transfer, Energy Transfer, Power line/electric line (new)

**Contact Person:**

Patrick Golden

**Organization:**

Heritage Environmental Consultants

**On Behalf Of:**

CONSULTING

**Project ID:**

HGIS-03677

*Please review the entire report for project type and/or species recommendations for the location information entered. Please retain a copy for future reference.*

**Disclaimer:**

1. This Environmental Review is based on the project study area that was entered. The report must be updated if the project study area, location, or the type of project changes.
2. This is a preliminary environmental screening tool. It is not a substitute for the potential knowledge gained by having a biologist conduct a field survey of the project area. This review is also not intended to replace environmental consultation (including federal consultation under the Endangered Species Act), land use permitting, or the Departments review of site-specific projects.
3. The Departments Heritage Data Management System (HDMS) data is not intended to include potential distribution of special status species. Arizona is large and diverse with plants, animals, and environmental conditions that are ever changing. Consequently, many areas may contain species that biologists do not know about or species previously noted in a particular area may no longer occur there. HDMS data contains information about species occurrences that have actually been reported to the Department. Not all of Arizona has been surveyed for special status species, and surveys that have been conducted have varied greatly in scope and intensity. Such surveys may reveal previously undocumented population of species of special concern.
4. HabiMap Arizona data, specifically Species of Greatest Conservation Need (SGCN) under our State Wildlife Action Plan (SWAP) and Species of Economic and Recreational Importance (SERI), represent potential species distribution models for the State of Arizona which are subject to ongoing change, modification and refinement. The status of a wildlife resource can change quickly, and the availability of new data will necessitate a refined assessment.

**Locations Accuracy Disclaimer:**

Project locations are assumed to be both precise and accurate for the purposes of environmental review. The creator/owner of the Project Review Report is solely responsible for the project location and thus the correctness of the Project Review Report content.

**Recommendations Disclaimer:**

1. The Department is interested in the conservation of all fish and wildlife resources, including those species listed in this report and those that may have not been documented within the project vicinity as well as other game and nongame wildlife.
2. Recommendations have been made by the Department, under authority of Arizona Revised Statutes Title 5 (Amusements and Sports), 17 (Game and Fish), and 28 (Transportation).
3. Potential impacts to fish and wildlife resources may be minimized or avoided by the recommendations generated from information submitted for your proposed project. These recommendations are preliminary in scope, designed to provide early considerations on all species of wildlife.
4. Making this information directly available does not substitute for the Department's review of project proposals, and should not decrease our opportunity to review and evaluate additional project information and/or new project proposals.
5. Further coordination with the Department requires the submittal of this Environmental Review Report with a cover letter and project plans or documentation that includes project narrative, acreage to be impacted, how construction or project activity(s) are to be accomplished, and project locality information (including site map). Once AGFD had received the information, please allow 30 days for completion of project reviews. Send requests to:

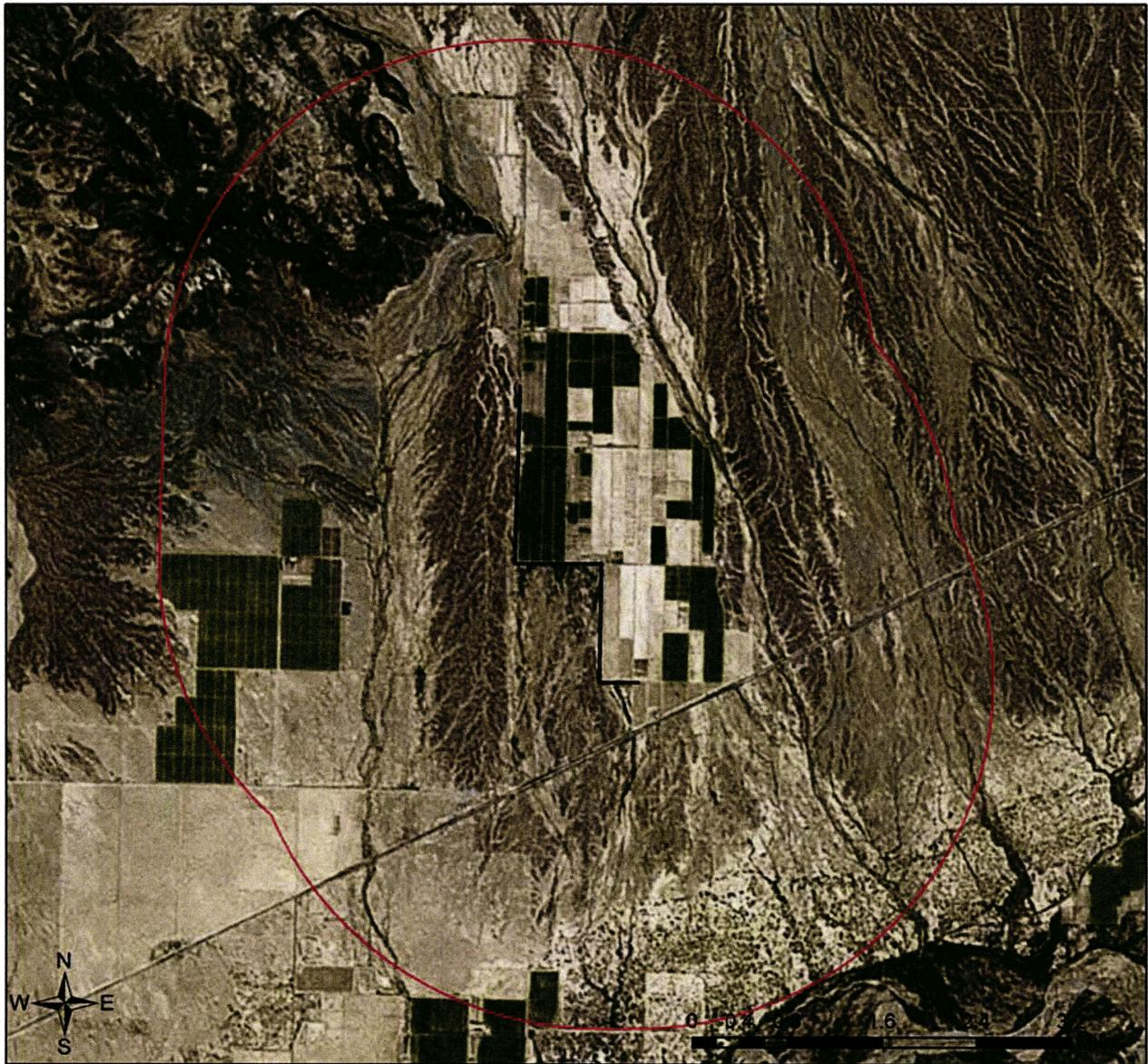
**Project Evaluation Program, Habitat Branch**  
**Arizona Game and Fish Department**  
**5000 West Carefree Highway**  
**Phoenix, Arizona 85086-5000**  
**Phone Number: (623) 236-7600**  
**Fax Number: (623) 236-7366**

**Or**

[PEP@azgfd.gov](mailto:PEP@azgfd.gov)

6. Coordination may also be necessary under the National Environmental Policy Act (NEPA) and/or Endangered Species Act (ESA). Site specific recommendations may be proposed during further NEPA/ESA analysis or through coordination with affected agencies

# White Wing Ranch Gen-tie Project Aerial Image Basemap With Locator Map



- Project Boundary
- Buffered Project Boundary

Project Size (acres): 24.19

Lat/Long (DD): 32.9713 / -113.5059

County(s): Yuma

AGFD Region(s): Yuma

Township/Range(s): T5S, R12W

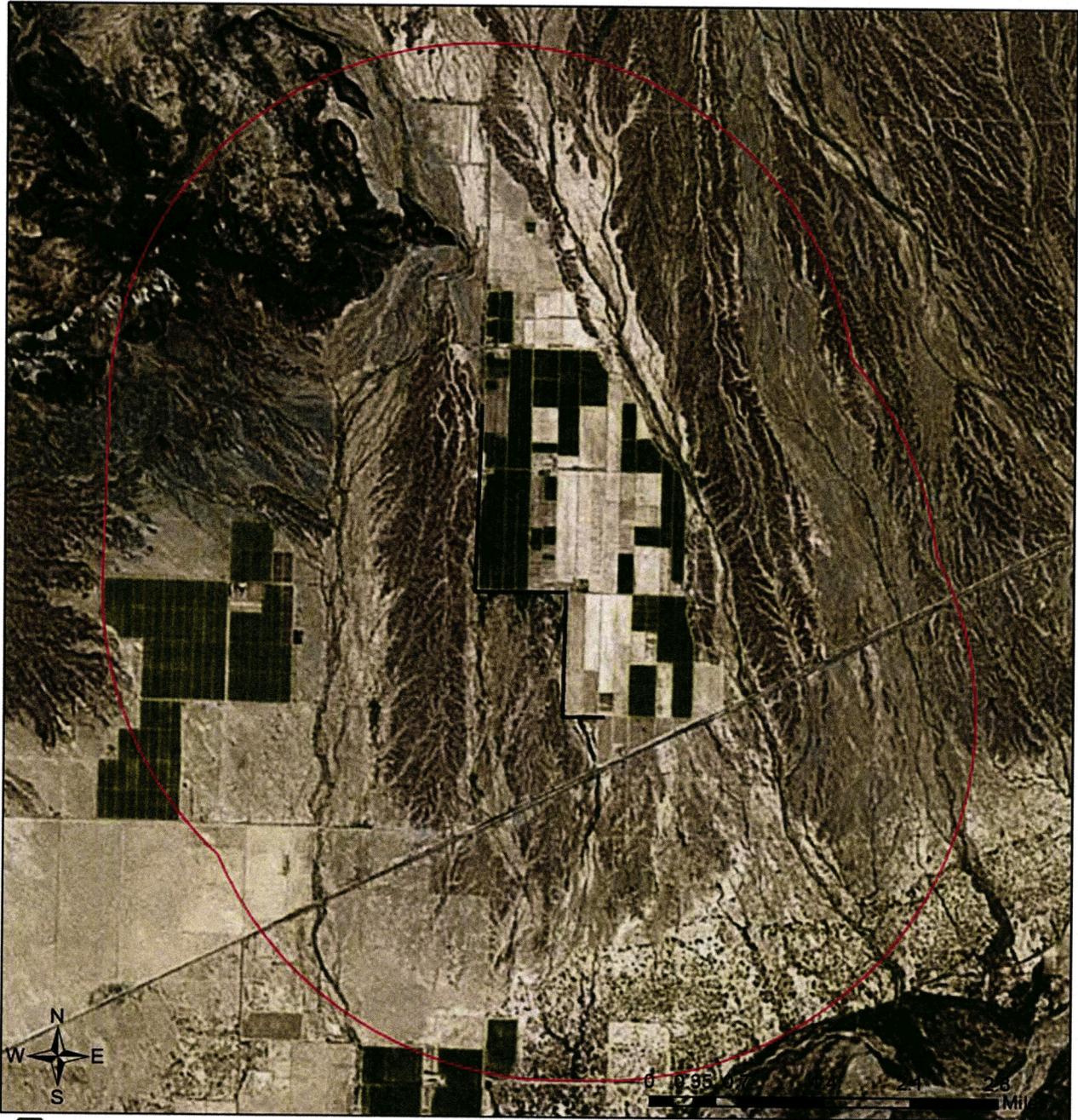
USGS Quad(s): HORN; AZTEC NW

Service Layer Credits: Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong),



# White Wing Ranch Gen-tie Project

## Web Map As Submitted By User



- Project Boundary
- Buffered Project Boundary

Project Size (acres): 24.19

Lat/Long (DD): 32.9713 / -113.5059

County(s): Yuma

AGFD Region(s): Yuma

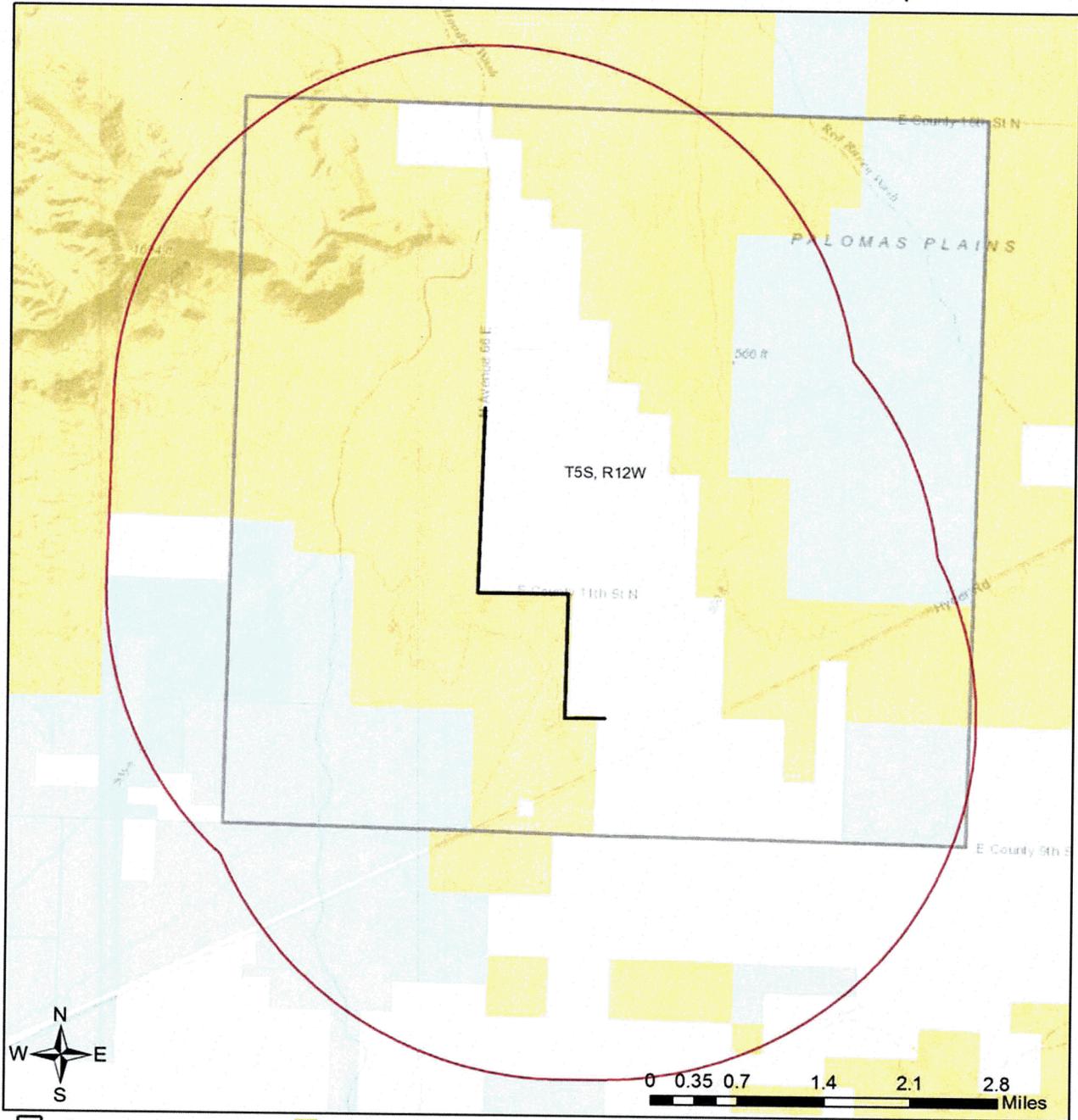
Township/Range(s): T5S, R12W

USGS Quad(s): HORN; AZTEC NW

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the GIS user community

## White Wing Ranch Gen-tie Project

### Topo Basemap With Township/Ranges and Land Ownership



- |                           |                          |
|---------------------------|--------------------------|
| Project Boundary          | Mixed/Other              |
| Buffered Project Boundary | National Park/Mon.       |
| Township/Ranges           | Private                  |
| AZ Game and Fish Dept.    | State and Regional Parks |
| BLM                       | State Trust              |
| BOR                       | US Forest Service        |
| Indian Res.               | Wildlife Area/Refuge     |
| Military                  |                          |

Project Size (acres): 24.19  
 Lat/Long (DD): 32.9713 / -113.5059  
 County(s): Yuma  
 AGFD Region(s): Yuma  
 Township/Range(s): T5S, R12W  
 USGS Quad(s): HORN; AZTEC NW

Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

**Special Status Species and Special Areas Documented within 3 Miles of Project Vicinity**

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
<i>Antilocapra americana sonoriensis</i>	Sonoran Pronghorn	LE, XN				1A

Note: Status code definitions can be found at [http://www.azgfd.gov/w\\_c/edits/hdms\\_status\\_definitions.shtml](http://www.azgfd.gov/w_c/edits/hdms_status_definitions.shtml).

**Species of Greatest Conservation Need  
 Predicted within Project Vicinity based on Predicted Range Models**

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
<i>Aix sponsa</i>	Wood Duck					1B
<i>Ammospermophilus harrisi</i>	Harris' Antelope Squirrel					1B
<i>Anthus spragueii</i>	Sprague's Pipit	C*				1A
<i>Aquila chrysaetos</i>	Golden Eagle	BGA		S		1B
<i>Botaurus lentiginosus</i>	American Bittern					1B
<i>Buteo regalis</i>	Ferruginous Hawk	SC		S		1B
<i>Castor canadensis</i>	American Beaver					1B
<i>Charadrius montanus</i>	Mountain Plover	SC				1B
<i>Colaptes chrysoides</i>	Gilded Flicker			S		1B
<i>Corynorhinus townsendii pallescens</i>	Pale Townsend's Big-eared Bat	SC	S	S		1B
<i>Euderma maculatum</i>	Spotted Bat	SC	S	S		1B
<i>Eumops perotis californicus</i>	Greater Western Bonneted Bat	SC		S		1B
<i>Gopherus morafkai</i>	Sonoran Desert Tortoise	C*	S			1A
<i>Haliaeetus leucocephalus</i>	Bald Eagle	SC, BGA	S	S		1A
<i>Heloderma suspectum</i>	Gila Monster					1A
<i>Incilius alvarius</i>	Sonoran Desert Toad					1B
<i>Lasiurus xanthinus</i>	Western Yellow Bat		S			1B
<i>Lithobates yavapaiensis</i>	Lowland Leopard Frog	SC	S	S		1A
<i>Macrotus californicus</i>	California Leaf-nosed Bat	SC		S		1B
<i>Melanerpes uropygialis</i>	Gila Woodpecker					1B
<i>Melospiza lincolnii</i>	Lincoln's Sparrow					1B
<i>Melospiza aberti</i>	Abert's Towhee		S			1B
<i>Myotis velifer</i>	Cave Myotis	SC		S		1B
<i>Myotis yumanensis</i>	Yuma Myotis	SC				1B
<i>Nyctinomops femorosaccus</i>	Pocketed Free-tailed Bat					1B
<i>Ovis canadensis nelsoni</i>	Desert Bighorn Sheep					1B
<i>Passerculus sandwichensis</i>	Savannah Sparrow					1B
<i>Perognathus amplus</i>	Arizona Pocket Mouse					1B
<i>Perognathus longimembris</i>	Little Pocket Mouse					1B
<i>Tadarida brasiliensis</i>	Brazilian Free-tailed Bat					1B
<i>Thomomys bottae subsimilis</i>	Harquahala Southern Pocket Gopher	SC				1B
<i>Toxostoma lecontei</i>	Le Conte's Thrasher					1B

**Species of Greatest Conservation Need  
 Predicted within Project Vicinity based on Predicted Range Models**

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Troglodytes pacificus	Pacific Wren					1B
Vireo bellii arizonae	Arizona Bell's Vireo					1B
Vulpes macrotis	Kit Fox					1B

**Species of Economic and Recreation Importance Predicted within Project Vicinity**

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Callipepla gambelii	Gambel's Quail					
Odocoileus hemionus	Mule Deer					
Ovis canadensis mexicana	Mexicana Desert Bighorn Sheep					1B
Pecari tajacu	Javelina					
Puma concolor	Mountain Lion					
Zenaida asiatica	White-winged Dove					
Zenaida macroura	Mourning Dove					

**Project Type: Energy Storage/Production/Transfer, Energy Transfer, Power line/electric line (new)**

**Project Type Recommendations:**

Minimize potential introduction or spread of exotic invasive species. Invasive species can be plants, animals (exotic snails), and other organisms (e.g., microbes), which may cause alteration to ecological functions or compete with or prey upon native species and can cause social impacts (e.g., livestock forage reduction, increase wildfire risk). The terms noxious weed or invasive plants are often used interchangeably. Precautions should be taken to wash all equipment utilized in the project activities before leaving the site. Arizona has noxious weed regulations (Arizona Revised Statutes, Rules R3-4-244 and R3-4-245). See Arizona Department of Agriculture website for restricted plants, <https://agriculture.az.gov/>. Additionally, the U.S. Department of Agriculture has information regarding pest and invasive plant control methods including: pesticide, herbicide, biological control agents, and mechanical control, <http://www.usda.gov/wps/portal/usdahome>. The Department regulates the importation, purchasing, and transportation of wildlife and fish (Restricted Live Wildlife), please refer to the hunting regulations for further information [http://www.azgfd.gov/h\\_f/hunting\\_rules.shtml](http://www.azgfd.gov/h_f/hunting_rules.shtml)

The Department recommends that wildlife surveys are conducted to determine if noise-sensitive species occur within the project area. Avoidance or minimization measures could include conducting project activities outside of breeding seasons.

For any powerlines built, proper design and construction of the transmission line is necessary to prevent or minimize risk of electrocution of raptors, owls, vultures, and golden or bald eagles, which are protected under state and federal laws. Limit project activities during the breeding season for birds, generally May through late August, depending on species in the local area (raptors breed in early February through May). Conduct avian surveys to determine bird species that may be utilizing the area and develop a plan to avoid disturbance during the nesting season. For underground powerlines, trenches should be covered or back-filled as soon as possible. Incorporate escape ramps in ditches or fencing along the perimeter to deter small mammals and herptefuna (snakes, lizards, tortoise) from entering ditches. In addition, indirect affects to wildlife due to construction (timing of activity, clearing of rights-of-way, associated bridges and culverts, affects to wetlands, fences) should also be considered and mitigated.

Based on the project type entered, coordination with State Historic Preservation Office may be required (<http://azstateparks.com/SHPO/index.html>).

Based on the project type entered, coordination with U.S. Fish and Wildlife Service (Migratory Bird Treaty Act) may be required (<http://www.fws.gov/southwest/es/arizona/>).

Vegetation restoration projects (including treatments of invasive or exotic species) should have a completed site-evaluation plan (identifying environmental conditions necessary to re-establish native vegetation), a revegetation plan (species, density, method of establishment), a short and long-term monitoring plan, including adaptive management guidelines to address needs for replacement vegetation.



THE STATE OF ARIZONA  
**GAME AND FISH DEPARTMENT**

5000 W. CAREFREE HIGHWAY  
PHOENIX, AZ 85086-5000  
(602) 942-3000 • WWW.AZGFD.GOV

REGION IV, 9140 E. 28TH ST., YUMA, AZ 85365

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December 16, 2015

Juan Leal Rubio  
Senior Planner  
Yuma County  
Planning and Zoning Division  
2351 West 26th Street  
Yuma, Arizona 85364

RE: Special Use Permit No. 15-07 White Wing Solar Photovoltaic Facility

Dear Mr. Rubio:

The Arizona Game and Fish Department (Department) has reviewed the above-referenced Special Use Permit for the White Wing Solar Photovoltaic facility. The following comments are provided for your consideration.

Under Title 17 of the Arizona Revised Statutes, the Arizona Game and Fish Department (Department), by and through the Arizona Game and Fish Commission (Commission), has jurisdictional authority and public trust responsibilities for management of the state's fish and wildlife resources. It is the mission of the Department to conserve Arizona's diverse fish and wildlife resources and manage for safe, compatible outdoor recreation opportunities for current and future generations.

The Department understands that this Special Use Permit is for a 1,450 acre solar photovoltaic facility that will generate 210 MW of electricity. The land is currently zoned RA 40 and is located north of the Palomas Road.

The Department notes that the proposed facility is on active agricultural lands and is immediately north of an existing photovoltaic facility. The Heritage Database Management System was accessed and there are no observational records of special status species within 5 miles of the facility. For these reasons we do not anticipate significant impacts to wildlife will result from this project.

Thank you for the opportunity to review and comment on this project. If you have any questions you may contact me at 928-341-4047 or [bknowles@azgfd.gov](mailto:bknowles@azgfd.gov).

Juan Leal Rubio  
December 16, 2015  
Page 2

Sincerely



William Knowles  
Region IV Habitat Program Manager

cc: Pat Barber, Regional Supervisor Region IV  
Joyce Francis, Habitat Branch Chief  
Laura Canaca Project Evaluation Program Supervisor

AGFD # M15-12182728

**Appendix C-2**  
**Representative Photographs**









Exhibit

D

# EXHIBIT D

## BIOLOGICAL RESOURCES

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As stated in the Arizona Administrative Code, Title 14, Chapter 3, Article 2:

*“List the fish, wildlife, plant life and associated forms of life associated in the vicinity of the proposed sites or route and describe the effects, if any, other proposed facilities will have thereon.”*

### ***CURRENT CONDITIONS***

Field reconnaissance surveys were conducted in September 2015 by a qualified field biologist to identify habitats and species on or near the Project Site. Habitats were evaluated and characterized within the Project vicinity during this field reconnaissance. The area is located on BLM-administered lands immediately adjacent to the existing Agua Caliente Solar Project. The endpoints of the Gen-tie route are previously disturbed.

Prior to conducting fieldwork, aspects such as ecology and habitat requirements of various species were reviewed. Habitat conditions and wildlife observations on and around the Project Site were recorded. Information including habitat requirements, known occurrences, and habitat types, was used to evaluate the potential for occurrence of species and the potential effects of Project implementation on biological resources within the vicinity of the proposed Gen-tie Line and Project Substations.

**Tables D-1, D-2, D-3, and D-4** contain lists of common plant life, mammals, birds, reptiles and amphibians potentially present in Yuma County and within the vicinity of the Project Site. **Table D-3** specifically lists the species noted during a breeding bird survey conducted by Arizona Game & Fish Department (AGFD) near the Project Site (Corman 2008).

### ***Vegetation***

**Table D-1** presents a list of common plant species that potentially could occur or have been recorded in the vicinity of the Project Site. Native Sonoran Desert vegetation communities in this part of the Sonoran Desert are dominated by what is characterized as the Sonoran Desertscrub Ecosystem (Brown 1994). The Lower Colorado River Valley Subdivision – Creosotebush-White Bursage Series is the dominant native feature on native lands in the surrounding area. Ephemeral drainages (xeroriparian areas) also occur in two significant washes: Hoodoo Wash is located about one mile west of the Project Site, and Baragan Wash is located about 2.5 miles east of the Project Site

The Lower Colorado River Valley Subdivision is the driest of the Sonoran Desert subdivisions. Plant growth is typically both open and simple. The most common plant association in this

subdivision is the Creosote Bush-White Bursage Series. Species commonly found along drainages and on flats include creosote bush (*Larrea tridentata*), white bursage (*Ambrosia dumosa*), honey mesquite (*Prosopis glandulosa*), ironwood (*Olneya tesota*), blue palo verde (*Cercidium floridum*), foothills paloverde (*Cercidium microphyllum*), smoketree (*Psoralea argemone*), ocotillo (*Fouquieria splendens*), brittlebush (*Encelia farinosa*), and saguaro (*Carnegiea gigantea*). Other shrub species in this series include four-wing saltbush (*Atriplex canescens*), brittlebush (*Encelia farinosa*), and burweed (*Isocoma tenuifolia*). Cactus species including barrel cactus (*Ferrocactus wislizenii*) and jumping cholla (*Opuntia bigelovii*) can also be found in low densities.

A total of six covertypes were recorded during the field survey of the Project Site. Descriptions of the various covertypes can be found below and **Figure D-1** depicts their location and extent.

### **Mesquite – Tamarisk**

This covertype within the Gen-tie corridor was comprised of very dense stands of honey mesquite (*Prosopis glandulosa*) and tamarisk (*Tamarix ramosissima*). The understory in this covertype is dominated by Sahara mustard (*Brassica tournefortii*), arrowweed (*Pluchea sericea*), and big galleta grass (*Hilaria rigida*). Soils were fine clays to silts and showed evidence of some pooling in low areas, but no evidence of sustained inundation or regular flow. Overall vegetative cover was 90-100%.

### **Mesquite Woodland**

This covertype included areas of variable cover (30-75%) dominated primarily by honey mesquite. In addition to the mesquite, other trees were present in these areas including ironwood (*Olneya tesota*) and blue palo verde (*Cercidium floridum* var. *floridum*). Understory species included creosotebush (*Larrea tridentata*), white bursage (*Ambrosia dumosa*), Sahara mustard, atriplex (*Atriplex* sp.), and brittlebush (*Encelia farinosa*). These areas were largely flat and showed less evidence of pooling than Mesquite – Tamarisk.

### **Atriplex Scrub**

This covertype is comprised of monotypic stands of atriplex with approximately 50% aerial cover. These areas occurred primarily between areas of Mesquite Woodland and disturbed areas, and may represent formerly disturbed sites. Soils were fine, compacted, and showed evidence of occasional pooling of water.

### **Xero-Riparian**

Xero-riparian covertypes were exclusively associated with ephemeral drainage features. The overstory in these areas was dominated by honey mesquite, tamarisk, blue palo verde, and ironwood. Understory species included Sahara mustard, arrowweed, atriplex, big galleta grass, and brittlebush. Soils were variable and showed evidence of scour, sediment sorting and shelving as a result of ephemeral water flow.

### **Creosotebush – White Bursage**

This coverytype within the Gen-tie corridor was relatively low in overall plant diversity, being dominated almost exclusively by creosotebush and white bursage. Overall plant cover was between 5% and 25%. Soils in this coverytype ranged from loose silty soils in low spots to compacted areas of gravel and cobbles similar to desert pavement.

### **Disturbed**

Disturbed habitats are those where human activity or infrastructure dominates the landscape and little or no native vegetation is present. Within the Gen-tie corridor these areas included dirt roads, berms, retention basins, and other features. These areas do not represent suitable habitat for any native species except as animals may briefly transit through these areas.

### ***Wildlife***

Wildlife resources that have the potential to occur within the vicinity of the Project Site are predominantly associated with Sonoran Desertscrub habitats and agricultural lands. Species occurrence, abundance, and distribution are strongly influenced by the presence of surface water, topography, and habitat types within and surrounding the Project Site which contains lands that are dominated by creosote bush uplands with palo verde and ironwood dominating washes, with a low density of saguaro and adjacent lands that include disturbed lands and irrigated agricultural land. **Tables D-2, D-3, and D-4** present common mammals, birds, reptiles and amphibians that have potential to occur or have been recorded in the vicinity of the Project Site.

The sensitive and special-status species that could occur within the Project Site are discussed in **Exhibit C**.

### ***POTENTIAL EFFECTS***

The Project route would be located on desert habitats on BLM-managed land adjacent to the existing Agua Caliente Solar Project site. Ground disturbance and modifications to these habitats from development of the proposed Gen-tie would occur at structure locations, the roads used to access them, and at stringing /pull sites. The Project endpoints / substations would be built on previously disturbed land. Construction and operation of the Project would result in negligible impacts to habitats and wildlife.

TABLE D-1 - COMMON PLANT SPECIES		
Potential Occurrence in Native Habitats in the Vicinity of the Project Site <sup>1</sup>		
Common Name	Scientific Name	Ecosystem
Triangleleaf bursage	<i>Ambrosia deltoidea</i>	Sonoran Desertscrub, Sonoran Riparian
White bursage	<i>Ambrosia dumosa</i>	Sonoran Desertscrub
Fiddlehead	<i>Amsinckia intermedia</i>	Sonoran Riparian
Purple three-awn	<i>Aristida purpurea</i>	Sonoran Desertscrub
Four-wing saltbush	<i>Atriplex canescens</i>	Sonoran Desertscrub
All scale	<i>Atriplex polycarpa</i>	Sonoran Desertscrub
Datura	<i>Datura stramonium</i>	Sonoran Riparian
Englemann's hedgehog cactus	<i>Echinocereus englemannii</i>	Sonoran Desertscrub
Brittlebush	<i>Encelia farinosa</i>	Sonoran Desertscrub, Sonoran Riparian
Skeletonweed	<i>Eriogonum deflexum</i>	Sonoran Desertscrub
Filaree	<i>Erodium cicutarium</i>	Sonoran Desertscrub
Barrel cactus	<i>Ferocactus wislizenii</i>	Sonoran Desertscrub
Ocotillo	<i>Fouquieria splendens</i>	Sonoran Desertscrub
Rhatany	<i>Krameria parviflora</i>	Sonoran Desertscrub, Sonoran Riparian
Creosote bush	<i>Larrea tridentata</i>	Sonoran Desertscrub, Sonoran Riparian
Wolfberry	<i>Lycium spp.</i>	Sonoran Desertscrub, Sonoran Riparian
Little fishhook cactus	<i>Mammillaria thornberi</i>	Sonoran Desertscrub
Teddybear cholla	<i>Opuntia bigelovii</i>	Sonoran Desertscrub
Prickly pear cactus	<i>Opuntia engelmannii</i>	Sonoran Desertscrub
Jumping cholla	<i>Opuntia fulgida</i>	Sonoran Desertscrub
Desert mistletoe	<i>Phoradendron californicum</i>	Sonoran Desertscrub
Galleta grass	<i>Pleuraphis jamesii</i>	Sonoran Desertscrub, Sonoran Riparian
Mesquite	<i>Prosopis spp.</i>	Sonoran Riparian
Bladdersage	<i>Salazaria mexicana</i>	Sonoran Desertscrub
Russian thistle	<i>Salsola iberica</i>	Sonoran Desertscrub, Sonoran Riparian
London rocket	<i>Sisymbrium irio</i>	Sonoran Desertscrub, Sonoran Riparian
Globe mallow	<i>Sphaeralcea spp.</i>	Sonoran Desertscrub, Sonoran Riparian

<sup>1</sup> Brown 1994

<b>TABLE D-2 - MAMMAL SPECIES</b>	
<b>Potential Occurrence in the Vicinity of the Project Site<sup>1</sup></b>	
<b>Common Name</b>	<b>Scientific Name</b>
Harris' antelope squirrel	<i>Ammospermophilus harrisi</i>
Pallid bat	<i>Antrozous pallidus</i>
Coyote	<i>Canis latrans</i>
Desert kangaroo rat	<i>Dipodomys deserti</i>
Merriam's kangaroo rat	<i>Dipodomys merriami</i>
Big brown bat	<i>Eptesicus fuscus</i>
Spotted bat	<i>Euderma maculatum</i>
Bobcat	<i>Felis rufus</i>
Southern yellow bat	<i>Lasiurus ega xanthinus</i>
Black-tailed jackrabbit	<i>Lepus californicus</i>
California myotis	<i>Myotis californicus</i>
Cave myotis	<i>Myotis velifer</i>
White-throated wood rat	<i>Neotoma albigula</i>
Desert wood rat	<i>Neotoma lepida</i>
Desert mule deer	<i>Odocoileus hemionus crooki</i>
Muskrat	<i>Ondatra zibethicus</i>
Southern grasshopper mouse	<i>Onychomys torridus</i>
Arizona pocket mouse	<i>Perognathus amplus</i>
Bailey's pocket mouse	<i>Perognathus baileyi</i>
Rock pocket mouse	<i>Perognathus intermedius</i>
Little pocket gopher	<i>Perognathus longimembris</i>
Desert pocket mouse	<i>Perognathus penicillatus</i>
Canyon mouse	<i>Peromyscus crinitus</i>
Cactus mouse	<i>Peromyscus eremicus</i>
Deer mouse	<i>Peromyscus maniculatus</i>
Western pipistrelle	<i>Pipistrellus Hesperus</i>
Raccoon	<i>Procyon lotor</i>
Western harvest mouse	<i>Reithrodontomys megalotis</i>
Round-tailed ground squirrel	<i>Spermophilus tereticaudus</i>
Western spotted skunk	<i>Spilogale gracilis</i>
Desert cottontail	<i>Sylvilagus audubonii</i>
American free-tailed bat	<i>Tadarida brasiliensis</i>
Pocketed free-tailed bat	<i>Tadarida femorosacca</i>
Big free-tailed bat	<i>Tadarida macrotis</i>
Badger	<i>Taxidae taxus</i>
Botta's pocket gopher	<i>Thomomys bottae</i>
Kit fox	<i>Vulpes macrotis</i>

<sup>1</sup> Hoffmeister 1986.

**TABLE D-3 - BIRD SPECIES**  
**Potential Occurrence in the Vicinity of the Project Site<sup>1</sup>**

Common Name	Scientific Name
Cooper's Hawk	<i>Accipiter cooperii</i>
White-throated Swift	<i>Aeronautes saxatalis</i>
Red-winged Blackbird	<i>Agelaius phoeniceus</i>
Black-throated Sparrow	<i>Amphispiza bilineata</i>
Cinnamon Teal	<i>Anas cyanoptera</i>
Black-chinned Hummingbird	<i>Archilochus alexandri</i>
Western Burrowing Owl	<i>Athene cunicularia hypugaea</i>
Verdin	<i>Auriparus flaviceps</i>
Great Horned Owl	<i>Bubo virginianus</i>
Red-tailed Hawk	<i>Buteo jamaicensis</i>
Lark Bunting	<i>Calamospiza melanocorys</i>
Gambel's Quail	<i>Callipepla gambelii</i>
Anna's Hummingbird	<i>Calypte anna</i>
Costa's Hummingbird	<i>Calypte costae</i>
Cactus Wren	<i>Campylorhynchus brunneicapillus</i>
Northern Cardinal	<i>Cardinalis cardinalis</i>
Pyrrhuloxia	<i>Cardinalis sinuatus</i>
Lesser Goldfinch	<i>Carduelis arealtria</i>
House Finch	<i>Carpodacus mexicanus</i>
Turkey Vulture	<i>Cathartes aura</i>
Hermit Thrush	<i>Catharus guttatus</i>
Canyon Wren	<i>Catherpes mexicanus</i>
Vaux's Swift	<i>Chaetura vauxi</i>
Killdeer	<i>Charadrius vociferus</i>
Lark Sparrow	<i>Chondestes grammacus</i>
Lesser Nighthawk	<i>Chordeiles acutipennis</i>
Northern Harrier	<i>Circus cyaneus</i>
Gilded Flicker	<i>Colaptes chrysoides</i>
Rock Dove	<i>Columba livia</i>
Inca Dove	<i>Columbina inca</i>
Common Ground-dove	<i>Columbina passerine</i>
Common Raven	<i>Corvus corax</i>
Yellow-rumped Warbler	<i>Dendroica coronata</i>
Yellow Warbler	<i>Dendroica petechia</i>
Townsend's Warbler	<i>Dendroica townsendi</i>
Pacific-slope Flycatcher	<i>Empidonax difficilis</i>
Gray Flycatcher	<i>Empidonax wrightii</i>
Horned Lark	<i>Eremophila alpestris</i>
Prairie Falcon	<i>Falco mexicanus</i>

**TABLE D-3 - BIRD SPECIES  
Potential Occurrence in the Vicinity of the Project Site<sup>1</sup>**

Common Name	Scientific Name
American Kestrel	<i>Falco sparverius</i>
Greater Roadrunner	<i>Geococcyx californianus</i>
Blue Grosbeak	<i>Guiraca carulea</i>
Cliff Swallow	<i>Hirundo pyrrhonota</i>
Barn Swallow	<i>Hirundo rustica</i>
Bullock's Oriole	<i>Icterus bullockii</i>
Hooded Oriole	<i>Icterus cucullatus</i>
Bullock's Oriole	<i>Icterus galbula</i>
Loggerhead Shrike	<i>Lanius ludovicianus</i>
Gila Woodpecker	<i>Melanerpes uropygialis</i>
Song Sparrow	<i>Melospiza melodia</i>
Elf Owl	<i>Micrathene whitneyi</i>
Northern Mockingbird	<i>Mimus polyglottos</i>
Bronzed Cowbird	<i>Molothrus aeneus</i>
Brown-headed Cowbird	<i>Molothrus ater</i>
Ash-throated Flycatcher	<i>Myiarchus cinerascens</i>
Brown-crested Flycatcher	<i>Myiarchus tyrannulus</i>
MacGillivray's Warbler	<i>Oporornis tolmiei</i>
Western Screech Owl	<i>Otus kennicottii</i>
House Sparrow	<i>Passer domesticus</i>
Phainopepla	<i>Phainopepla nitens</i>
Common Poorwill	<i>Phalaenoptilus nuttallii</i>
Black-headed Grosbeak	<i>Pheucticus melanocephalus</i>
Ladder-backed Woodpecker	<i>Picoides scalaris</i>
Abert's Towhee	<i>Pipilo aberti</i>
Green-tailed Towhee	<i>Pipilo chlorurus</i>
Western Tanager	<i>Piranga ludoviciana</i>
Black-tailed Gnatcatcher	<i>Polioptila melanura</i>
Vermillion Flycatcher	<i>Pyrocephalus rubinus</i>
Great-tailed Grackle	<i>Quiscalus mexicanus</i>
Rock Wren	<i>Salpinctes obsoletus</i>
Black Phoebe	<i>Sayornis nigricans</i>
Say's Phoebe	<i>Sayornis saya</i>
Brewer's Sparrow	<i>Spizella breweri</i>
Northern Rough-winged Swallow	<i>Stelgidopteryx serripennis</i>
Western Meadowlark	<i>Sturnella neglecta</i>
European Starling	<i>Sturnus vulgaris</i>
Bendire's Thrasher	<i>Toxostoma bendirei</i>
Crissal Thrasher	<i>Toxostoma crissale</i>

**TABLE D-3 - BIRD SPECIES  
Potential Occurrence in the Vicinity of the Project Site<sup>1</sup>**

Common Name	Scientific Name
Curve-billed Thrasher	<i>Toxostoma curvirostre</i>
Le Conte's Thrasher	<i>Toxostoma lecontei</i>
Western Kingbird	<i>Tyrannus verticalis</i>
Barn Owl	<i>Tyto alba</i>
Orange-crowned Warbler	<i>Vermivora celata</i>
Lucy's Warbler	<i>Vermivora luciae</i>
Nashville Warbler	<i>Vermivora ruficapilla</i>
Bell's Vireo	<i>Vireo bellii</i>
Warbling Vireo	<i>Vireo gilvus</i>
Wilson's Warbler	<i>Wilsonia pusilla</i>
White-winged Dove	<i>Zenaida asiatica</i>
Mourning Dove	<i>Zenaida macroura</i>
White-crowned Sparrow	<i>Zonotrichia leucophrys</i>

<sup>1</sup>Corman 2008; Corman and Wise-Gervais 2005; Glinski 1998.

**TABLE D-4 - REPTILE AND AMPHIBIAN SPECIES  
Potential Occurrence in the Vicinity of the Project Site<sup>1</sup>**

Common Name	Scientific Name
Arizona glossy snake	<i>Arizona elegans noctivaga</i>
Sonoran desert toad	<i>Bufo alvarius</i>
Great plains toad	<i>Bufo cognatus</i>
Red-spotted toad	<i>Bufo punctatus</i>
Woodhouse's toad	<i>Bufo woodhousii</i>
Common zebra-tailed lizard	<i>Callisaurus draconoides</i>
Desert rosy boa	<i>Charina trivergata</i>
Variable sandsnake	<i>Chilomeniscus cinctus</i>
Western shovel-nosed snake	<i>Chionactis occipitalis</i>
Great Basin whiptail	<i>Cnemidophorus tigris tigris</i>
Desert banded gecko	<i>Coleonyx variegatus variegatus</i>
Western diamond-backed rattlesnake	<i>Crotalus atrox</i>
Sonoran sidewinder	<i>Crotalus cerastes cercobombus</i>
Speckled rattlesnake	<i>Crotalus mitchellii pyrrhus</i>
Black-tailed rattlesnake	<i>Crotalus molossus</i>
Mojave rattlesnake	<i>Crotalus scutulatus</i>
Great Basin collared lizard	<i>Crotaphytus bicinctores</i>
Desert iguana	<i>Dipsosaurus dorsalis</i>
Long-nosed leopard lizard	<i>Gambelia wislizenii</i>
Desert tortoise	<i>Gopherus agassizii</i>
Gila monster	<i>Heloderma suspectum</i>
Night snake	<i>Hypsiglena torquata</i>
Sonoran mud turtle	<i>Kinosternon sonoriense</i>
California kingsnake	<i>Lampropeltis getula</i>
Western blind snake	<i>Leptotyphlops humilis</i>
Red racer	<i>Masticophis flagellum</i>
Sonoran coral snake	<i>Micruroides euryxanthus</i>
Desert horned lizard	<i>Phrynosoma platyrhinos</i>
Spotted leaf-nosed snake	<i>Phyllorhynchus decurtatus</i>
Sonoran gopher snake	<i>Pituophis catenifer</i>
Bullfrog	<i>Rana catesbeiana</i>
Western long-nosed snake	<i>Rhinocheilus lecontei</i>
Western patch-nosed snake	<i>Salvadora hexalepis</i>
Common chuckwalla	<i>Sauromalus obesus</i>
Couch's spadefoot	<i>Scaphiopus couchii</i>
Desert spiny lizard	<i>Sceloporus magister</i>
Western ground snake	<i>Sonora semiannulata</i>
Southwestern black-headed snake	<i>Tantilla hobartsmithi</i>
Checkered garter snake	<i>Thamnophis marcianus</i>

**TABLE D-4 - REPTILE AND AMPHIBIAN SPECIES**  
**Potential Occurrence in the Vicinity of the Project Site<sup>1</sup>**

<b>Common Name</b>	<b>Scientific Name</b>
Western lyre snake	<i>Trimorphodon biscutatus</i>
Spiny softshell	<i>Trionyx spiniferus</i>
Long-tailed brush lizard	<i>Urosaurus graciosus</i>
Ornate tree lizard	<i>Urosaurus ornatus</i>
Common side-blotched lizard	<i>Uta stansburiana</i>
<sup>1</sup> Stebbins 2003.	

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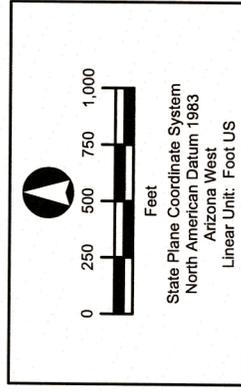
**Legend**

- ▲ Existing Substation
- Proposed Gen-tie
- Existing 500 kV Transmission Line
- Railroad
- ▭ Proposed White Wing Solar Project Location
- ▭ Proposed Gen-Tie ROW - 350 ft
- ▭ Township / Range Boundary
- ▭ Section Boundary

**Vegetative Covertypes**

- ▭ Atriplex Scrub
- ▭ Creosotebush-White Bursage Scrub
- ▭ Disturbed/Developed
- ▭ Agricultural
- ▭ Fallow Agricultural
- ▭ Mesquite Woodland
- ▭ Mesquite-Tamarisk
- ▭ Xero-Riparian
- ▭ Open Water

**Figure D-1a**



<b>WHITE WING SOLAR PROJECT</b>	
<b>Vegetative Covertypes</b>	
Map Extent: Yuma County, Arizona	
Date: 01-26-16	Author: mc



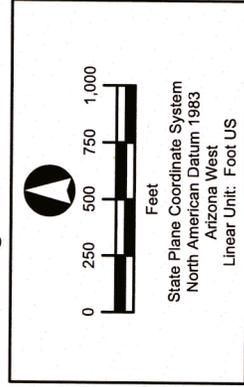
**Legend**

- ▲ Existing Substation
- Proposed Gen-tie
- Existing 500 kV Transmission Line
- +— Railroad
- ▭ Proposed White Wing Solar Project Location
- ▭ Proposed Gen-Tie ROW - 350 ft
- ▭ Township / Range Boundary
- ▭ Section Boundary

**Vegetative Covertypes**

- ▭ Atriplex Scrub
- ▭ Creosotebush-White Bursage Scrub
- ▭ Disturbed/Developed
- ▭ Agricultural
- ▭ Fallow Agricultural
- ▭ Mesquite Woodland
- ▭ Mesquite-Tamarisk
- ▭ Xero-Riparian
- ▭ Open Water

**Figure D-1b**

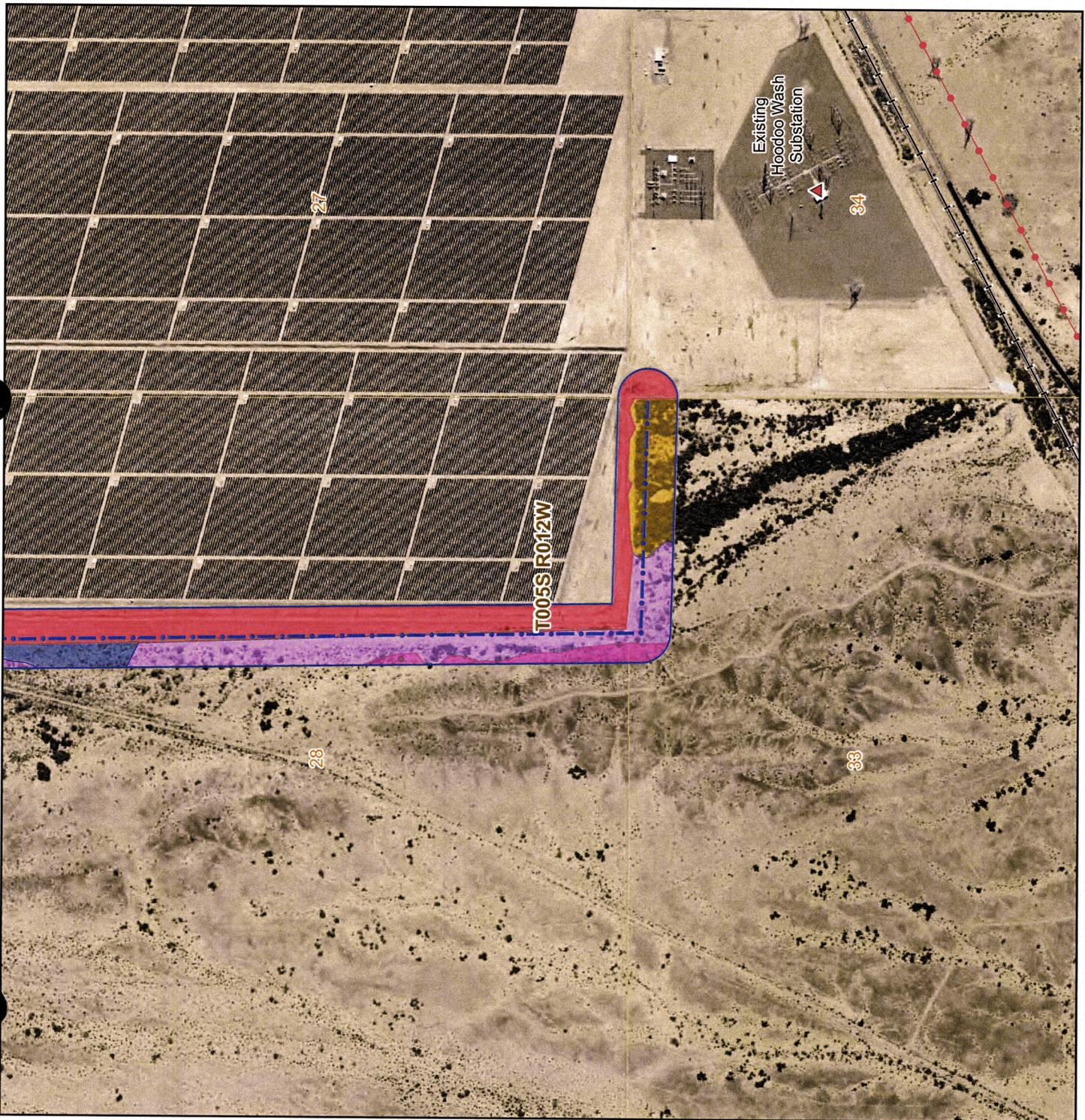


**WHITE WING SOLAR PROJECT**

**Vegetative Covertypes**

Map Extent: Yuma County, Arizona

Date: 01-26-16 Author: inc



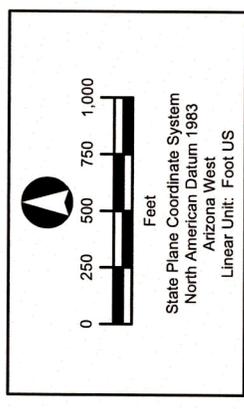
**Legend**

- Existing Substation
- Proposed Gen-tie
- Existing 500 kV Transmission Line
- Railroad
- Proposed White Wing Solar Project Location
- Proposed Gen-Tie ROW - 350 ft
- Township / Range Boundary
- Section Boundary

**Vegetative Covertypes**

- Atriplex Scrub
- Cresotebush-White Bursage Scrub
- Disturbed/Developed
- Agricultural
- Fallow Agricultural
- Mesquite Woodland
- Mesquite-Tamarisk
- Xero-Riparian
- Open Water

**Figure D-1c**



<b>WHITE WING SOLAR PROJECT</b>	
<b>Vegetative Covertypes</b>	
Map Extent: Yuma County, Arizona	
Date: 01-26-16	Author: mc

Exhibit

E

# EXHIBIT E

## SCENIC AREAS, HISTORIC SITES AND STRUCTURES, ARCHAEOLOGICAL SITES

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As stated in the Arizona Administrative Code, Title 14, Chapter 3, Article 2:

*“Describe any existing scenic areas, historic sites and structures or archaeological sites in the vicinity of the proposed facilities and state the effects, if any, the proposed facilities will have thereon.”*

### ***VISUAL RESOURCES***

#### ***Existing Conditions***

Visual resources consist of the landforms, vegetation, rock and water features, and cultural modifications that create the visual character and sensitivity of a landscape. These factors also contribute to the sensitivity of the landscape to visual change. A number of factors were considered to evaluate the potential effect the Project would have on visual resources and characteristic landscapes including Visual Quality, Viewer Concern, Viewer Exposure, and Overall Visual Sensitivity.

Visual Quality (VQ) is a measure of the overall impression or appeal of an area as determined by the particular landscape characteristics such as landforms, rockforms, water features, and vegetation patterns, as well as associated public values. The attributes of variety, vividness, coherence, uniqueness, harmony, and pattern contribute to visual quality classifications of indistinctive (low), common (moderate), and distinctive (high). VQ in the Project area is low to moderate because of the presence of the existing energy infrastructure (substations and transmission lines).

Viewer Concern (VC) addresses the level of interest or concern of viewers regarding an area’s visual resources and is closely associated with viewers’ expectations for the area. VC reflects the importance placed on a given landscape based on the human perceptions of the intrinsic beauty of the existing landforms, rockforms, water features, vegetation patterns, and even cultural features. VC is low in this area because much of it is already developed for solar and electrical uses (energy infrastructure) as well as agriculture.

Viewer Exposure (VE) describes the degree to which viewers are exposed to views of the landscape. Viewer exposure considers landscape visibility (the ability to see the landscape), distance zones (proximity of viewers to the subject landscape), number of viewers, and the duration of view. Landscapes are generally subdivided into three or four distance zones based on relative visibility from travel routes or observation points. Distance zones typically include

foreground, middle-ground, and background. The actual number of zones and distance assigned to each zone depends on the existing terrain characteristics and public policy, and is often determined on a project-by-project basis. The viewer exposure in the Project area is low because it (i) is remote, (ii) can be viewed from a public road on only one side of the Project Site (Palomas Road on the south end) that receives relatively little traffic, and (iii) there are very few residents in the broad surrounding area.

Overall Visual Sensitivity is a concluding assessment derived from a comparison of existing visual quality, viewer concern, and viewer exposure. Visual Sensitivity is classified as low, moderate, or high, and would be deemed medium for this Project area because of the remoteness of the area and the existing solar / electric infrastructure development in the area.

As stated previously, nearly all of the Gen-tie Line (except the endpoints) would be located on federal lands managed by the BLM. The BLM's Visual Resource Management (VRM) system guides visual resources management on BLM-administered lands. Visual resources are defined as the visible physical features on a landscape (e.g., land, water, vegetation, animals, structures, and other features). The visual resource inventory process provides BLM managers with a means for determining visual values. The process involves a scenic quality evaluation, sensitivity level analysis, and a delineation of distance zones. Based on these three factors, BLM-administered lands are placed into one of four visual resource inventory classes. These inventory classes represent the relative value of the visual resources, with Classes I and II being the most valued, Class III representing a moderate value, and Class IV being of least value.

The area where the Project is proposed was originally designated VRM Class III and it has a scenic quality rating of B, a sensitivity rating of medium, and is located in the foreground / middleground distance zone. Through development of the Agua Caliente SEZ, the VRM was amended to Class IV. Visual management objectives are predefined for each VRM class and the objectives for Class IV are to provide for management activities that require major modification of the existing character of the landscape. The level of change to the characteristic landscape can be high. These management activities may dominate the view and be the major focus of viewer attention.

The types and degree of visual changes that would be caused by the Project are shown in a photographic simulation described below.

### *Potential Effects on Scenic Quality*

Effects to visual resources from the development of the Project will result in minor changes to the views in the immediate vicinity. The proposed Project will introduce new elements into the landscape, but will not appreciably alter the existing form, line, color, and texture which characterize the existing landscape. This is because of the significant amount of existing solar and electric infrastructure that occurs in the immediate area of Palomas / Hyder Road, the primary location from which viewers might see the Project (see **Figure E-1**).

The Project would include structures up to 100 feet tall between the Solar Site Substation and the Hoodoo Wash Substation located 3.5 miles south. These Project structures could be seen by viewers travelling along Palomas / Hyder Road but would be expected to be indistinguishable from all of the other existing transmission structures in the immediate area.

Areas within the Project substations would be artificially lighted at night as necessary to enhance the safety of Project personnel. Any night-lighting would be designed to meet the requirements of Yuma County.

The Federal Aviation Administration (FAA) requires that any permanent object that exceeds an overall height of 200 feet above ground level or exceeds any obstruction standard contained in FAR Part 77 (Special Federal Aviation Regulation No. 98 available at: [http://edocket.access.gpo.gov/cfr\\_2007/janqtr/pdf/14cfr77.1.pdf](http://edocket.access.gpo.gov/cfr_2007/janqtr/pdf/14cfr77.1.pdf)) be lighted with a flashing lighting system. Because the tallest structures associated with the Project would only be up to 150 feet tall and more than three nautical miles from the nearest airport (as per FAR Part 77), blinking safety lights would not be required.

### *Key Viewpoints*

Because of the relatively short length of the Gen-tie Line (3.5 miles) and its remote location, two key observation points (KOPs) were selected to illustrate a representative view of the Project. The location of the KOPs is depicted on **Figure E-2**. These KOPs provide a view from Palomas / Hyder Road, the primary location from which members of the public could potentially see the Project. KOP1 represents the view travelling westward on Palomas / Hyder Road just east of the location of the existing Hoodoo Wash Substation. KOP2 was selected as a second viewing point west of the Project from which individuals could see the Gen-tie Line when traveling east-bound on Palomas / Hyder Road.

**Figures E-3a** and **E-3b** show the existing conditions and photographic simulations of the proposed Project from the KOP1, location on Palomas / Hyder Road. KOP1 is approximately 0.2 miles east of the existing Hoodoo Wash Substation. This view represents the closest view from which a west-bound traveler on Palomas / Hyder Road could see the existing Hoodoo Wash Substation, proposed Step-Up Substation, and Gen-tie Line.

**Figures E-4a** and **E-4b** show the existing conditions and photographic simulation of the proposed Gen-tie Line from KOP2, a location on Palomas / Hyder Road approximately 0.6 miles west of the existing Hoodoo Wash Substation. This view represents a view from which an east-bound traveler on Palomas / Hyder Road could see the existing Hoodoo Wash Substation, potential Step-Up Substation, and Gen-tie Line.

Other existing land uses visible in these views are Palomas / Hyder Road and the abandoned railroad and associated berm in the foreground, the multiple existing transmission lines and the Hoodoo Wash Substation in the middleground, and distant mountains in the background. As depicted on the simulations, some of the view of the existing Hoodoo Wash Substation would be screened from view by the existing railroad berm. The taller components would be visible in

the foreground and middleground, and the Gen-tie Line would be visible in the middleground of the simulations, but difficult to distinguish from the other existing transmission structures and substations that dominate the view.

The presence of the Project on BLM-administered lands would be consistent with the visual objectives for the VRM Class IV designation for the Project area.

### ***CULTURAL RESOURCES***

The Project would cross about 3.5 miles of federal land managed by the BLM and would terminate on both ends at substations located on private lands. The Solar Site Substation would disturb up to 5 acres of private land that has for several decades undergone disturbance associated with ongoing agricultural activity on the White Wing Ranch. Based on current inventories, archaeological and historical overviews, and previous surveys in the area, the areas that would be affected by the proposed Project are expected to contain few, if any, significant prehistoric or historic cultural resources.

A Class I cultural resources survey was conducted wherein site and project files were checked at the Arizona State Museum (ASM) and the data received were examined to determine if previously recorded cultural resources were within the Project area and a one-mile buffer. The ASM records check revealed that eight (8) cultural resource surveys have been conducted in the area. One of these surveys (conducted on the Agua Caliente SEZ on BLM-administered lands included portions of the Project area. A copy of the Class I summary is included in **Appendix E-1**.

A Class III cultural resources survey was conducted on the Gen-tie Line route. The Project endpoints occur on previously disturbed land. The northern portion of the Gen-tie Line route was surveyed by the BLM as part of the analysis for the Agua Caliente SEZ and the southern portion was surveyed recently as part of this Project. The surveys identified no archaeological sites and a number of isolates within the proposed Gen-tie Line ROW. No buildings, structures, or districts were identified.

Consultation letters were sent to the State Historic Preservation Office (SHPO) and local Native American tribes along with the cultural report seeking comment. These letters are included in **Appendix E-2**.

### ***CONCLUSIONS***

The Project will cover a small area in a location where significant solar development and electrical infrastructure (transmission lines and substations) already exists and where future solar development is planned. Where the Project would be visible, it will be consistent with the other existing electric facilities in the area.

There are no known historic sites or structures or archaeological sites that would be affected by

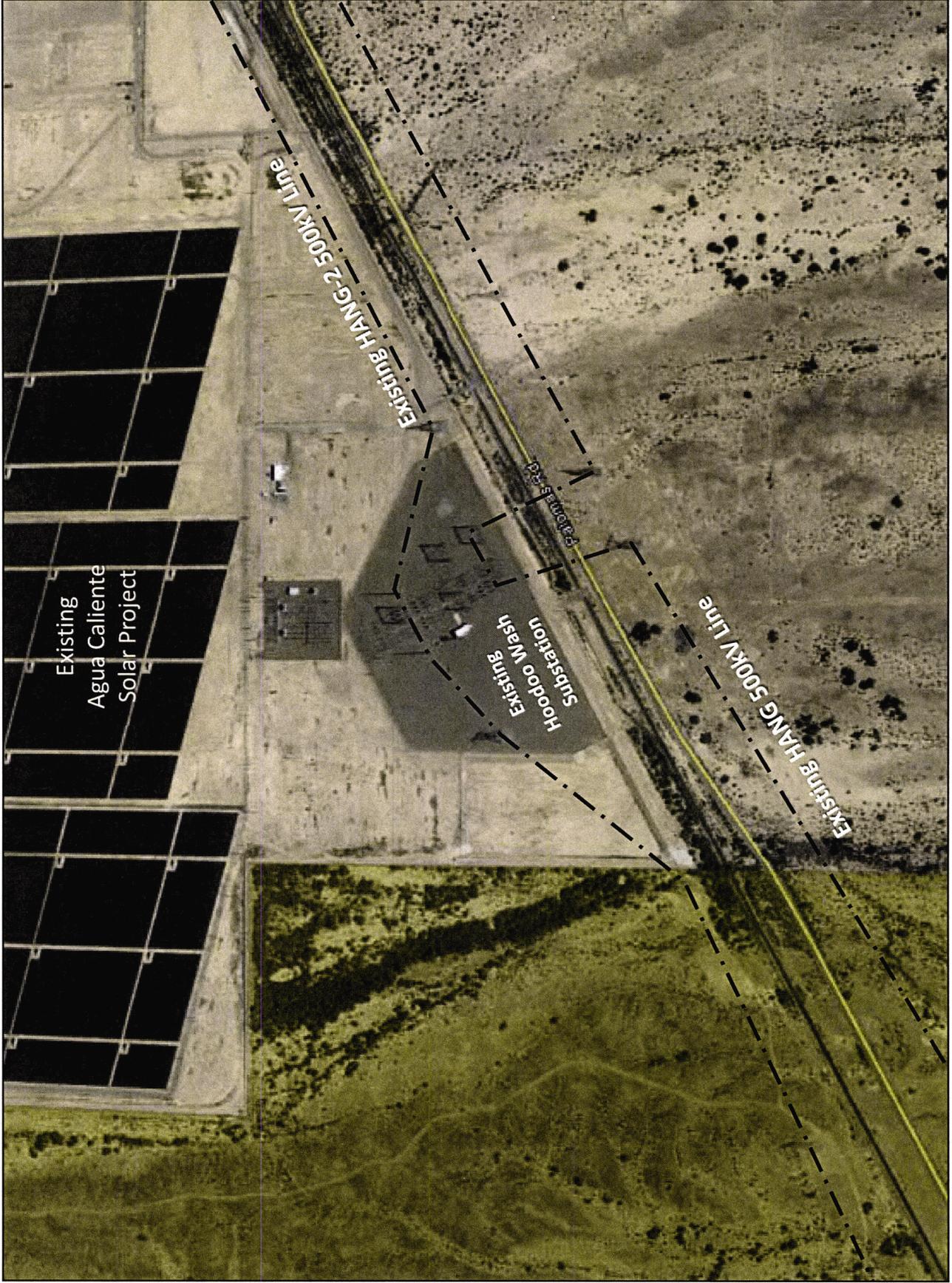
the proposed Project. The cultural resource surveys conducted for the Project indicate that the potential for archaeological resources to be present or affected would be low.

***REFERENCES***

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BLM. 2013. Record of Decision (ROD) for the Arizona Restoration Design Energy Project (RDEP). [Online] Located at: [http://www.blm.gov/az/st/en/prog/energy/arra\\_solar/docs.html](http://www.blm.gov/az/st/en/prog/energy/arra_solar/docs.html).

References for the cultural resources survey are included in the Cultural Resources Report.



Existing  
Agua Caliente  
Solar Project

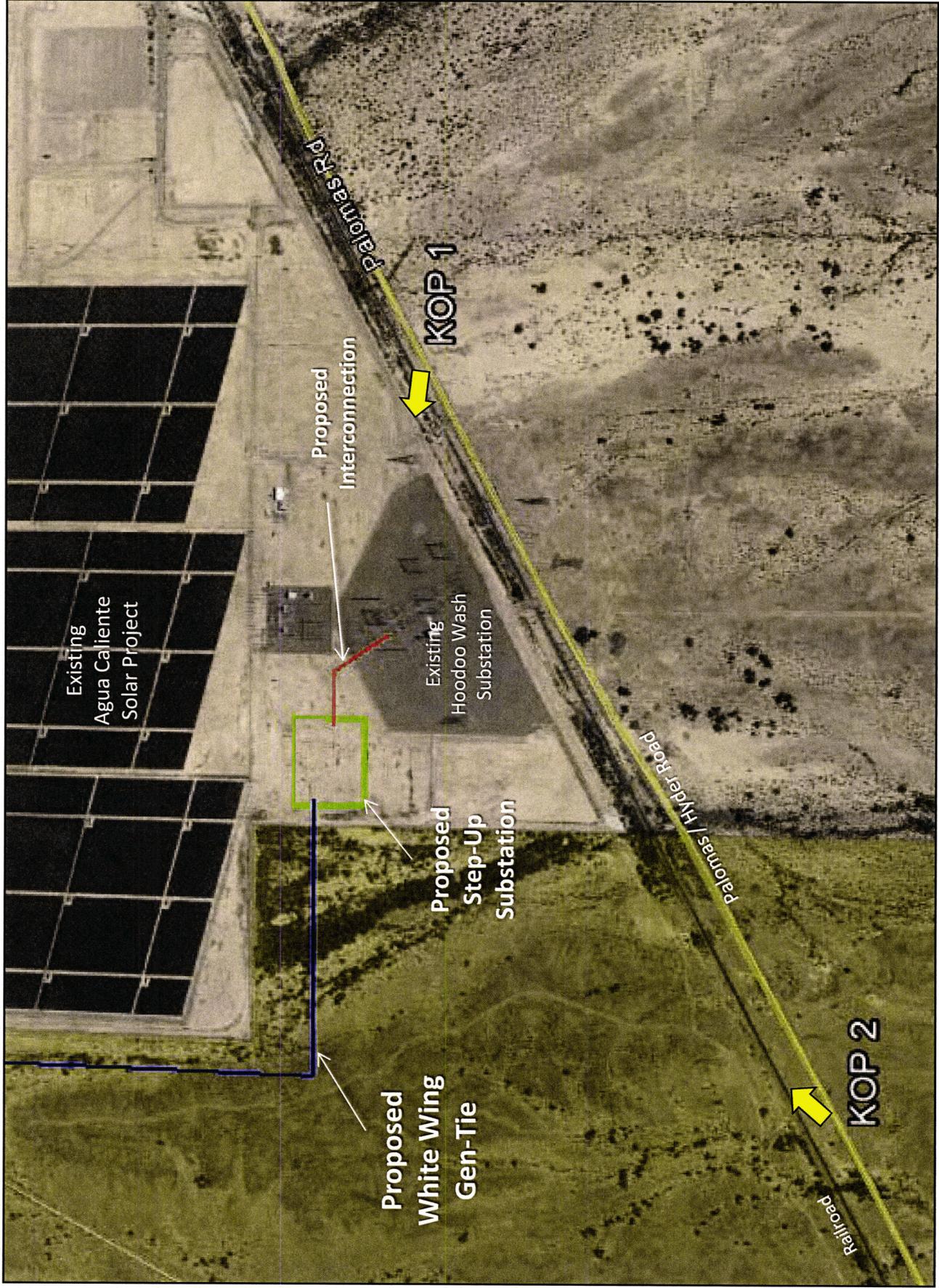
Existing HANG 2 500kV Line

Hoodoo Wash  
Existing  
Substation

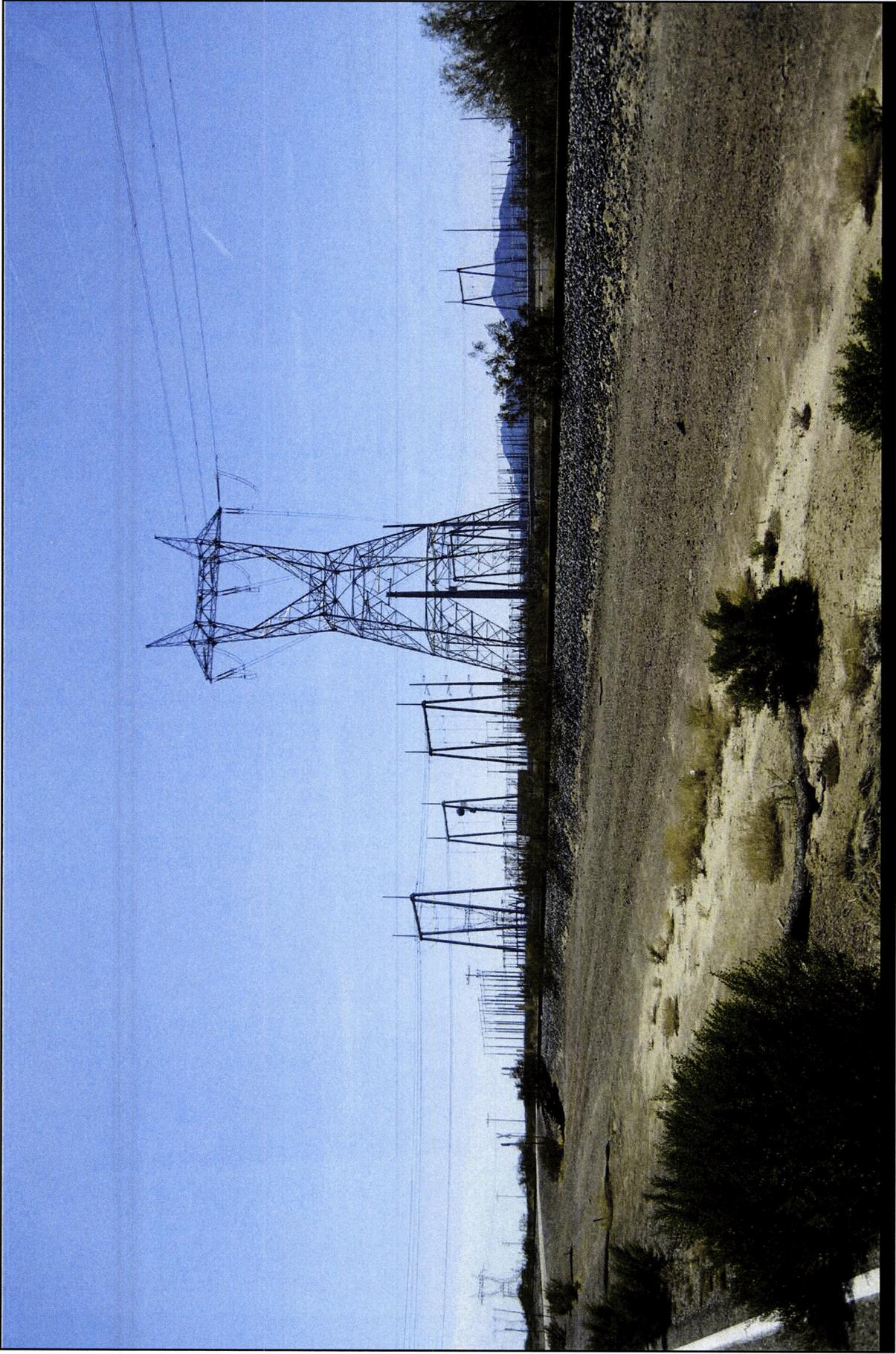
Existing HANG 500kV Line



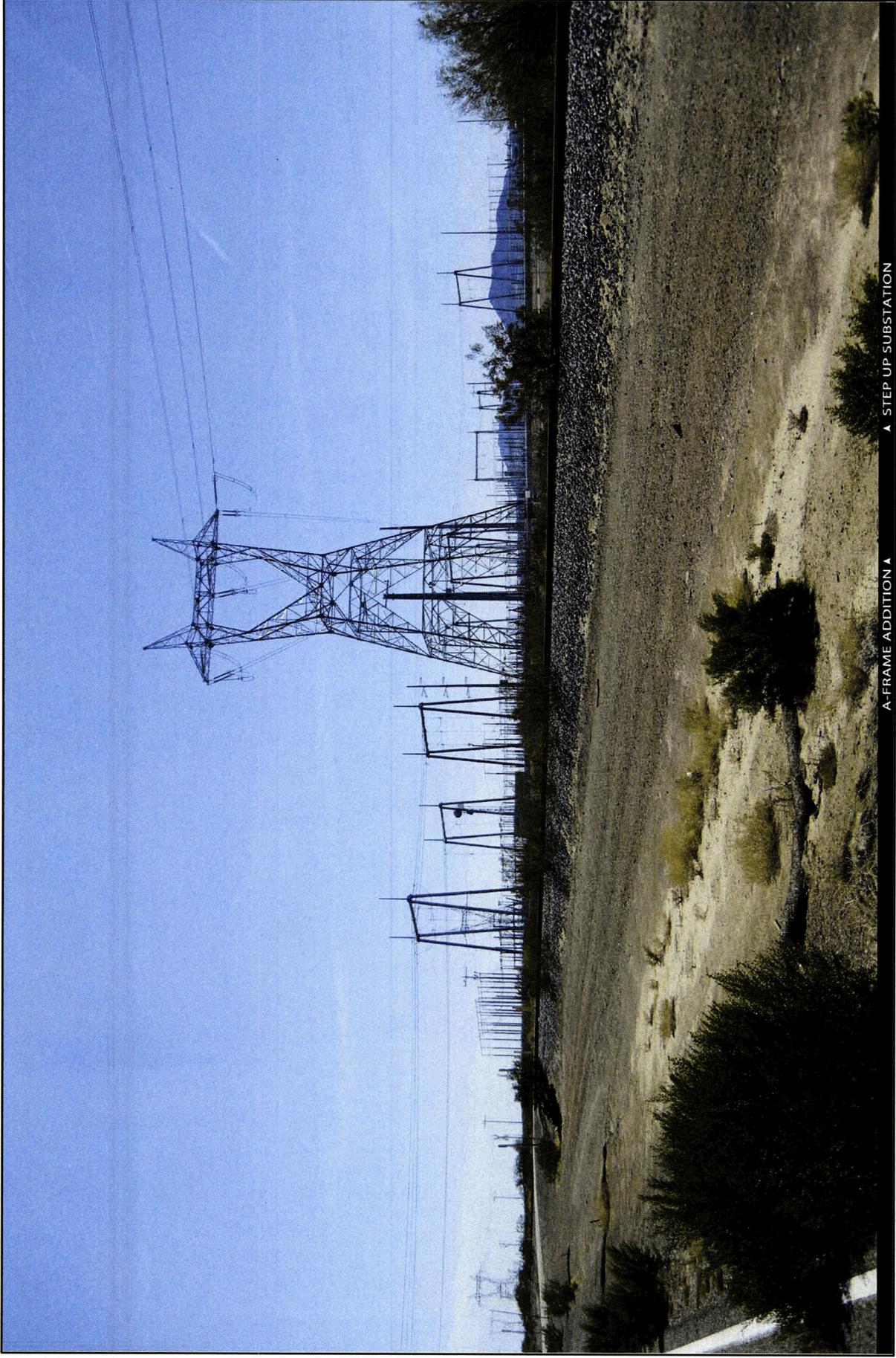
Figure E-1  
Existing Electrical Infrastructure in the Area



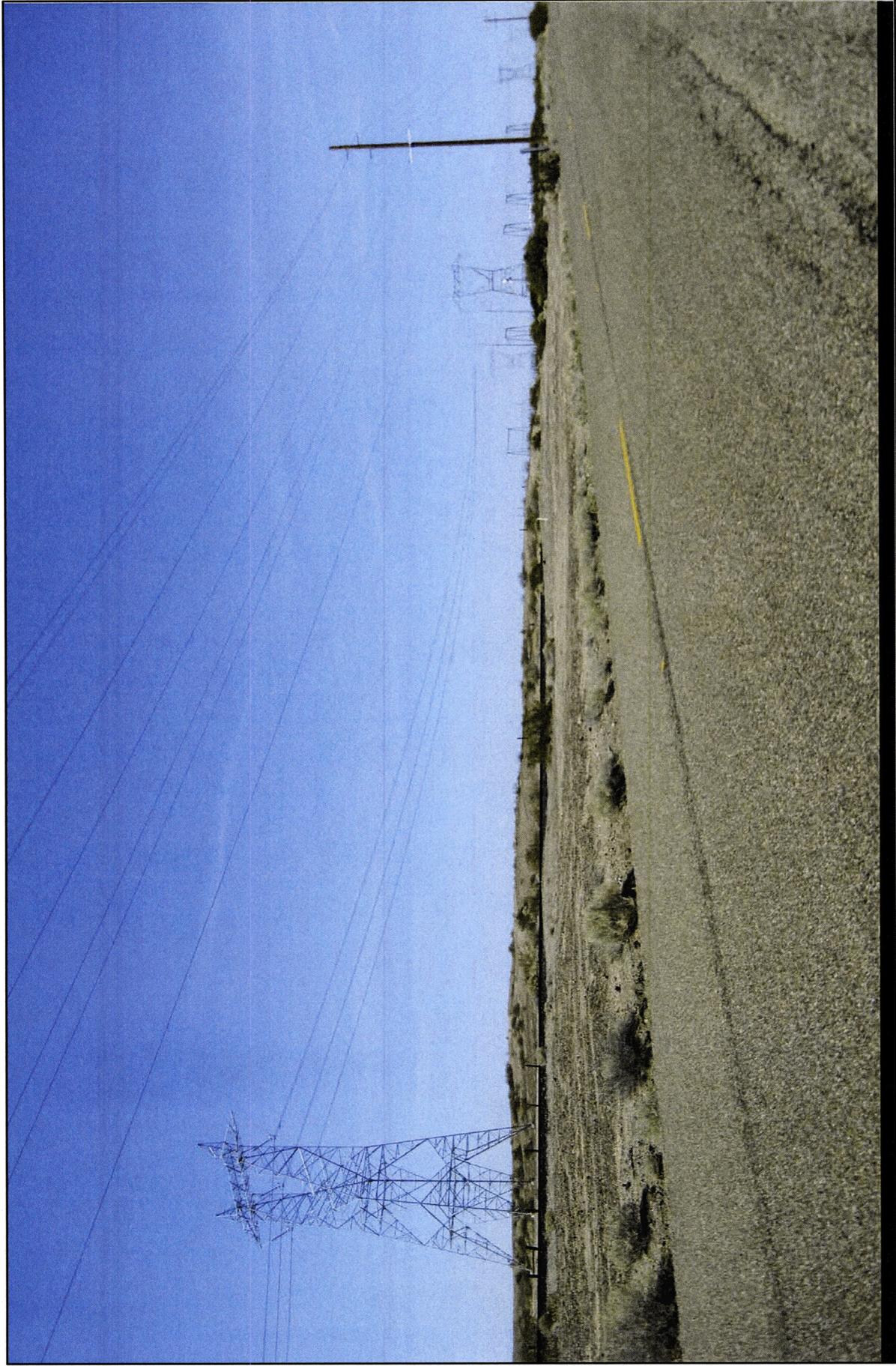
**Figure E-2**  
**Location of Key Observation Points (KOPs)**



**Figure E-3a**  
**Existing View from KOP 1**  
Looking West-Northwest from Palomas / Hyder Road



**Figure E-3b**  
**Visual Simulation from KOP 1**  
Looking West-Northwest from Palomas / Hyder Road



**Figure E-4a**  
**Existing View from KOP 2**  
Looking Northeast from Palomas / Hyder Road



▲ A-FRAME ADDITION

▲ STEP UP SUBSTATION

▲ 2

**Figure E-4b**  
**Visual Simulation from KOP 2**  
Looking Northeast from Palomas / Hyder Road

**Appendix E-1**  
**Class I Cultural Resource Summary**

# CLASS 1 CULTURAL RESOURCE SURVEY WHITE WING GEN-TIE PROJECT

## CULTURE HISTORY

For the Paleoindian and Archaic periods this overview will cover western and southwestern Arizona. For the Ceramic and Historic periods, the scale will focus on the Gila River corridor and adjacent areas.

**Paleoindian and Archaic:** Faught and Freeman (1998) have reviewed the issue of pre-Clovis/pre-projectile point occupation in the Southwest. The arguments by Julian Hayden are most relevant to the project area because they involve interpretation of archaeological remains specific to the Sonoran Desert. Using observations and terminology developed by Malcolm Rogers, Hayden proposed a cultural sequence based upon degree of desert varnish, relationship to desert pavement, and to some extent, tool form (Hayden 1976: 277-283). He thought that the artifacts with the heaviest varnish on or in desert pavement are from the period prior to 18,000 BP (Malpais Stage) and that the lighter varnished tools laying on top of desert pavement are pre-8000 BP (San Dieguito I). These dates come mostly from shell found on desert pavement sites or from correlation with the dating of Late Pleistocene climatic events. A variety of problems can be found with the proposed dating of the Malpais and early San Dieguito but the pattern observed does appear to be real (Faught and Freeman 1998:36-37; Heilen 2004).

Evidence of Paleoindian (11600-10200 BP) occupation in southwestern Arizona is negligible, a major difference from southeastern Arizona. Complete Clovis points were found in a multicomponent site in Organ Pipe Cactus National Monument (Huckell 1982:19) and another south of Gila Bend (Faught and Freeman 1998:44). As noted earlier, the early end of the San Dieguito Complex is thought by Hayden to substantially precede Paleoindian and end in the Early Archaic (10700-7000 BP) but most archaeologists view this complex as being part of the Early Archaic. It appears that this complex is the principal Early Archaic one found in southwestern Arizona (Faught and Freeman 1998: Figure 4.2).

Middle Archaic (8000-4000 BP) seems to be poorly represented in the area (Faught and Freeman 1998: 68). Late Archaic sites, however, are abundant (Faught and Freeman 1998:Figure 6.1) with San Pedro or Elko Corner-notched points being the primary evidence. Shackley (1996:429) suggests that the presence of these two projectile point forms in the Tank Mountains about 17 miles northwest of the project area may indicate the existence of two cultural groups. San Pedro points, as define of the San Pedro Phase in the Tucson Basin sequence, begin at 1200 B. C. (Mabry 1997: Table 1.3) and persist into the Agua Caliente phase (A. D. 150-650) of the Early Ceramic period (Sliva 1999:340). Also present in the Tank Mountains is a small obsidian source that was used mostly in the Late Archaic (Shackley 1991:20).

**Ceramic Period:** In the ceramic period of Southwestern Arizona it is necessary to differentiate between Hohokam occupation which is best known in the Gila Bend/Painted Rocks area and Patayan occupation, or more specifically, Lowland Patayan, identified by having mostly Lower Colorado Buff Ware pottery. The central and western Papagueria, whose northern boundary is

the Gila River was occupied by Hohokam groups or ancestral O'odham groups with varying connections to the Hohokam (Doyel 2000). The area north of the Gila River is generally classified as western Arizona, a large area with extremely spotty archaeological coverage.

The ceramic period chronology in the central and western Papagueria, that area south of the Gila River and west of Gila Bend, is based mostly on the association of trade wares coming from the Tucson and Phoenix basins. Ceramics first appear in limited numbers in the area around A.D. 400 - 600 (Ahlstrom 2008: 486), which would represent the Pioneer period of the Hohokam cultural sequence. These sites may represent limited use of the area by Hohokam groups or by groups having access to Hohokam pottery through trade (Ahlstrom et al. 2001:55, 57).

The early Colonial period (Gila Butte phase of the Phoenix Basin Hohokam cultural sequence) is represented by numerous communities along the Gila River having canals and one or more ball courts (Doyel 2000:105-106), including the southwestern-most ball court in the Hohokam system. The largest site in the area, the Gila Bend (Gatlin) site, was occupied by the Santa Cruz phase (875-975 A.D.) and may have lasted to 1075 A.D. or later (Santan phase). By the late Colonial period and into the Sedentary period there was an expansion of Hohokam sites along the Gila River as well as to the south.

Classic period sites in the Gila Bend area are less complex than those found in the Phoenix Basin and suggest formation into smaller and more dispersed settlements. Hilltop villages are also present, suggesting the possibility of hostilities (Doyel 2000:127).

As noted above, the term Patayan is used for groups in western Arizona along and to the north of the Gila River associated with Lower Colorado Buff Ware. The types in this ware were originally defined by Malcolm Rogers based upon vessel form and surface treatment but revised by Albert Schroeder and arranged into series based upon temper. Following the lead of Rogers, Waters (1982) discusses the history of the ware and outlines the type sequence - Patayan I (A. D. 700-1000), Patayan II (1000-1500) and Patayan III (post1500).

In Vivian's survey on the north side of the river west of the Agua Caliente Mountains, pottery sites contain almost exclusively Lower Colorado Buff Ware (Vivian 1965:134, 138). These sites were predominantly near the Colorado River above the bottomlands. No structures were observed on these sites, but fire-cracked rock was common and the chipped stone assemblage included choppers and occasional projectile points or scrapers. In alluvial situations in Western Papagueria, fire-cracked cobbles are suggested to primarily relate to seed parching (Vanderpot et al. 2008:200). Hammerstones, unshaped manos, and metate fragments rounded out the sparse tool assemblage (Vivian 1965:137). Trails, either with or without pottery, are present in areas having desert pavement. Breternitz (1957:3) noted a trail site near the project area at "Big Ethel Wash" that had Wingfield Plain sherds.

Along the Gila River, larger Patayan farming villages probably existed, but flooding may have removed or covered them (McGuire 1982:219-220). Sparse Patayan populations in the interior basins would have focused upon hunting and gathering with some "casual" agriculture in ak-chin situations, similar to that suggested for the Western Papagueria (Bruder and Hill 2008:227-228).

By the historic period the lower Gila had at different times Yuman, Halchidhoma, and Piman speaking groups (Doyel 2000:105; Ezell 1963; Schroeder 1961:25). At contact the project area is on the southern boundary of the Western Yavapai (Tolkapaya) (Gifford 1938: Map 1). Gifford (1938:251) states that settlement did not occur on the Gila River until late in the 19<sup>th</sup> century because of the proximity of the Maricopa and O'odham.

**American Period:** The nearby Palomas Mountains never had significant mining and the Tank Mountains to the northwest had limited exploration and some placer activity (Wilson 1933: 123-127, 129-130). According to Vivian (1965:108) agricultural development began in this area of the river in 1885 with a post office present by 1889.

In 1892, most of the Tolkepayas incarcerated at San Carlos left to work for American farmers at Palomas, Agua Caliente, and elsewhere along the lower Gila (Braatz 2003:211). Vivian (1965: 131-133) recorded seven sites in the Palomas area that he thought were Yavapai. Parker Series Lower Colorado Buff Ware, presumably obtained by trade with the Mohave, was the only Native American pottery present at these sites (Vivian 1965:133, 144). The Yavapai apparently were gone from the Palomas area by the 1920s (Vivian 1965: 131).

Irrigation at Palomas and elsewhere on the lower Gila was short-lived. The catastrophic floods of 1905 wiped out the heads of the canals. In 1920, Palomas had 46 residents, mostly "Mexicans" [sic], who made a living from limited farming and cattle ranching (Ross 1923:160). The post office at Palomas closed in 1938. In World War II, the area had two military posts as part of desert training - Camp Horn (also called Fort Horn) and Camp Hyder.

The Gila River corridor was a major east-west route across southern Arizona with the Gila Trail being a major route for the 49ers, followed by the Butterfield Overland Mail stage line in 1857, the Southern Pacific Railroad in 1877, US Highway 80 in 1921, and Interstate 8 in 1973, all located south of the Gila River (Kupel 1999). North of the river, a variety of apparently minor roads ran along the river and north-south from the river (Ross 1923: Plate III). In 1926, the Southern Pacific Railroad connected Phoenix with Yuma via the Phoenix Cutoff that runs north of the Gila until crossing the river above Wellton (Janus Associates 1989:13-14).

**The White Wing Ranch:** The current project area is located directly adjacent to the property that was previously occupied by the White Wing Ranch. This ranch was established in the 1950s and had been in continuous production until around 2010. The most recent crops grown there were cantaloupe, honey dew melons, and alfalfa, as well as citrus. Several buildings were present in 2010 that represented the earliest structures associated with the ranch (*see* Moses et al. 2010). The White Wing Ranch was one of several large commercial agricultural farms in the region that represented one of the major economic drivers of the area. This property was largely destroyed when the Agua Caliente Solar Project was built in 2012.

## **CLASS I-PREVIOUS RECORDS REVIEW**

Cultural resource records within a one-mile radius were reviewed at on-line database AZSITE (AZSITE 2016). The BLM Yuma Field Office was also contacted regarding cultural resources in the area. In addition, the National Register of Historic Places (NRHP) website was reviewed

(NRHP 2016). Records were checked to determine whether any archaeological sites or historic properties had been recorded and the extent of archaeological work within one mile, with special attention given to any historic properties/archaeological sites located within the APE.

Seven previous archaeological surveys and three archaeological sites have been recorded within one mile (Tables 1-2, Appendix A). No portion of the APE had been previously surveyed and no archaeological sites had been recorded within the current APE.

After consultation with BLM archaeologists Matthew Basham and Tom Jones, it is unclear if any portions of the adjacent BLM Agua Caliente Solar Energy Zone (SEZ) were subject to a Class III survey. BLM records show that the area was part of a larger EIS process but no additional information is available concerning cultural resource assessments (Appendix C). An EIS was prepared for the Arizona Restoration Design Energy project (RDEP) for a 2,560-acre parcel located near the APE. Work includes a Culture History Background of Arizona and Affected Environment and Cultural Resources as it relates to potential future development (BLM 2012). Mr. Basham was not aware of any other Class III surveys within the project area (Matthew Basham, personal communication dated April 26<sup>th</sup>, 2016).

<b>Project Number</b>	<b>Performing Institution</b>	<b>Description</b>
1999-587.ASM	SWCA	PBNS Level 3 Fiber Optic Line, 641 acres, 14 new sites recorded (Doak 1999).
14.205.SHPO	SHPO	Cultural Resource Investigations for the Yuma 500kV Transmission Line, APS. No associated reference.
1955-3.ASM	Arizona State Museum	Southern Pacific Pipeline Survey, 15 new sites recorded (Komerska and Breternitz 1955).
1981-162.ASM	Archaeological Consulting Services	Yuma 500 kV Transmission Line, 119.8 miles of 200-foot-wide right of way, 21 sites recorded (Effland and Green 1981).
2011-268.ASM	William Self Associates	LS114 Cultural Resources Survey on BLM Land, 191.6 acres, no new sites recorded (Smith and Boley 2011).
2006-335.ASM	Environmental Planning Group	Palo Verde Hub to North Gila 500kV, 125-mile-long survey, 6 new sites recorded (Rowe 2007).
2009-046-ANT	Antigua Archaeology	Agua Caliente Class III, 2,400 acres, 1 new site recorded (Moses et al. 2010).

Site Number	Site Type, Cultural and Temporal Affiliation, and Location	NRHP Eligibility
AZ Y:2:29(ASM)	Historic remnants of Horn Railroad Station (Rowe 2007).	Eligible per recorder in 2006, not formally evaluated.
AZ T:10:84(ASM)	Southern Pacific Railroad: Wellton-Phoenix-Eloy Spur (e.g. Moses et al 2010).	Eligible individually in 2001-2009 under criterion a.
AZ Y:2:30(ASM)	The White Wing Ranch and associated buildings (Moses et al. 2010).	Eligible per recorder under criterion a in 2010, not formally evaluated.

Previously-Recorded Archaeological Sites within One Mile

GLO Map 3814, officially filed in June 1877, shows no historic-period properties or roads near the APE (GLO 1877). GLO Map 3813, officially filed in November 1936, shows the Southern Pacific Railroad recorded as AZ T:10:84(ASM) and an unnamed road running northwest across Section 33 and then north across Section 28, approximately 400 meters west of the project area (GLO 1936, Figure 4).

**Appendix E-2**  
**Cultural Resource Consultation Letters**

In Reply Refer To:  
AZA-36884  
2800(C020)

CERTIFIED MAIL – RETURN RECEIPT REQUESTED, 7008 1140 0002 7302 «cert»

«name», «title»  
«tribe»  
«add1»  
«CSZ»

Dear «Addressline»:

The Bureau of Land Management (BLM), Yuma Field Office (YFO), would like to initiate consultation regarding a proposal by White Wing Ranch North, LLC to construct a new gen-tie line approximately 3.5 miles to connect the proposed White Wing Solar Project to the regional electric grid. The gen-tie (electric collector line) is proposed to be either 500kV, 230kV, or 115kV voltage. This line would connect the proposed solar project to the existing Hoodoo Wash Substation which is next to Hyder Valley Road and the existing railroad track. The purpose of this letter is to invite you to comment on the proposed action in accordance with the National Environmental Policy Act (NEPA) and the National Historic Preservation Act (NHPA), as amended, to ensure that all of your community's concerns are carefully considered.

The proposed project area is located directly adjacent to and immediately west and south of the existing Agua Caliente Solar Project which is eight miles north of Dateland, Yuma County, Arizona. The majority of the proposed project area is located within the recently-designated Agua Caliente Solar Energy Zone (SEZ). The portion of the project that does not fall within the SEZ is wholly located within a BLM Designated Utility Corridor that runs adjacent to Hyder Road. The legal description is Sections 16, 17, 20, 28, 29, and 33, Township 5 South, Range 12 West (G&SRB&M) (Aztec NW, Ariz. 7.5' USGS Quadrangle map). Please see the enclosed project map for additional information on the project location.

An Environmental Assessment (EA) is being prepared to address and evaluate potential effects of the project on the environment. To help in preparation of the EA and to comply with Section 106 of the NHPA, the BLM typically requires both a Class I review of previous cultural resource inventories in the Area of Potential Effect (APE) for the undertaking and a Class III cultural resource inventory of the proposed project area. The entire Agua Caliente SEZ was previously-surveyed in 2014. Several tribes participated in the review and the report is now with SHPO. Two historic sites were identified within the APE during that survey, but both were

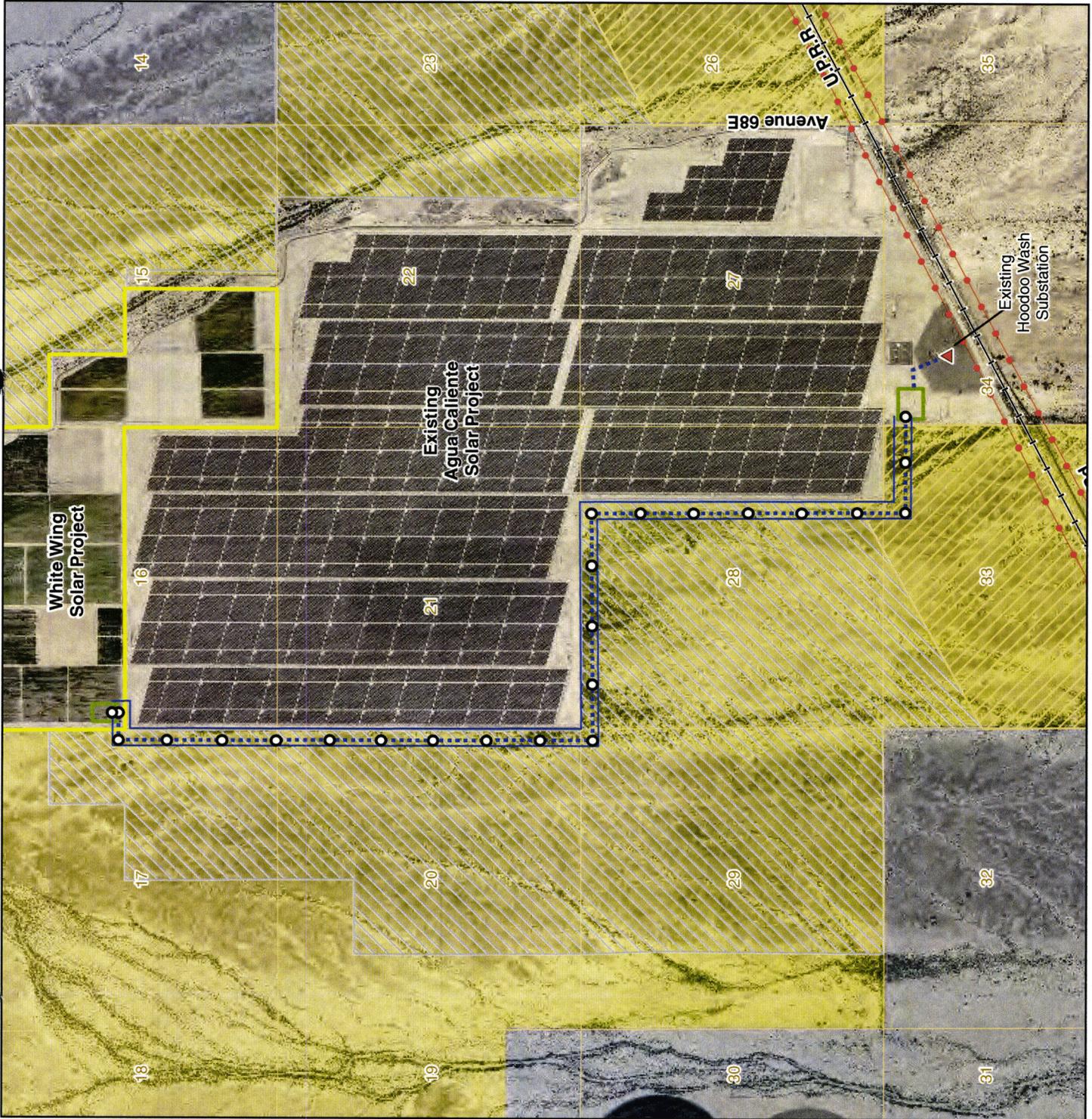
recommended as not eligible for the National Register of Historic Places. The portion of the project not located within the SEZ was surveyed by Antigua Archaeology as part of this project. The Class I review conducted by Antigua revealed that eight archaeological surveys (including Logan Simpson's) have been conducted and three archaeological sites have been recorded within a 1-mile radius of the project. Their Class III inventory did not identify any additional archaeological sites within the proposed project area and only five isolated artifacts (all historic). A copy of this report is available upon request.

As mentioned above, the BLM wishes to obtain your comments to ensure that your community's concerns are carefully considered. In particular, we hope that you will let us know if there are any resources or places of traditional cultural or religious importance to members of your community that might be affected by this proposal. If there are other tribal members you feel should be included by BLM in consultation, please provide us with their names, addresses, and telephone numbers so we can contact them directly. Thank you for consideration of this request.

If you would like to arrange a meeting, a project area visit, or would like additional information, please contact the Yuma Field Office Assistant Field Manager, Thomas Jones, by mail, telephone (928-317-3200), or email at [tkjones@blm.gov](mailto:tkjones@blm.gov).

Sincerely,

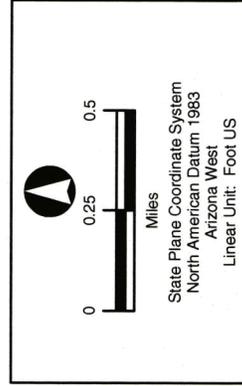
John MacDonald  
Field Manager



### Legend

- ▲ Existing Substation
- Structure Location
- ⋯ Proposed Gen-Tie Line Route
- Existing 500 kV Transmission Line
- Railroad
- Proposed White Wing Solar Project Location
- Proposed Gen-Tie Line ROW
- Proposed Substation
- ▨ Agua Caliente SEZ
- ▨ BLM Designated Utility Corridor
- ▨ Township / Range Boundary
- ▨ Section Boundary
- Jurisdictional Land Ownership
- Bureau of Land Management Land
- State Land

Figure 4-1



## WHITE WING GEN-TIE PROJECT

### Proposed Gen-Tie Route

Map Extent: Yuma County, Arizona

Date: 06.27.16

Author: sjk

**WHITE WING GEN-TIE PROJECT**  
**Bureau of Land Management Yuma Field Office**  
**Tribal Distribution List**

\* = Recipient of NEPA and Archaeology Report

TRIBAL CHAIRPERSON	CC RECIPIENTS
Louis J. Manuel Jr., Chairman Ak-Chin Indian Community	Caroline Antone, Cultural Resource Manager *
Edward Smith, Chairman Chemehuevi Indian Tribe	Ronald Escobar, Secretary-Treasurer Dennis Fagundes, Water Quality Technician Tom Pradetto, Director Environmental Programs * Jay Cravath, Cultural Director
Sherry Cordova, Chairperson Cocopah Indian Tribe	Jill McCormick, Cultural Resources Manager *
Dennis Patch, Chairman Colorado River Indian Tribes	Wilene Fisher-Holt, CRIT Museum Director
Timothy Williams, Chairman Fort Mojave Indian Tribe	Linda Otero, Council Member and Aha Makav Cultural Society Director *
Keeny Escalanti, Sr., President Fort Yuma Quechan Tribe	Arlene Kingery, Historic Preservation Officer *
Gregory Mendoza, Governor Gila River Indian Community	Barnaby Lewis, Tribal Historic Preservation Officer *
Herman G. Honanie, Chairman The Hopi Tribe	Leigh Kuwanwisiwma, Cultural Preservation Office Director *
Sherry J. Counts, Chairwoman Hualapai Tribe	Loretta Jackson, Historic Preservation Officer *
Val Panteah, Governor Pueblo of Zuni	Kurt Dongoske, Zuni Heritage and Historic Preservation Office Acting Director *
Delbert Ray, President Salt River Pima-Maricopa Indian Community	Shane Anton, Cultural Preservation Programs Manager * Hans Klose, Community Development Director Kelly Washington, Cultural Resources Department Director
Ned Norris Jr., Chairman Tohono O'odham Tribal Nation	Frances Conde, Cultural Preservation Committee Chair Lorraine Eiler, Natural Resources Committee Chair Joseph Joaquin, Cultural Affairs Program Peter Steere, Cultural Affairs Program * Gary Antonio, Hia-Ced O'odham Program Manager
Thomas Beauty, Chairman Yavapai-Apache Nation	Chris Coder, Tribal Archaeologist *
Ernest Jones Sr., President Yavapai-Prescott Indian Tribe	Greg Glassco, Cultural Resource Program Director * Linda Ogo, Culture Research Department Director

name	title	Addressline	tribe	addl	c/s/z	cert
Louis J. Manuel Jr.	Chairman	Chairman Manuel	Ak-Chin Indian Community	42507 West Peters and Nall Road	Maricopa, AZ 85239-3940	
Edward Smith	Chairman	Chairman Smith	Chemehuevi Indian Tribe	PO Box 1976	Havasu Lake, CA 92363	
Sherry Cordova	Chairperson	Chairperson Cordova	Cocopah Indian Tribe	14515 S. Veterans Drive	Somerton, AZ 85350	
Dennis Patch	Chairman	Chairman Patch	Colorado River Indian Tribes	26600 Mohave Road	Parker, AZ 85344	
Timothy Williams	Chairman	Chairman Williams	Fort Mojave Indian Tribe	500 Merriman Avenue	Needles, CA 92363	
Keeny Escalanti, Sr.	President	President Escalanti	Fort Yuma Quechan Tribe	PO Box 1899	Yuma, AZ 85366-1899	
Gregory Mendoza	Governor	Governor Mendoza	Gila River Indian Community	PO Box 97	Sacaton, AZ 85247	
Herman G. Honanie	Chairman	Chairman Honanie	The Hopi Tribe	PO Box 123	Kykotsmovi, AZ 86039	
Sherry J. Counts	Chairwoman	Chairwoman Counts	Hualapai Tribe	PO Box 179	Peach Springs, AZ 86434-0179	
Val Panteah	Governor	Governor Panteah	Pueblo of Zuni	1203-B State Highway 53 PO Box 339	Zuni, NM 87327	
Delbert Ray	President	President Ray	Salt River Pima-Maricopa Indian Community	10005 East Osborn Road	Scottsdale, AZ 85256	
Ned Norris Jr.	Chairman	Chairman Norris	Tohono O'odham Tribal Nation	PO Box 837	Sells, AZ 85634	
Thomas Beauty	Chairman	Chairman Beauty	Yavapai-Apache Nation	2400 West Datsi Street	Camp Verde, AZ 86322	
Ernest Jones Sr.	President	President Jones	Yavapai-PreScott Indian Tribe	530 East Merritt Street	Prescott, AZ 86301-2038	

Exhibit

F

# EXHIBIT F

## RECREATIONAL PURPOSES / ASPECTS

---

As stated in the Arizona Administrative Code, Title 14, Chapter 3, Article 2:

*State the extent, if any, the proposed site or route will be available to the public for recreational purposes, consistent with safety considerations and regulations and attach any plans the applicant may have concerning the development of the recreational aspects of the proposed site or route.*

### ***INTRODUCTION***

The Project is located almost entirely on federal lands managed by the BLM in an unincorporated area of eastern Yuma County. There is existing solar and electrical infrastructure, including substations and transmission lines, in the immediate vicinity of the Project. The federal lands that the Project would cross are designated for solar generation and linear utilities by the applicable BLM management plans / decisions.

The Applicant does not plan to make the lands covered by the Project available for recreational uses. Nearby private lands are likewise not available for recreation. The federal lands where the Project would be located could be made temporarily available by the BLM for recreation, but long-term plans for these lands would be for solar and utility uses.

### ***EXISTING CONDITIONS***

The federal lands managed by the BLM where the Project would be located are within the Dispersed Use Recreation Management Zone (RMZ). This RMZ is managed to provide undeveloped and wildlife-based recreation opportunities through motorized and non-motorized means. It provides OHV riding, hiking, and wildlife and wildflower viewing opportunities, and is also part of AGFD Game Management Unit 41.

Currently, there are no existing or planned designated recreational facilities or areas on private, state, or federal lands in the immediate vicinity of the Project.

### ***POTENTIAL EFFECTS***

There are no existing or planned recreational facilities within the nearby area. The Project would not be expected to conflict with dispersed recreation on the BLM-administered land crossed by the Gen-tie Line if those uses were to continue. Therefore, no recreational impacts are anticipated to result from the Project.

***REFERENCES***

Bureau of Land Management (BLM). 2010. Yuma Field Office Record of Decision and Approved Resource Management Plan (Yuma RMP). [Online] Located at: [http://www.blm.gov/az/st/en/info/nepa/environmental\\_library/arizona\\_resource\\_management/YFO/YFO-ROD.html](http://www.blm.gov/az/st/en/info/nepa/environmental_library/arizona_resource_management/YFO/YFO-ROD.html). Accessed March, 2016.

County of, Yuma. 2020 Comprehensive Plan Adopted in 2012, and updated in 2015. [Online] Located at: <http://www.yumacountyaz.gov/departments-and-services/development-services/laws-guidelines/2020-comprehensive-plan> Accessed May, 2016.

**Exhibit**

**G**

# EXHIBIT G

## CONCEPTS OF TYPICAL FACILITIES

---

As stated in the Arizona Administrative Code, Title 14, Chapter 3, Article 2:

*“Attach any artist's or architect's conception of the proposed plant or transmission line structures and switchyards, which applicant believes may be informative to the Committee.”*

The following drawings are included:

**Exhibit G-1**, Transmission Line Structure Types

**Exhibit G-2**, Plan and Profile of Proposed Gen-tie

**Exhibit G-3**, Solar Site Substation General Arrangement

**Exhibit G-4**, Step-up Substation General Arrangement

**Exhibit G-5**, Typical A-Frame Structure located within Substations



















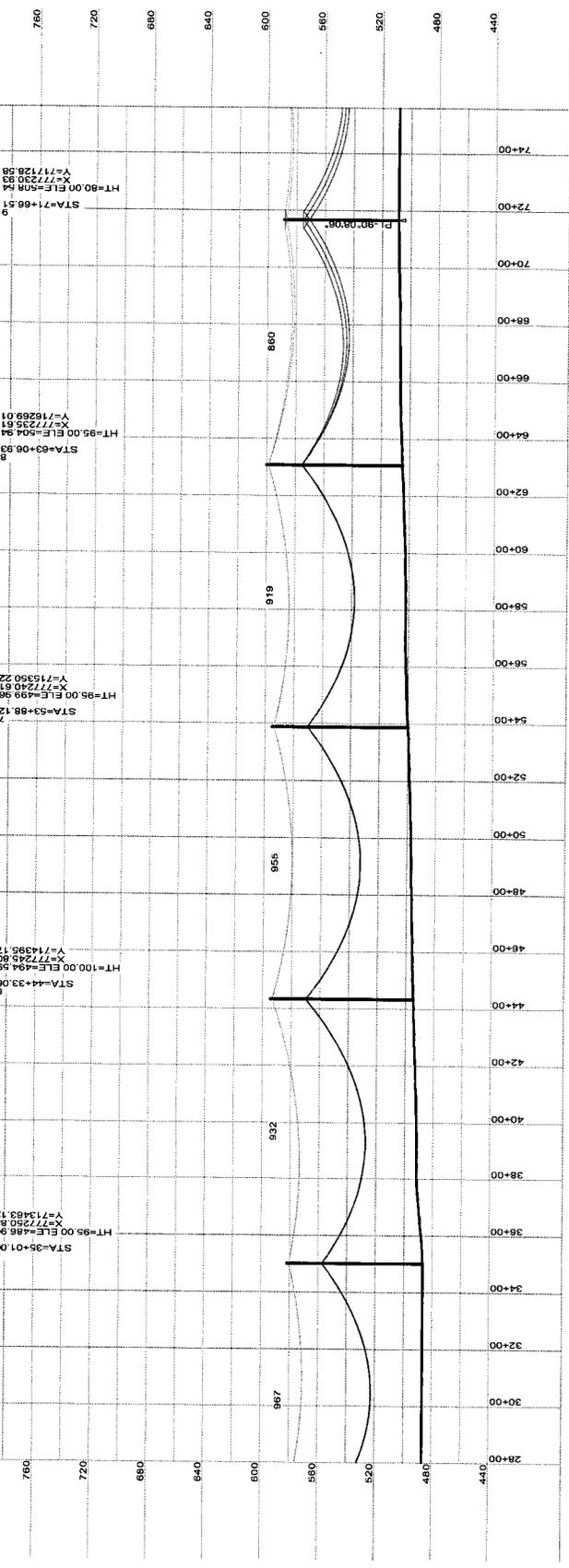


Figure C-2

NO.	DATE	DESCRIPTION	BY	CHKD
D	07-11-2018	REVISED BY LOCATION	CS	
C	06-29-2018	UNLIMITED PROJECT TITLE	CS	
B	06-18-2018	UNLIMITED PROJECT TITLE	CS	
A	06-18-2018	UNLIMITED PROJECT TITLE	CS	
		DESIGNED FOR REVIEW	CS	
		DESIGNED FOR REVIEW	CS	
		DESIGNED FOR REVIEW	CS	
		DESIGNED FOR REVIEW	CS	
		DESIGNED FOR REVIEW	CS	
		DESIGNED FOR REVIEW	CS	

PROJECT NO.	PROJECT CODE	PROJECT NAME	PROJECT SCALE
		PT_500 KV	D

PROJECT TITLE	PROJECT
WHITE WING RANCH SOLAR PROJECT 500 KV	ARIZONA, USA

PROJ. NAME	PROJ. NUMBER	OR BY NAME	SCALE
			AS NOTED
DRAWN FOR	DRAWING NO.	REV.	
PROJECT ENGINEER			

FIRST SOLAR  
 1000 W. WASHINGTON ST. SUITE 100  
 PHOENIX, ARIZONA 85001  
 WWW.FIRSTSOLAR.COM

200.0 FT. HORIZ. SCALE  
40.0 FT. VERT. SCALE

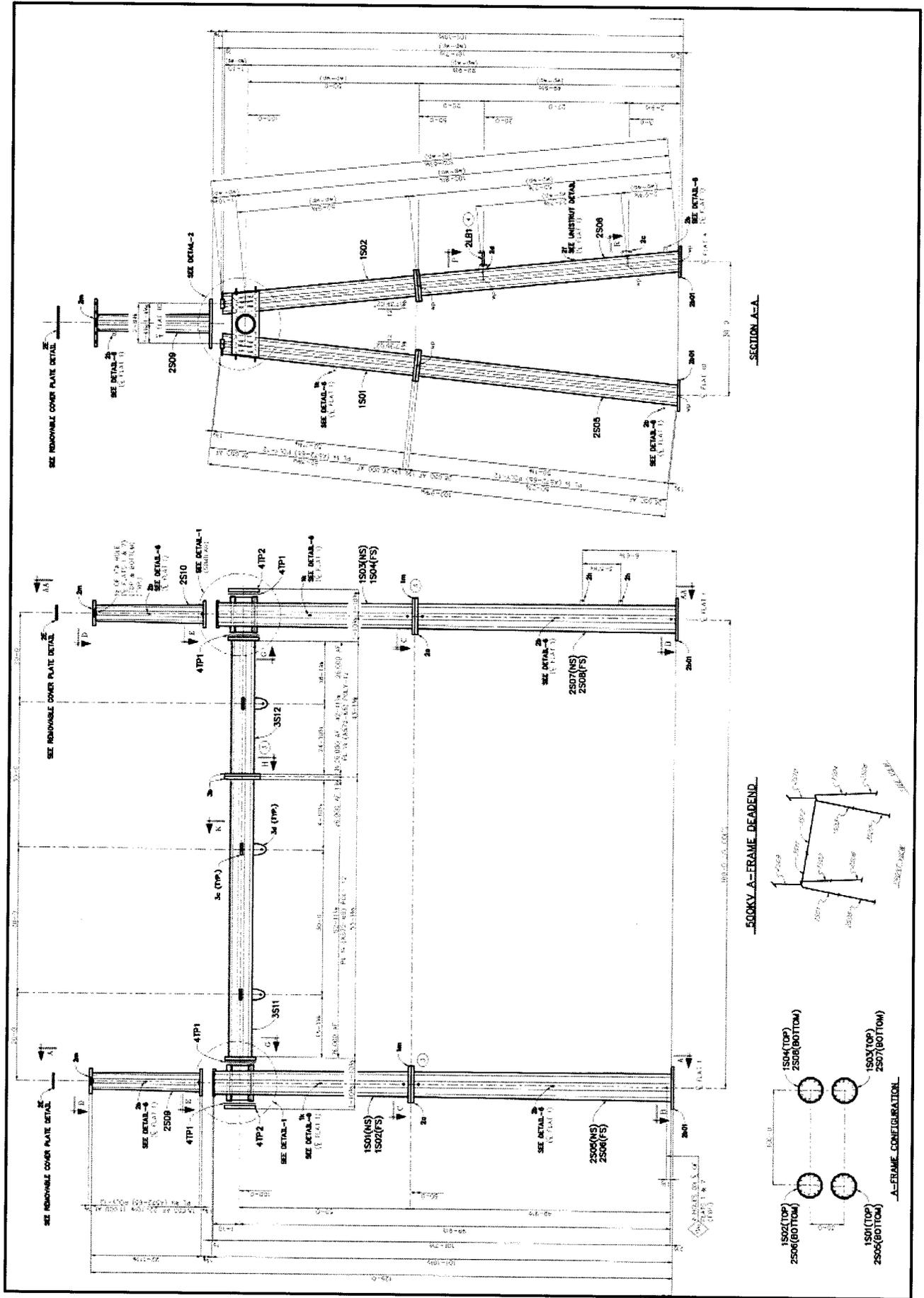
ACCESS ROAD  
STRINGING/  
PULLING SITE  
WORK AREA

THIS DRAWING IS THE PROPERTY OF FIRST SOLAR, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF FIRST SOLAR, INC. ANY UNAUTHORIZED REPRODUCTION OR TRANSMISSION OF THIS DRAWING IS STRICTLY PROHIBITED. FIRST SOLAR, INC. ACCEPTS NO LIABILITY FOR ANY ERRORS OR OMISSIONS IN THIS DRAWING. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.









**Figure G-5**  
 Typical Tubular Steel A-Frame Structure

Exhibit

H

# EXHIBIT H

## EXISTING PLANS

---

As stated in the Arizona Administrative Code, Title 14, Chapter 3, Article 2:

*“To the extent Applicant is able to determine, state the existing plans of the state, local government, and private entities for other developments at or in the vicinity of the proposed site or route.”*

The Project is located primarily on BLM-administered federal lands. The Project endpoints are located on private lands under the jurisdiction of Yuma County.

### ***LOCAL AND STATE GOVERNMENT PLANS***

The relevant plans of Yuma County for the lands in the vicinity of the Project are described in **Exhibit A** to this Application. The proposed Project is consistent with both the applicable Yuma County Plans and the two Special Use Permits (SUPs) issued by Yuma County for the solar development and associated infrastructure for the existing Agua Caliente Solar Project and the approved White Wing Solar Project (“Solar Facility”). The proposed Project does not cross Arizona State Lands, though some do occur in the general area.

### ***FEDERAL GOVERNMENT PLANS***

The Project would cross approximately 3.5 miles of BLM-administered lands. The northern portion of the BLM-administered lands crossed by the Project has been designated for solar energy development as the Agua Caliente Solar Energy Zone (SEZ). The southern portion of the BLM-administered lands crossed by the Project has been designated as a utility corridor – a preferred location for linear utility rights-of-way (ROWs). The proposed Project is consistent with both of these BLM land management plans.

### ***PRIVATE ENTITY PLANS***

#### ***Residential Development***

There is one existing plan for residential development within the vicinity of the Project. In 1997, F&F Capital Investments, LLC, filed a replat for an area about one-half mile south of the Project Site that is referred to as the Dateland Ranch Subdivision (see **Figure H-1, Subdivisions**). This subdivision was identified previously through the Yuma County Department of Development Services Internet Mapping and discussions with County staff. It was filed with Yuma County as license No. 97-00541 and the 3,200-acre property was subdivided into 81 40-acre parcels reserved for residential, recreational, or agricultural purposes. Individual owners cannot re-subdivide their 40-acre parcel. No development of this property has yet occurred.

### *Utilities*

The existing Hoodoo Wash Substation is the southern terminus of the proposed Project. There are two existing 500 kV transmission lines located immediately south of the Hoodoo Wash Substation. The Palo Verde -North Gila #1 500kV transmission line connects into Hoodoo Wash and the Palo Verde – North Gila #2 500 kV transmission line parallels this line but currently does not interconnect into Hoodoo Wash.

The existing Agua Caliente Solar Project is immediately north of the Hoodoo Wash Substation and east and north of the proposed Project. The approved Solar Facility is north and east of the Solar Site Substation that is the northern terminus of this Project.

The BLM-administered land immediately west of the proposed Project has been designated for solar development as the Agua Caliente Solar Energy Zone (SEZ).

### ***POTENTIAL EFFECTS***

The proposed Project is compatible with the existing, approved, and potential additional solar development in the immediate vicinity. The one potential private residential development planned near the Project is not actively being developed and it is unknown when or if it will be developed in the future.

Therefore, the Project will be compatible with all government and private plans in the area.

### ***REFERENCES***

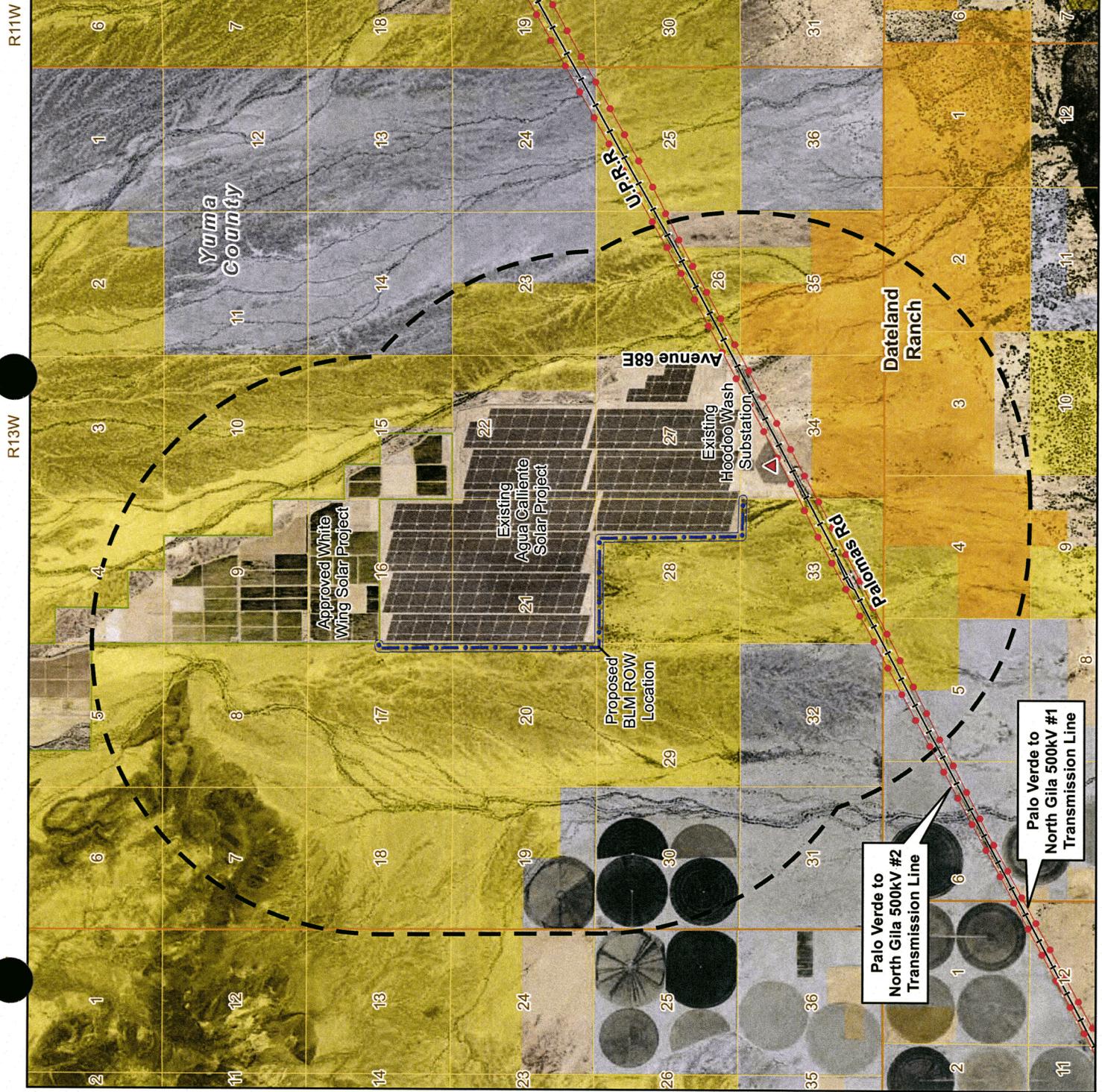
Bureau of Land Management (BLM). 2010. Yuma Field Office Record of Decision and Approved Resource Management Plan (Yuma RMP). [Online] Located at: [http://www.blm.gov/az/st/en/info/nepa/environmental\\_library/arizona\\_resource\\_management/YFO/YFO-ROD.html](http://www.blm.gov/az/st/en/info/nepa/environmental_library/arizona_resource_management/YFO/YFO-ROD.html). Accessed March, 2016.

BLM. 2013. Record of Decision (ROD) for the Arizona Restoration Design Energy Project (RDEP). [Online] Located at: [http://www.blm.gov/az/st/en/prog/energy/arra\\_solar/docs.html](http://www.blm.gov/az/st/en/prog/energy/arra_solar/docs.html).

County of, Yuma. 2020 Comprehensive Plan Adopted in 2012, and updated in 2015. [Online] Located at: <http://www.yumacountyaz.gov/departments-and-services/development-services/laws-guidelines/2020-comprehensive-plan> Accessed May, 2016.

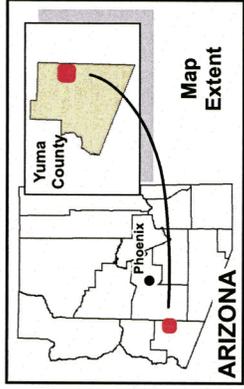
County of, Yuma. Yuma County Zoning Ordinance. Adopted in 2006, and updated through February 2016. [Online] Located at: <http://www.yumacountyaz.gov/home/showdocument?id=26467> Accessed May, 2016.

County of, Yuma. Yuma, AZ Profile. Arizona Commerce Authority. 2016. [Online] Located at:  
<http://www.azcommerce.com/a/profiles/ViewProfile/16/Yuma+County/> Accessed May,  
2016.



**Legend**

- ▲ Existing Substation
- Proposed Gen-tie
- Existing 500 kV Transmission Line
- Railroad
- Proposed Gen-Tie ROW - 300 ft Project Study Area (2-mile Buffer)
- Approved White Wing Solar Project
- Township / Range Boundary
- Section Boundary
- County Boundary
- Subdivision
- Jurisdictional Land Ownership
- Bureau of Land Management Land
- State Land



**WHITE WING GEN-TIE PROJECT**

Figure H-1 - Subdivisions

Map Extent: Yuma County, Arizona

Date: 07.11.16 Author: mc

Exhibit

1

# EXHIBIT I

## ANTICIPATED NOISE / INTERFERENCE WITH COMMUNICATION SIGNALS

---

As stated in the Arizona Administrative Code, Title 14, Chapter 3, Article 2:

*“Describe the anticipated noise emission levels and any interference with communication signals which will emanate from the proposed facilities.”*

### **INTRODUCTION**

The proposed Project is located in a remote area of unincorporated eastern Yuma County containing primarily agriculture, existing solar projects, and substantial electrical infrastructure. Yuma County does not have an applicable noise ordinance for this area.

A noise evaluation was conducted to determine the potential noise impacts that would be generated from the operation of the proposed Project. The noise that would be generated by the Project was calculated to determine what sound would be evident at the Project boundary and at the nearest sensitive receptors within the vicinity of the Project.

For measuring sound levels in ordinary environments, A-weighted (dBA) correction factors are employed. The A-weighted scale is used in most common sound level (noise) ordinances and standards. Environmental sound levels are generally described and evaluated in the following ways:

- The equivalent sound pressure level (Leq) is defined as the average sound level, on an energy basis, for a stated period of time (e.g., hourly) at a given location.
- The Ldn is the day/night sound level that was adopted by the Environmental Protection Agency (EPA) as a measure of community sound level. The EPA defines Ldn as the average A-weighted sound level for a 24-hour period. Nighttime sound levels (10:00 p.m. to 7:00 a.m.) are increased by a 10 dB weighting factor, to account for the public's sensitivity to nighttime sound levels when most people are sleeping. The daytime (7:00 a.m. to 10:00 p.m.) energy average sound level is added to a weighted (+10 dB) mean nighttime level. The Ldn meets the EPA requirements for a description of cumulative sound level exposure, in particular the requirement that it be easily measured with simple, relatively inexpensive equipment.
- The EPA has established sound levels that are identified as protective of public health and welfare. The EPA identified Ldn of 55 dB for residential areas as an outdoor sound level above which the public health and welfare will be affected (EPA 1974).
- Typical day-night sound levels in urban areas range from 68 to 90 dB; suburban areas average 50 dB; and rural range from 40 dB to 50 dB depending on the type of rural area.

For purposes of general comparison, **Table I-1** lists the average sound level of various sources as defined by the EPA.

<b>TABLE I-1 - EXAMPLES OF SOUND LEVELS IN DB AT VARIOUS LOCATIONS</b>	
<b>Location</b>	<b>Sound Level (dB)</b>
Inside an Average Residence	45
Light Traffic at 100 feet	50
Inside a Private Business	52
Inside a Large Store	60
Traffic near a Freeway	65
Normal Conversation (@ 3 feet)	65
Freight Train at 100 feet	75

Source: EPA

***EXISTING SOUND LEVELS***

The existing ambient noise in the vicinity of the Project Site varies depending on distance from some of the existing noise sources in the area. The existing Agua Caliente Solar Project does not generate significant operational noise, as it has no moving parts. The existing transmission infrastructure in the area likewise only has minor contributions to noise in the area.

Therefore, the ambient noise in the vicinity of the Project is 40 dB to 50 dB, typical of rural areas where agricultural activities are the most common use. These are daytime averages and can be higher or lower depending on the presence and proximity of significant rural noise sources such as farm equipment.

The most common noise source in the area is from agricultural equipment. The most significant source of local noise in the area was previously generated by the railroad located at the southern boundary of the Project Site. However, this railroad has not been in operation for several years.

***NOISE IMPACTS FROM PROPOSED PROJECT***

The noise impacts generated from the Project would occur primarily during construction. Construction noise would be generated during site preparation and construction of the Project Substation, erection of the Gen-tie Line support structures, and stringing of the conductors. Noise impacts during operations would be limited.

**Construction**

Noise generated during the construction phase would result from the operation of construction equipment and vehicles. **Table I-2** presents typical noise levels for construction equipment at a distance of 15 meters (45 feet). These values assume the equipment is operating at full power.

The typical noise 45 feet from a construction site would be 85 dBA because the construction equipment can be spread throughout a construction site and may not be operating concurrently. This value and the data presented above indicate that there will be a temporary increase in ambient noise that will be limited to the construction phase of the Project. The propagation of noise depends on many factors, including atmospheric conditions, ground cover, and the presence of any natural or man-made barriers. As a general rule, noise decreases by approximately 6 dBA with every doubling of the distance from the source. Therefore, noise levels at various distances from the construction site can be predicted and are shown in **Table I-3**.

<b>TABLE I-2 - TYPICAL CONSTRUCTION NOISE LEVELS</b>	
<b>Equipment Category</b>	<b>Noise Level at 45 ft (dBA)</b>
Dump Truck	88
Portable Rock Drill	88
Concrete Mixer Truck	85
Pneumatic tool	85
Grader	85
Front-End Loader	84
Mobile Crane	83
Excavator	82
Backhoe	81
Dozer	78
Generator	78

<b>TABLE I-3 - PREDICTED NOISE NEAR CONSTRUCTION ACTIVITIES</b>	
<b>Distance from construction site (feet)</b>	<b>Predicted Noise Level (dBA)</b>
45	85
90	79
180	73
360	67
720	61
1440	55

Construction noise generated by the Project would be intermittent in nature and would be temporary – only during the construction period. Construction of the Project is expected to take 4 to 8 months.

The nearest noise receptor (residence) is approximately 1.5 miles from the Project Site. At this distance, the construction noise from the Project will be imperceptible and at or near the background levels in the area. The actual noise level at any given time will vary with distance and wind direction and velocity.

Nearly all construction of the Project would occur during daylight hours. Noise impacts from construction are expected to be minor and short in duration.

### *Operations*

The operational noise profile of the Project would be limited. Providing the interconnection for the Solar Facility, the Gen-tie Line, Solar Site Substation, and Step-up Substation would all operate during daytime hours when the sun is available to generate power. Therefore, except for minimal noise that could be generated by emergency maintenance, they would not affect night time sound levels.

The nearest noise receptors (residences) are over 1.5 miles from the Project. At this distance, any operational noise generated will be imperceptible and at or near the background levels in the area.

### *CONCLUSIONS*

The impact from the Project on the sound levels in the area would be minimal. In addition, the nearest noise receptor (residence) is approximately 1.5 miles away.

The noise impact to people traveling on Palomas / Hyder Road (the nearby public road) would be imperceptible since people on the road would be in their vehicles and because of the low sound levels generated by the Project. Therefore, noise levels produced by the Project would be similar to background noise levels for this area.

The noise generated by the operational phase of the Project would be less than background noise levels at the nearest receptors.

Therefore, construction and operation of the proposed Project will not have a perceptible noise impact to residences or other potential receptors in the vicinity.

This Project is also not expected to generate interference with communication signals because of its remote location, because of the shortness of the Gen-tie Line, because of the presence of multiple existing high-voltage transmission lines in the immediate vicinity, and because it would not be near any residences.

***REFERENCES***

Environmental Protection Agency (EPA) 1974. Information on Levels of Environmental Noise Requisite to Protect Public Health and Welfare with an Adequate Margin of Safety. Office of Noise Abatement and Control. EPA 550/9-74-004. March. Community Noise.

**Exhibit**

**J**

# EXHIBIT J

## SPECIAL FACTORS

---

As stated in the Arizona Administrative Code, Title 14, Chapter 3, Article 2:

*“Describe any special factors not previously covered herein, which Applicant believes to be relevant to an informed decision on its application.”*

The Applicant has initiated a public / stakeholder outreach process as part of the development of the Project. This effort is being conducted in addition to the public outreach that was implemented for the White Wing Solar Project (“Solar Facility”), which also included extensive outreach efforts to distribute information and solicit input from the public and interested stakeholders as part of Yuma County’s process for approving the Special Use Permit (SUP) for the Solar Facility.

### ***CITIZEN PARTICIPATION FOR THE SOLAR ENERGY FACILITY***

White Wing Ranch North, LLC developed and implemented a public outreach program associated with the Yuma County Special Use Permit (SUP) process for the Solar Facility. The SUP was approved for the Solar Facility by the Yuma County Board of Supervisors in March of 2016. The public outreach program for the SUP process included the following activities:

- A mailing notice outlining the SUP process and the community meeting to be held on October 13, 2015, was sent to interested parties and property owners within 10 miles of the Solar Facility site.
- A community meeting was held at the Dateland Elementary School for the Solar Facility.

### ***PUBLIC / STAKEHOLDER OUTREACH PROGRAM FOR THE GEN-TIE PROJECT***

One of the primary goals of the public / stakeholder outreach program for the Gen-tie Project was to identify stakeholder issues and concerns specific to the development of the Project and the subjects of this CEC Application. To complete this process, a number of efforts have been implemented.

- **Project 1-800 number:** The Gen-tie Project established and is maintaining a 1-800 number that is used to respond to questions and obtain comments from the public. The Project phone number is 1 (844) 649-4613.
- **Photographic Simulation:** A photographic simulation using a 3-Dimensional (3D) model of the Project has been developed to provide stakeholders and the general public a sense of the size, scale, and setting of the Project.

- **Comment Forms:** Comment forms were utilized at the Open House public meeting to take written comments.
- **Public Comment Tracking Database:** The Applicant has created a database for documenting contacts with the public that will be maintained through construction. Contact records identify the name, contact information, topic(s) of discussion, and follow-up action needed and taken.
- **Project Website:** The Applicant has created a website to notify the public of all hearing dates and technical information regarding the Project. The website is: [www.WhiteWingGen-tie.com](http://www.WhiteWingGen-tie.com)

All stakeholders requesting a response will be contacted to provide the requested information. A thorough record of all contacts and response actions are provided in **Appendix J-1**.

### ***Open House***

An Open House was conducted on June 7, 2016 at the Dateland Elementary School. This Open House allowed the public to have informal, one-on-one conversations with Project representatives and express concerns, provide input, and receive answers to their questions. Comment forms were made available for all attendees.

Notice for the Open House was provided as follows:

- Notice of the Open House was published in the Yuma Sun in the May 29 and June 5, 2016 editions of the newspaper, which serves the communities in Yuma County including the vicinity of the Project.
- Individual mailings providing notice of the Open House were made to interested parties and property owners. The mailing list for this notice included everyone that was part of the previous mailings associated with the Solar Facility which included the property owners within 10-miles of the proposed Project.

The invitations for the Open House, newspaper advertisements, and mailing list have been included in **Appendix J-1**.

**Appendix J-1**  
**Stakeholder Outreach Materials**

**Meeting Notices**

AFFP

PUBLIC NOTICE White Wing Ran

**Affidavit of Publication**

STATE OF ARIZONA }  
COUNTY OF YUMA } SS

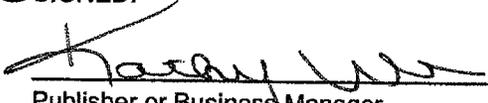
Lisa Reilly or Kathy White, being duly sworn, says:

That she is Publisher or Business Manager of the Yuma Sun, a daily newspaper of general circulation, printed and published in Yuma, Yuma County, Arizona; that the publication, a copy of which is attached hereto, was published in the said newspaper on the following dates:

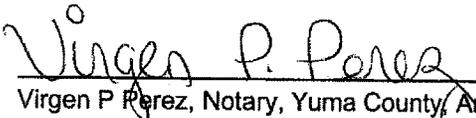
May 29, 2016, June 05, 2016

That said newspaper was regularly issued and circulated on those dates.

SIGNED:

  
\_\_\_\_\_  
Publisher or Business Manager

Subscribed to and sworn to me this 5th day of June 2016.

  
\_\_\_\_\_  
Virgen P Perez, Notary, Yuma County, Arizona

My commission expires: May 10, 2017



00017692 00093213

Leslie McFadden  
KP Environmental  
2160 Oxford Ave  
Cardiff by the sea , CA 92007

**PUBLIC NOTICE**

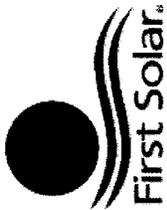
White Wing Ranch North, LLC, a subsidiary of First Solar, is proposing to build a 210 megawatt solar electric generating project using photovoltaic (PV) technology near Dateland and Hyder, Arizona. The proponent is conducting an informational Open House for the public to learn about the transmission interconnection associated with the Project that will be the subject of federal and state permitting processes.

The public meeting will be held:

**June 7, 2016  
4:30 to 6:30 p.m.  
Dateland Elementary School  
1300 S. Ave 64 E  
Dateland, Arizona 85333**

Representatives of the project will be available to provide information and address your questions and concerns. It is an Open House format and you can come anytime - RSVP is not necessary. We welcome your input and hope you can join us!

**IF YOU HAVE ANY QUESTIONS,  
PLEASE CALL 602-626-8956  
Daily May 29, 2016 & June 5, 2016 - 00093213**

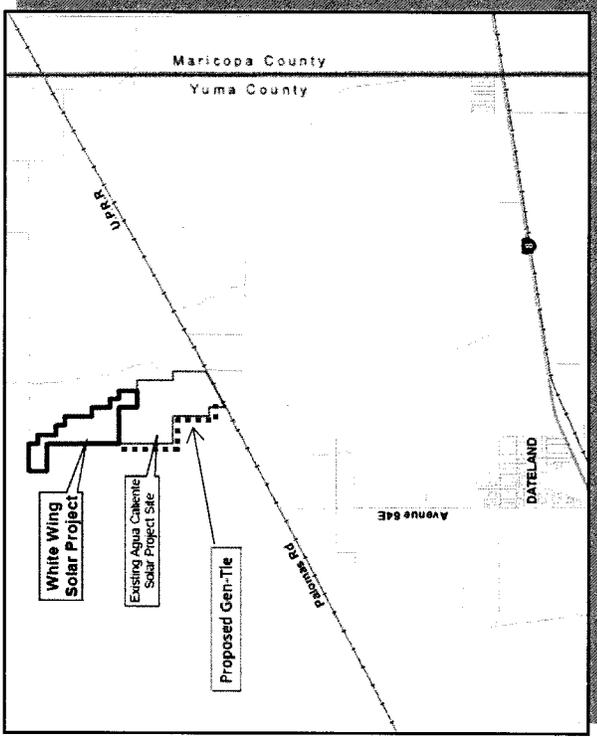


# YOU ARE INVITED TO AN OPEN HOUSE

**Date:** Tuesday, June 7, 2016  
**Time:** 4:30-6:30 pm  
**Location:** Dateland Elementary School  
1300 S. Ave 64 E, Dateland, AZ 85333

White Wing Ranch North, LLC, a subsidiary of First Solar, has approval to build a solar electric generating project using photovoltaic (PV) technology near Dateland and Hyder, Arizona. The White Wing Solar Project would be adjacent to the existing Agua Caliente Solar Project and would interconnect to the electrical grid via a gen-tie line between the solar site and the existing Hoodoo Wash Substation. The Project is initiating permitting for the gen-tie line and we are conducting an informational Open House for the public to learn about the proposed line. Representatives will be available to answer questions and provide information.

We welcome your input and hope you can join us. It is an Open House format and you can come anytime. An RSVP is not necessary. If you have questions please call Ian Calkins at 602-626-8956 or visit our website at [www.WhiteWingSolarProject.com](http://www.WhiteWingSolarProject.com).



## ¡Atención!

Les invitan a un reunión informativa pública por la línea de transmisión del un proyecto de energía solar commercial que se propone cerca de Dateland. Los representantes hablarán español y estarán disponibles a compartir información y contestar preguntas en cuanto del proyecto.

**Fecha:** El 7 de junio de 2016

**La Hora:** 4:30 - 6: 30 P.M.

**Localización:** La escuela primaria de Dateland, 1300 S. avenida 64 E., Dateland, AZ 85333



135 Main Street - 6th Floor  
San Francisco, CA 94105

*Resident Address*

**YOU ARE INVITED TO AN OPEN HOUSE**

OWNER NAME	OWNER NAME 2	BUSINESS NAME	OWNER ADDRESS	OWNER CITY	OWNER S' OWNER ZIP
STATE OF ARIZONA			1616 W ADAMS ST	PHOENIX	85007
UNION PACIFIC RAILROAD CO			1400 DOUGLAS ST STOP 1640	OMAHA	68179-1640
USA			2555 E GILA RIDGE RD	YUMA	85365
WOODS RICHARD J & SHARON F ETAL			5425 E SHEA BLVD	SCOTTSDALE	85254
NELSON CHARLES A & ELAINE L TR 9-22-00			RT 1 1195 BARD RD	WINTERHAVEN	92283
JERVEY RICHARD A JR			6601 GORDON AVE	FALLS CHURCH	22046
HOSTETLER RICHARD L			8746 STOCTON HILL ROAD SP 28	KINGMAN	86409
COSSA SUSAN B &	HAMILL CAROL A		5980 OAKHILL DR	SANTA MARIA	93455
VASQUEZ JOSE F			656 WESTMINSTER AVE	VENICE	90291
POE MYRNA	VIRGIL PRICE		5836 N 61ST DR	GILBERT	85301
ALLIANCE EQUITY GROUP LLC			3336 E CHANDLER HEIGHTS RD SUITE 121	GILBERT	85297
COSSA ANTHONY & SUSAN TR 1/3 INT	COSSA GARY H 1/3INT		PO BOX 7070	SANTA MARIA	93456
KUMILIN ADRIAN R & KAREN L JT			1872 N SIERRA DEL SOL	NOGALES	85621
MAI MICHELLE			1025 S DRIFTWOOD	SANTA ANA	92704
EWING JOHN L JR & DELORES			1744 E 26TH PL	YUMA	85364
SAGE ADVICE INVESTMENTS AZ LLC			6525 N 26TH ST	PHOENIX	85016-8936
WOODSPUR FARMING LLC			113 S LA BREA AVE THIRD FLOOR	LOS ANGELES	90036
NELSON KEITH E & CANDACE K	WILLIAMS SCOTT		9420 S 258TH E PL	BROKEN ARROW	74014
BRUYERE DENNIS P			8420 FAIRTON ST	PARAMOUNT	90723
BRAMS TRUST 11-1-91			1318 E LA VIEVE	TEMPE	85284
CARTER FARMS AZ LLC			1425 W 18TH ST	YUMA	85364
ARIZONA DESERT PALMS ESTATE AZ LLC			2120 W 24TH ST STE B	YUMA	85364
WISEMAN HARRY H TRUST 12-17-13			13459 E 45TH LN	YUMA	85364
GLOM CALLIOPE MARIA TRUST 9-20-06			4401 N 47TH PL	PHOENIX	85018
LANGLEY DATELAND RANCHES AZ LLC			2738 E GUADALUPE RD	GILBERT	85234
BONO PHILIP S &			4209 GARLAND AVE	NOTTINGHAM	21236
ONLY LAND AZ LLC			PO BOX 72540	PHOENIX	85050
CLIMAN LILLY M			553 W VALLE VERDE PL	NOGALES	85621
RODRIGUEZ SILVESTRE &	MURILLO DOMITILA JT		407 W SPAULDING ST	CHECOTAH	744262423
SIERRA JORGE & SILVIA JT			PO BOX 3233	DATELAND	85333
GARCIA ANTHONY M			937 ESTABLO ST	CALEXICO	92231
ERNEST JOHN S & BETTY J JT			15 F TORRES ST MINES VIEW	BAGUIO CITY	2600
LESNICK ALEC J &	LESNICK EDWARD J		PO BOX 6	MOORES HILL	47032
YEAGLEY JOHN & JULIA D			5481 VOLE COURT	YUCCA VALLEY	92284
UY FRANCISCO & REGINA			7624 W 83RD ST	PLAYA DEL REY	90293
BLACK STEPHEN C			8509 DALLAS ST	LA MESA	91942
VALENCIA JESUS & MARIA JT			560 W PLEASANT AVE SP 32	TULARE	93274
GETZ JOHN W & SANDRA K JT			PO BOX 3071	DATELAND	95333
ROBBINS PHYLLIS			1325 KENTUCKY GREENS WAY	DATELAND	95367
CARTER JERRE ANN			11456 E 35TH ST	YUMA	85387
FLORES ALEJANDRO & MARIA D JT			PO BOX 3063	DATELAND	85333
FULLER GLENN &	DOUILLARD KATHY*		9613 S FELDSPAR WAY	YUMA	85364
LANE DONALD J & DAWN MICHELLE JT			20205 N AVE 76 E	DATELAND	85333
LITZ JERRY E & PATRICIA			PO BOX 3148	DATELAND	85333
MARES EFRAIN & DOLORES JT			1614 E HOLLY	DEMING	88030
MINNIS FAMILY TRUST 08-02-06			8201 W GLEN ROSA AVE	PHOENIX	85033
ALEXA CHRISTINE M			349 W 300 N	BOUNTIFUL	84010
UPLAND ENTERPRISES NV LLC			PO BOX 701236	ST CLOUD	34770
VILLARAMA VICTOR & EMILIA			2550 E DESERT INN RD #488	LAS VEGAS	89121
SAAVEDRA MARTIN & MARGARITA JT			7019 FORSHALEE ST	PENSACOLA	32503
PICACHO TRADING POST AZ LLC			115 N BARKLEY ST	MESA	85203
LEA WILLIAM E & MARILYN C			5580 E ROYAL PALM RD	PARADISE VALLEY	85253
CONTRERAS SILVESTRE & GUILLERMINA JT			1985 SALEM	ELGIN	60123
THOMPSON CONNIE LOU			9620 FELDSPAR WY	YUMA	85365
BRODIE RICHARD G & LAUREL P JT			15578 INDIAN VALLEY LN	HOYT	66440
RENAUDIN DAVID M & KALENA N JT			25657 N 17TH AVE	PHOENIX	85027
OCHOA NICOLAS & LETICIA JT			PO BOX 3074	DATELAND	85333
KIRSTINE WALTER W & IRIS			PO BOX 3033	DATELAND	85333
TACKER TONYA			PO BOX 3164	DATELAND	85333
PYTTEL MAREK & HALINA JT			10820 E 36TH ST	YUMA	85367
FIRO LOUIS H			435 HOLLY AVE	PARAMUS	07652
FREEMAN JOHN & LORRAINE TRUST 7-19-04			8001 N 17TH DR	PHOENIX	85021
RAMIRES DANIEL JR &	RAMIRES JOANNA		2837 33RD ST	SAN DIEGO	92104
ERNST ALBERT T			1505 N HIGHLAND RD	DATELAND	85333
DURAN JESUS ANTONIO			366 CALLE LA BOLITA	SAHUARITA	85629
			PO BOX 3211	DATELAND	85333

DAVENPORT RESIDENCE TRUST 12-20-2013	1012 E SADDLE MOUNTAIN RD	PHOENIX	AZ	85086
DIAZ SALVADOR & FELISA	PO BOX 3078	DATELAND	AZ	85333
FIGUEROA SA DONNA MARIE &	PO BOX 1004	SARD	CA	92222
VT HOLDINGS AZ LLC	7047 E GREENWAY PKWY STE 250	SCOTTSDALE	AZ	85254
MARTINEZ TERESA	18411 VALLEY BLVD LOT 7	BLOOMINGTON	CA	92316
SKINNER EMMA	PO BOX 727	GILA BEND	AZ	85337
PENN EZRA A	1500 SHOSHONI TRAIL LOT 1	HARKER HGTS	TX	76548
KELM GERHARDT & VERNA G	PO BOX 693	SANDERS	AZ	86512
MIKALOW ALFRED A	4943 SOUTH POINT	DISCOVERY BAY	CA	94514
MOHR KENNETH B &	3335 MAXSON RD SP 39	EL MONTE	CA	91732
LANE KERRY & SHIRLEY	32020 N PARTTRIDGE CT	SAN TAN VALLEY	AZ	85143
LANE FRANK F	320W 300 N	BOUNTIFUL	UT	840107022
LANSING MARK STEPHEN	2874 N PENINSULA RD	EAST JORDAN	MI	49727
COURTNEY HERBERT N	95 TERRACE DR	PRINCE FREDRICK	MD	20678
BEGIN DONALD A & IRMA ANGIE	13545 E DROXFORD ST	CERRITOS	CA	90703
PATKO GEORGE R & HOLLIS M JT	24229 N 83RD ST	SCOTTSDALE	AZ	85255
A S LAND AZ LLC 1/2 &	16244 N 58TH ST	SCOTTSDALE	AZ	85254
DESANTIAGO JAVIER	1202 S 4TH AVE	YUMA	AZ	85364
ADAMS RONALD W	3994 E MORENCI RD	SAN TAN VALLEY	AZ	85143
MOORHEAD IAN M TRUST 10-04-2011	4665 JUNEAU LN NORTH	PLYMOUTH	MN	55446
KRISIK RONALD T & ELAINE JT	8757 W 130TH ST	PALOS PARK	IL	60464
HERNANDEZ ELVIRA REYNOSA	392 N MADEIRA AVE	SALINAS	CA	93905
MCCRAY PEGGIE M LIVING TRUST 11-9-06	PO BOX 3206	DATELAND	AZ	85333
MID COAST RECREATION	PO BOX 2745	ORCUTT	CA	93457
FLORES SANTIAGO	9613 FELDSPAR AVE	YUMA	AZ	85364
THORNTON JEFFREY R & CHRISTINE	PO BOX 37	BRIDGEPORT	PA	19405
WHATLEY THOMAS E & BRENDA A JT	1 CONSTANTINE WAY	MT SINAI	NY	11766
GONZALES ALMA ROSA	PO BOX 1791	SOMERTON	AZ	85350
SOUTHWEST FARMING	PO BOX 607	WELLTON	AZ	85356
BROWN RALPH C	232 ROCKY POINT RD	RANCHO PALOS VERDES	CA	90274
NELSON KEITH &	9420 S 25TH E PL	BROKEN ARROW	OK	74014
TIPTON M	PO BOX 1268	TACNA	AZ	85352
YEAGLEY JOHN D & JULIA D	7624 W 83RD PL	PLAYA DEL REY	CA	90293
WESTSTAR LOAN SERVICING AZ CORP	127 MINNIE ST SUITE 200	FAIRBANKS	AK	99701
INGRAM ROYCE R	1607 SPEEDWAY	WICHITA FALLS	TX	76301
NICHOLS JOHN K & LINDA M JT	PO BOX 3072	DATELAND	AZ	85333
ROSCAMP PATRICK &	1066 BOYER	WALLA WALLA	WA	99362
STONG LESTER L TRUST 7-19-95	9823 SILVERBELL DR	SUN CITY	AZ	85351
FLORES ARMANDO	21751 W COCOPAH ST	BUCKEYE	AZ	85326
HERNANDEZ MARIA S	PO BOX 3125	DATELAND	AZ	85333
STRUBLE KENT EUGENE	829 FLORDON DR	CHARLOTTESVILLE	VA	22901
NIX WILLIAM DON	365 N CEDAR ROCK RD	PICKENS	SC	29671
ELDER STANLEY D	2627 E THOMAS	PHOENIX	AZ	85016
LOPEZ ADOLFO	PO BOX 3172	DATELAND	AZ	85333
BUKAI OHAD	6004 LIEBIG AVE	BRONX	NY	10471
KESTERSON JOHN T & DOROTHY J JT	13391 W PARK RD	TUCSON	AZ	857352425
KAI DATELAND AZ LLC	PO BOX 2305	CORTARO	AZ	85652
HATCHER WILLIE D & GLORIA P JT	155 N 16TH AVE	YUMA	AZ	85364
REDNOR LAURANCE	4555 E EXTER BLVD	PHOENIX	AZ	85018
MCGOVERN SHIRLEY	PO BOX 766	FAYETTE	OH	43521
FIRST AMERICAN TITLE INSURANCE CO	1313 E OSBORN RD #250	PHOENIX	AZ	85014
DE LEON EDGAR & BRENDA	15642 SAND CANYON AVE	IRVINE	CA	92619-9998
HILA BEN ENTERPRISE AZ LLC	5632 N 19TH AVE	PHOENIX	AZ	85015
LOERA JOSE DE JESUS & MARGARITA R JT	PO BOX 5589	SAN LUIS	AZ	85349
HANSEN MICHAEL JAY	2535 W 4TH ST SP 1	YUMA	AZ	85364
ENDSLEY TRUST 2-6-94	25454 COUNTY RD N	CORTEZ	CO	81321
ARIZONA DESERT PALMS ESTATE LLC	PO BOX 6497	YUMA	AZ	85366
CASTANEDA MARIA	PO BOX 3187	DATELAND	AZ	85333
SWANNES JEFF L & LAURA A JT	13170 E 39TH WAY	YUMA	AZ	85367
FALLAW HENRY TALBERT S/S	531 WILLIAMS CT	TYLER	TX	75702
TNT FARMING AZ LLC	9135 E STETSON ST	YUMA	AZ	85367
RENAUDIN JASON	PO BOX 94	TACNA	AZ	85352
CLARK MATTHEW K	PO BOX 4085	YUMA	AZ	85366
SMITH RICHARD L &	N 62 W 14742 MILL CREEK CT	MENOMONEE FALLS	WI	53051
TUPPER DENNIS L TRUST 12-28-10	10320 WILSON RD	MONTROSE	MI	48457
CHURCH OF JESUS CHRIST OF LDS	50 E NORTH TEMPLE RM 2225	SALT LAKE CITY	UT	84150
YOUNGERS FAMILY TRUST 7-27-88	19496 MAMMOTH DR	BEND	OR	97702

HUFFMAN JACALYN MAE JT

MOHR COLLETTE L

NESREDDINE GHADA HAMADE 1/2

SUITE 2

WILLIAMS SCOTT

MANSFIELD CRAIG ETAL

ROSCAMP CLAUDIA

MC GINNIS BILLY GRAY JTS

BFA LIQUIDATION TRUST MEMBER  
PO BOX 50490

MCSHANE CHERYL A & JOHN P



MARTIN JOSE & KRESS GERTRUDE M TRUST 8-2-96 GRANT TRICIA FRISCH KERRY KRUPA & SEWARD PHILIP R & TONI A TRUST 6-12-01 ANDERSON ELEANOR & VOTT SUBHA & SHABNAM JT HALVARSON H STANLEY & JANET M TRUSTEES FAST DEBRA D SIS MCDOWELL CARO BRAD IOAN MOSCROP MARY ANN & FRANK TRUST 1-21-94 YOUNG STEVEN LEE TANG PROPERTIES LLP AZ FAZIO EUGENE S & KATHY JT & SWETZER WILLIAM DALE FINKE TRUST 3-4-99 RASCHK ROBERT J & CAROLYN JT HAVERSTOCK BARBARA A HALL DENNIS E & DEBRA LOU KRIPPENE ARNO & LORANN JT NORTHROP MICHAEL BRENT & SHERRY MARIE JT AMAVISCA FAMILY TRUST FUGLSANG KATHRYN MARY TRUST 11-15-93 SANCHEZ ROSE J & FRED R JT HILLIS MANON REED & GRACE E GUTIERREZ ENRIQUE & DELIA JT HUNT TERENCE W JOHNSON DOUGLAS STEONE HERLEY LILIAN S PHASHA TACKER ROSELEA D WALTERS WILLIAM R WILLIAMS EDWARD E & VIOLA J JT DAVIG GEORGE A VALENCIA JOSE & BOGARIN CARMEN CARLOS MARIA DATELAND 318 LLC MILLER DONNA JANE SOBCZAK MICHAEL D CRICK WALTER E & PHYLLIS M JT NORTHAM SUSAN MAE ESCAMILLA ADA & ARMANDO JT PAKAY WILLIAM E COOK HOMER & SANDRA MARK ROBERT L GIBSON ROBERT SWAN FAMILY TRUST 10-3-90 BUSSE JUNE R SHAW VENIS KORACH DEAN SIS MILLER MARLA ASCHENBACH JAMES R & PATRICIA A JT YOUNG KEVIN A & EMILY C JT ENGEL JEFFREY D DALE ROBERT A & MESSER MARVIN G THOMPSON WILLIAM H & MARY A WEYNS GERARD & LINDA TRUST 05-17-96 LIPKE ELWYN H & WADENA J GERARD PEGGY ANN & JEAN MARIE WALLSKOG GLEN ERIC SKOUSEN TRUST 4-13-88 FOX TERENCE H & HERNANDEZ ALEJANDRO JR & MERCEDES EDLIN THEODORE P SR	RODRIGUEZ SANDRA LUZ JT  FRISCH KERRY J ROBERT ROSS M & HALVARSON H STANLEY & JANET M TRUST &	2097 S 8TH AVE 936 CATFISH CREEK RD BOX 91093 319 8888 COUNTRY HILLS BLVD NW 1114 FRANKLIN ST 8891 S 48TH AVE 1637 W FLOWER ST ATTN: W KEMP PO BOX 778071 1024 KELLUM 706 S LORETTA DR 9010 E RANGE RIDER TRAIL 9662 W COLLUM 1310 WINCHESTER WAY 774 BETTY CT 4224 E 4TH ST PO BOX 1514 PO BOX 3201 32118 SAILVIEW LN 12344 E CALLE MARIA 7509 40TH N E 1502 CATALINA RD BOX 3201 354 S MANLEY RD 1097 W SWAN DR PO BOX 1935 16 W SOUTH ST PO BOX 177 PO BOX 323 424 32ND UNIT 302 PO BOX 926 PO BOX 3114 1506 N DEFIANCE R-101 PO BOX 517 PO BOX 3088 13165 SW ASH DR PO BOX 368 PO BOX 3052 PO BOX 3117 6766 RADIO DR PO BOX 3318 2026 E LAUREL CIR 3610 S RAVINE AVENUE 4972 LORENDALE RD PO BOX 3171 PO BOX 3005 14690 E 52ND DR 1644 N 22ND PL 9623 W MARIPOSA ST PO BOX 822 PO BOX 7653 10106 MILLS AVE 628 S 65TH ST # 1 28702 LIGURTA LN PO BOX 16263 5005 HAMPTON CT 1960 E 32ND ST SP 801 2606 STEEPLE ROCK DR PO BOX 1740 13202 E 42ND DR 8953 W CITRUS WAY PO BOX 15059 8889 RD 10 1/2 SE PO BOX 3004 1008 WILLARD 11355 E 675 S 54020 S AGUA CALIENTE ROAD 11405 E 78TH TER 522 N SAGE COURT PO BOX 1538	YUMA LAKE PLACID CALGARY NAPA YUMA PHOENIX HENDERSON FAIRBANKS ORANGE MESA CHICAGO AUBURN SUNNYVALE TUCSON SCOTTSDALE DATELAND WESTLAKE VILLAGE YUMA SEATTLE DATELAND RIPON CHANDLER YUMA ARLINGTON HEIGHTS BOULDER NEW PLYMOUTH CLIFTON PAGE DATELAND TACOMA YACHTS DATELAND DATELAND PORTLAND LONEDELL DATELAND DATELAND SAN DIEGO SAN LUIS MESA PAHRUMP DULUTH DATELAND DATELAND YUMA PHOENIX PHOENIX MEADOW VISTA RIVERSIDE WHITTIER MILWAUKEE WELLTON DULUTH GRANITE BAY YUMA ERIE SPRINGFIELD YUMA GLENDALE MILL CREEK OTHELLO DATELAND RICHLAND CULVER DATELAND RAYTOWN GILBERT HOOD RIVER	AZ FL AB CA AZ NV AK CA AZ IL CA CA AZ CA AZ WA AZ CA AZ AZ IL WY ID CO AZ AZ WA OR AZ OR OR MO AZ AZ CA AZ AZ NV MN AZ AZ AZ CA CA CA WI AZ MN CA AZ CO OR AZ AZ WA WA AZ WA IN AZ MO AZ OR	85364 33852 T3C 5W6 94559 85364 85015 89077 99701 92669 85207-1363 60634 95602 94086 85711 852521514 85333 91360 85367 98115 85333 95366 85286 85366 60004 82923 83655 815209153 86040 853333257 98406 97498 85333 97223 63060 85333 85333 92114 85349 85213 89048 55811 85333 85333 85367 85006 85037 95722 92512 90604 532141726 85356 55816 95746 85364 805169517 97477 85367 85305 98082 99344 85333 99352 46511 85333 84138 85234 97031
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BACKLUND RICHARD ALAN & BARBARA AMES JORDAN	2521 DRESDEN LN	GOLDEN VALLEY	MN	55422
BROAD GARY D & DENISE L JT	6295 E 43RD PL	YUMA	AZ	85365
SANCHEZ RASHELL	1628Z COPPERRIDGE WY	CANDWELL	ID	83607
MARINE BIOLOGY RESEARCH INC	3411 COPE ST	ANCHORAGE	AK	99503
BURNS TROY	PO BOX 7119	YUMA	AZ	85366
CRUZ ANDRES V & CATHERINE D JT	PO BOX 3127	DATLAND	AZ	85333
BALL FRIEDA KELLER	15888 S FOREST HAVEN RD	MOLALLA	OR	97038 8486
MEZZA RAMON G & MARIA I JT	PO BOX 3221	DATLAND	AZ	85333
HAUGEN ELLA L	15205 146TH AVE E	ORTING	WA	98360
THEODORE DENISE &	PO BOX 400388	HESPERIA	CA	923400388
ALLISON JERRY	31607 N 64TH ST	CAVE CREEK	AZ	85331
SALVADALENA DOROTHY M	2911 SE VILLAGE LOOP SP 404	VANCOUVER	WA	98683
BADGETT PATRICIA JOHNSON DUANE JR	1108 MARLOW ST	MODESTO	CA	95351
KELLER GERALD A	14190 QUAIL RIDGE DR	RIVERSIDE	CA	92503
STILE FRED & JUANITA JT	644 ACERO AVE	PUEBLO	CO	81004
MURRAY DENNIS J	3100 PECAN CROSSING	MESQUITE	TX	75181
WHELAN JAMES F & CAROLYN J TRUST 7-26-2006	606 FRANCISCO PL	DAVIS	CA	95616
JAMES STEWART COMPANY	6811 E MAYO BLVD SUITE 350	PHOENIX	AZ	85054
TORRES ENRIQUE NEGRETTE & GUILLERMINA C	PO BOX 671	PIRU	CA	93040
MARTINEZ NOEMI	PO BOX 2204	GILA BEND	AZ	85337
CAMERON GEORGE D III	5055 GORDON AVE	NEWAYGO	MI	493379164
HILLS LISA S	PO BOX 246	YELM	WA	98597
SOMMARS RONNIE & KATHY JT	612 S POWERLINE RD	NAMPA	ID	83686
HARLEY CHARLES B	PO BOX 3084	DATLAND	AZ	85333
ZEHE RAYMOND G	526 SHERIDAN PL	SAN JOSE	CA	95111
REPECH ARTHUR	8621 S WICKFORD DR	OAK CREEK	WI	53154
WOMACK CYNTHIA L	PO BOX 311	TACNA	AZ	85652
FRAZIER ROBERT S SS	PO BOX 335	BRONSON	FL	32621
RIGER MICHAEL & MITCHELL (FRANK)	1800 GOUGH ST APT 3	SAN FRANCISCO	CA	94109
NAPOLES LAWRENCE A & MARY F	4693 71ST ST	LA MESA	CA	91941
GRITTON HELEN MC KEAN TRUST 2-18-99	235 W 2950 S	SALT LAKE CITY	UT	84115
RODRIGUEZ Z AURELIO & VICTORIA JT	PO BOX 3186	DATLAND	AZ	85333
VALDEZ JOSE A & NORMA E	PO BOX 3227	BEAVERTON	OR	97007-3500
GIBSON LIVING TRUST 1-5-98	15815 SW VILLAGE LN	DATLAND	AZ	85333
ONATE MARIE ELENA & CANDELARIO	BOX 3134	DATLAND	AZ	85333
DJR HOLDINGS LLC	120 STATE AVE NE #1416	OLYMPIA	WA	98501
JOHNSON WILLIAM R	1408 BESSIE ST	LAWTON	OK	73501
LAMBERT ADEN A & LORETTA J JT	947 E BRUNNER RD	ATHOL	ID	838018900
LACKNER W HAROLD	3375 E HARDY ROAD	WILLCOX	AZ	85643
FAZIO JOINT TRUST 5-7-2014 ET AL	8433 NE 13TH AVE	PORTLAND	OR	97211
BROXHAM MARY LOUISE SS	300 E SOUTH ST	ONTARIO	WI	54651
ZINGG LEONARD D & LOIS ANN TRUST 9-20-99	18034 N 17TH WAY	PHOENIX	AZ	85022
TOWNER JEWELL WRIGHT UND 1/2 INT AND	727 BENNETT MARY JEWEL TOWNER	RIDGECREST	CA	93555
HIDDEN VALLEY RANCH I AZ LLC & HIDDEN VALLEY RANCH II AZ LLC	8711 E PINNACLE PEAK ROAD	SCOTTSDALE	AZ	85255
LYNN EMMETT L	4124 JAMES WESTON DR	AWENDAW	SC	29429-5937
GABRIEL FAMILY TRUST 06-30-95	381 N 6TH ST	GROVER BEACH	CA	93433
YOUNG DARL	81-880 ARJUS	INDIO	CA	92201
TRACY FRED L & CAROL L	39480 E CO 4TH ST	ROLL	AZ	85347
WOLF HELEN &	PO BOX 1062	TEMPLETON	CA	93465
BERRY NORMAN & GRACE JT	8561 S AMMONS ST	LITTLETON	CO	80128
CUNNINGHAM MERLE E & BETTY J	2701 LOS AMIGOS DR	RANCHO CORDOVA	CA	95670
MATY DERMOT & KENDRA	617 NE BRAZEE ST	PORTLAND	OR	97212
ZIMMER ARDELL D	13 TUNIS WAY	PACHECO	CA	94553
ROBNETT LUCIUS	PO BOX 6277	ST THOMAS	VI	00804
WOOSLEY JOHN R & ROSE D	11144 RAINIER SOUTH AVE	SEATTLE	WA	98178
GUERRERO BERENICE*	PO BOX 3090	DATLAND	AZ	85333
HESSelman CARL V & ANNE	PO BOX 3278	LACEY	WA	98509-3278
VALENCIA GUILLERMO RIOS & HILDA LUNA JT	PO BOX 2352	GILA BEND	AZ	85337
WILSON DONALD E	9559 E 36TH ST	YUMA	AZ	85365
VALENCIA SERGIO ARTURO	8275 HOLLAND COURT	ARVADA	CO	80005
VANGILDER JEFFREY LYNN	2880 AVALON	ROCHESTER HILLS	MI	48309
GEORGE FRED K	419 DOUGLS FIR	GOLDENDALE	WA	98620
HEJDUK PATRICIA & JOANNE	5943 W HAZELWOOD AVE	PHOENIX	AZ	85033
ENDTIME INC TX NONPROFIT CORP	2701 FAST GEORGE BUSH TURNPIKE STE 100	PLANO	TX	75074
RUDOLPH DOROTHY	3420 WOOSTER RD APT 108	ROCKY RIVER	OH	44116
OLROGGE ALICE V	1162 E RIVER ROAD	GRAND ISLAND	NY	14072
YEA EANG &	8427-150A ST	SURREY	BC	V3S 8J7

AN POE JT

FLINT PHILLIP E & FLINT GERALD DAVID  
 ARMSTRONG SHERILYN D  
 FRIAS FREDERICH 1/2 INT  
 WESKAR INC EMPLOYEES RETIREMENT PLAN  
 BEYER RICHARD A ET AL  
 ASHBURN ROBERTA L  
 BECK ROBERT & KRISTINE JT  
 MAXSON JOHN  
 O'BRIAN CODY M & EMMA L  
 DIAZ DIMAS & ANN K  
 WHITAKER JOHN TRUST  
 STANISH JOHN & ALICE  
 COOPER CAROLYN J & ROBERT G  
 SCHROEDER JOSEPH M & LORRAINE T  
 LOPEZ ANDREW III & MARCIA J JT  
 CALL JEFFREY L  
 CAIN DANIEL  
 HALE CHARLES B & PENNY K JT  
 ZAMORA ARMANDO  
 CRISP DENNIS & VERA ARDITH TRUST 12-1-96  
 CONNERLY DIANNA J &  
 EDKINS BRIAN  
 SHAFER DONNA SUE MASTERS  
 JAGUAR INVESTMENTS AZ LLC  
 HETKE LOVING TRUST 11-12-90  
 OLIVAS SYLVESTER  
 MONTGOMERY JOHN M JR  
 KEMP JAMES F &  
 GUEVARA PETRA CHAVEZ  
 VALENCIA LUIS MARTINEZ & ROCIO JT  
 TANIO HENRY & GERTRUDE  
 KEMP JACKIE H ETAL  
 RODRIGUEZ FRANCISCO & MARIA JT  
 TESTER BARBARA J  
 GRAFFIUS RICHARD  
 MALAD INC AZ CORP 1/2 &  
 EASVZ LLC  
 ACOSTA ELIZABETH  
 GEORGE THOMAS F  
 CHAVEZ LEODEGARIO & MARIA E JT  
 THOMAS ROBERT J & ANN JT &  
 GREENFIELD C E & CECILIA JT  
 STONE JESSE & BLEVINS GLADYS &  
 BARKER E PATRICK & FAYE  
 OSTERMAN DONALD GENE &  
 MURCIA FERNANDO  
 WESAW DELMAR W  
 DAVIS TIMOTHY TRISTEN FRANKLIN  
 EASLEY BENITA L LIVING TRUST 6-15-95  
 HORNUNG WILLIAM J & CHARLOTTE B TRUST  
 BLANFORD OVID F S/S  
 KALOUPEK MARJORY J & ROBERT T JT  
 BRAMMELL CATHERINE C  
 ALDRED FRANCES M &  
 HERRON JANET D & ROBERT J JT  
 STUBLASKI JAMES L  
 FINNERTY JOHN D  
 RODRIGUEZ ROSA O  
 HARPER RICHARD W  
 LANDEROS JESUS  
 THOMPSON DAVID A & CAROL A JT  
 GENTRY RONNIE D & BRENDA LEE MITCHELL  
 ZION STATE BANK TR  
 BRAXTON SHIRLEY A  
 STOCKTON LEROY G & EMMA C JT  
 REDNOR JANET  
 SHAY OIL CO

FLINT FAMILY TRUST 7-28-07  
 NIPP KENNETH 1/2 INT  
 CONNERLY IMOGENE S JT  
 JOHNSON THOMAS JT  
 THOMAS MYRON J  
 OSTERMAN WM T C/O TODD HAMRICK  
 ALDRED GARY LEE\*

8606 N 94TH AVE  
 9920 N 73RD AVE  
 1200 E CENTRAL AVE UNIT 61  
 4400 N SCOTTSADLE RD #9  
 614 NOBEN AVE  
 149177 AHERN DR  
 3134 E RD  
 PO BOX 1810  
 6132 144TH PLACE SE  
 10551 E BLAKE RANCH RD  
 PO BOX 5754  
 141 SHASTA RD  
 613 COLUMBIA AVE  
 5829 S E MCNARY RD  
 PO BOX 3021  
 W 21497 CALL VALLEY RD  
 BOX 3122  
 3425 FOUR TREES DR  
 915 SHOREPOINT CT APT E101  
 28561 DOMINGO DR  
 27 FELDMEYERS LN  
 107 WESTOVER  
 1245 W 17TH PL  
 127 WARWICK ST  
 PO BOX 9  
 428 FIRST ST E  
 PO BOX 3068  
 PO BOX 3195  
 2302 ORCHARD CREST BLVD  
 2798 9TH AVENUE E  
 1208 S SANTA CRUZ LN  
 3007 ONTARIO RD  
 10038 S NEW ERA ROAD SP 71  
 1955 N VAL VISTA DR ST 107  
 6202 S WILLOWBROOK DR  
 7338 E 25TH PL  
 4312 W PARADISE  
 4238 W 21ST PL  
 3412 W 2ND STREET  
 1516 MELROSE ST  
 7774 MONO RD  
 PO BOX 284  
 3028 E CARPENTER ST  
 1250 E HALLANDALE BEACH BLVD NO 505  
 PO BOX 669  
 BOX 6868  
 1275 E HOFMEISTER CT  
 516 S BUENAGUA RD  
 1751 W CITRACADO PARKWAY SP 207  
 826 TURNBERRY DR  
 901 SWEET BRIAR RD PO BOX 906  
 3260 SW ZERO ST  
 1029 E MACLYN STREET  
 7440 MAIN  
 22 PINE VALLEY RD  
 11223 N 38TH AVE  
 307 MARTELLA DR  
 380 E PALO VERDE ST  
 PO BOX 28  
 PO BOX 976  
 38781 N PINE  
 4319 W SOFT WIND DR  
 3527 FEDERAL WAY  
 1930 N E 56TH DR  
 PO BOX 1249

PEORIA  
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 YUMA  
 PLYMOUTH MEETIN  
 NYSSA  
 MILWAUKIE  
 DATELAND  
 STRUM  
 DATELAND  
 WEATHERFORD  
 ALAMEDA  
 MISSION VIEJO  
 PALM SPRINGS  
 STATEN ISLAND  
 SAN ANTONIO  
 YUMA  
 PARK FOREST  
 ARLINGTON  
 LAKE MARY  
 SONOMA  
 DATELAND  
 DATELAND  
 MANASQUAN  
 TWIN FALLS  
 TUCSON  
 LITTLE CANADA  
 CANBY  
 MESA  
 MORRISON  
 YUMA  
 GLENDALE  
 YUMA  
 ANACORTES  
 COEUR D ALENE  
 HAGERMAN  
 BELLEVUE  
 SPRINGFIELD  
 HALLANDALE BEACH  
 WINSLOW  
 WETASKWIN  
 HAYDEN  
 PAYSON  
 ESCONDIDO  
 GRINELL  
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 REDMOND  
 KENT  
 ENVILLE  
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 85366

BOLZ RUTH W	1995 NW CARY PKWY UNIT 328	MORRISVILLE	NC	275604606
DEBARCO RONALD FRANK	13570 E 48TH DR	YUMA	AZ	85367
CABRERA JUAN &	30921 W PORTLAND ST	BUCKEYE	AZ	85396
WATSON LINDA DIXON	PO BOX 93	BURBANK	WA	993230093
LEHMAN DOY S & JENNETTE B JT	28425 S SHORE DR	UMATILLA	OR	97882
POTTER SHARON K	9 TAMARACK LN	JEFFERSONVILLE	IN	47130
NUNN JAMES & DIANE	HC 1 BOX 102	DATELAND	AZ	85333
CALLAHAN CATHERINE A ET AL	6230 N 15TH ST	PHOENIX	AZ	85014
HUNTER ARTHELLA L TRUST	25861 E 28TH ST	SAN BERNARDINO	CA	92404
RISK EDWARD F & ELIZABETH R	12325 PINECREST DR	PLYMOUTH	MI	48170
EGGERS KEITH	PO BOX 71	OCOTILLO	CA	92259
STODDARD RUBY I	2360 HIGH MEADOWS	ORTONVILLE	MI	48462
LOUGHRRIGE WILLIAM J & MILDRED J	1118 E WESLEYAN DR	TEMPE	AZ	85282
MARKHAM JOEL M	PO BOX 61	SISAKET	SI	33000
FRANKLIN LANNIE	2100 VICTORIA AVE	LOS ANGELES	CA	90016
GREENE FAMILY LIVING TRUST 5-19-93	2625 E SOUTHERN AVE C-297	TEMPE	AZ	85282
DAVIS RICHARD THORNDYKE & MARY WALSWORTH	3664 MANDEVILLE CANYON RD	LOS ANGELES	CA	90049
BISBO MARVIN	776 COUNTY RT 111	WEST MONROE	NY	13167
MAYORQUIN LUIS & GUADALUPE S &	PO BOX 3036	DATELAND	AZ	85333
BURNETT CHARLES	PO BOX 3212	DATELAND	AZ	85333
SWEENEY ANN MARIE	24633 N 65TH AVE	GLENDALE	AZ	85310
MORENO HECTOR &	PO BOX 3018	DATELAND	AZ	85333
LAND INSIGHTS LLC	2048 N 44TH ST STE 100	DATELAND	AZ	85008
SENNER GREGORY P & JAN M	7850 WHITE LANE	PHOENIX	AZ	85309
NELSON KEITH & CANDACE	1125 VICKI LYNN DR	BAKERSFIELD	CA	93309
ALLEN GLORIA JEAN	2 W RAWHIDE AVE	SCHERTZ	TX	78154
WHITEID JERRY & SHIRLEY JT	53435 RAILRD DR	GILBERT	AZ	85233
SMITH VALERIE C	8143 W LA MADRE WAY	UNION	OR	97883
DENTON GLENN W & VERDA MARIE	2225 ALLISON AVE	LAS VEGAS	NV	89149
WESELMAN WILLIAM J &	PO BOX 3112	INDIANAPOLIS	IN	462245024
DRAZINIC MARIA	1006 HERMOSA RD	DATELAND	AZ	85333
MARTINEZ LIDUVINA	PO BOX 112	EUSTIS	FL	32726
HERNANDEZ GUADALUPE	38777 E COUNTY 3 1/4 ST	SALOME	AZ	85348
MARTINEZ MARIA & ERNESTO	PO BOX 2138	ROLL	AZ	85347
PEREZARCE FERMIN G & MARIA M JT	3504 SANDPEBBLE WAY	GILA BEND	AZ	85337
HICKMAN DAVID M	1176 SW FORESTRY LANE	BAKERSFIELD	CA	93313
MEAD ROGER EDWIN III & AMBER	399 LAINE ST	DALLAS	OR	97338
FARRELL JANIS M	8235 BEECH GROVE ROAD	MARTINSVILLE	CA	93940
BUCHAN DANNY B & GAYLE JT	11441 S CASSIDY DR	YUMA	AZ	46151
MC FARLAND LORNA D	15949 79TH ST NE	MARTINSVILLE	IN	853675798
NICHOLSON THOMAS S & CAROL J JT	PO BOX 10	DRAYTON	ND	58225
THOMAS LESLIE M JR & VEDITZ JANET T & THOMAS LAWRENCE M	PO BOX 649	COOLIN	ID	83821
COHN PAUL ROBERT	20058 MOUNT FAITH PL	LINCOLNVILLE	ME	04849
FUELLER FERDINAND JR	PO BOX 264	BEND	OR	977023260
ORTIZ JOANNA RAMIREZ &	1505 HIGHLAND RD	MARYDALE	MD	21649
RAMIREZ RAUL MIRANDA	12242 E 36TH PL	DATELAND	AZ	85333
MARTINEZ JORGE	PO BOX 3207	DATELAND	AZ	85367
STATE OF ARIZONA TAX DEED PARCEL	188 S MAIN ST	DATELAND	AZ	85333
TRIVETTE GREGORY	520 OVERHILL DR	YUMA	AZ	85364
MEMARIANFARD AKBAR	2401 KITTYHAWK DR	HENDERSONVILLE	NC	28792
COMER KENNETH EARL JR	2021 WILLOW BURY DR #A	PLANO	TX	75025
JACUA DONALD T & ALANNA J	232 N JEFFERSON STREET	LAS VEGAS	NV	89108
TIMMONS REVOCABLE TRUST 1995	5302 N 69TH PL	CASPER	WY	82601
ROBINSON DOROTHY 1/2	609 JOSEPHINE ST	PARADISE VALLEY	AZ	85253
AMAY/SCA GERRY D TRUST 10-22-08	PO BOX 1213	AUSTIN	TX	78704
PEDERSEN HANS & JEANETTE TRUST 6-23-03	423 HAMMERSTONE AVE	YARNELL	AZ	85362
HAYES WALTER	121 SUNRISE DRIVE	HAINES CITY	FL	338446306
ZELLER RICHARD L & LILLIAN JT	1512 HIGH ST	KILLEN	AL	35645
GIEBELHOUSE SUSAN &	3809 E GLENROSA ST	GREAT FALLS	MT	59405
WILKIE IRENE G &	2400 E BASELINE 55	PHOENIX	AZ	85018
KAYE JESSE W	1000 CITY RD U	APACHE JUNCTION	AZ	85219
FALCONE DAVE & SARA	16 B LUMBERJACK CIRCLE	STURGEON BAY	WI	54236
DAVIDSON BRUCE D & VIOLET	284 BARLOW CRESSENT	HORSHAM	PA	19044-1942
SUPENCHECK DENNIS ANTHONY TRUST 06-09-2010	19208 DOVE CREEK DR	WINNIPEG	MB	R2N 3W4
IRVIN KARL	1516 N F ST	TAMPA	FL	33647
GARRISON FAMILY REVOCABLE TRUST 6-11-01	6202 GREY FOX LN	STOCKTON	CA	952053515
PYWELL ROLLAND A & ALICE M	55 SCANYON ST	SPERRY	OK	74073
		NAMPA	ID	83651
HERNANDEZ LORENA LOPEZ JT				
MAYORQUIN ESTRELLITA EST OF &				
RENAUDIN DAVID M				
HERNANDEZ JOSEFINA JT				
PMB 221				
WESELMAN WAYNE E JT				
RODRIGUEZ RENATO GARCIA				
THOMAS LAWRENCE M				
RODRIGUEZ RENATO GARCIA				
ZAIMAN LYDIA 1/2				
STILES CHARLENE				
BAILLAND JACQUELINE JT				

ECKROTH LARRY P	20 SANFORD AVE	FL	327132963
DONALD E HOCTOR FAMILY AZ LTD PART	20727 N LA ENTRADA RD	AZ	85139
WYATT LAND HOLDINGS AZ LLC	8086 E SUNNYSIDE DR	AZ	85260
CARDENAS JESUS & ESMERLDA A	HC 1 BOX 38	AZ	85333
PACHECO JESUS	53629 W ORGAN PIPE RD	AZ	95139
DAVIS WILBUR R	5667 HILLS DALE BLVD SP 48	CA	95842
BIXLER CARL S	PO BOX 1884	AZ	85327
PRICKETT EVERETT E & IRENE J	PO BOX 584	CO	80452
ALDRIDGE CHEROKEE A	PO BOX 3039	CO	85333
MAGNONE MARIO & KATHLEEN R CARLEN JT ETAL	3545 LAKEFRONT DR	AL	36695
MILLER CHRISTOPHER	805 E EASON AVE	AZ	85326
DAVIS MARY ETAL JT	1027 UMSTEAD HOLLOW PL	NC	275138459
MCHENRY DAVID J TRUST 8-30-96	4711 REDBLUFF DR	IL	61107
HARPE BARBARA	PO BOX 9356	AZ	85068
SILVA THOMAS A & MARY E	60315 TEKAMPE RD	OR	97702
KARST BILL & ELAINE JT	5835 N 16TH ST	AZ	85016
CATRON JOHN & MILDRED	PO BOX 364	ID	83313
REED FRANK & KAREN	PO BOX 136	AK	99923
DE LA TORRE PEDRO CASTRO & ORALIA JT	PO BOX 3069	AZ	85333
BELTRAN MARTHA O	PO BOX 3153	AZ	85333
LARSEN TRUST 03-12-2013	201 2ND AVE SE	AZ	853392461
FAMULARO ANGELO & GLORIA	5662 CHARLESTON AVE	FL	32778
DISABLED AMERICAN VET AZ NON-PROFIT CORP	38 W DUNLAP AVE	AZ	85021
HARRIS ARTHUR	5515 CONNECTICUT AVE	CA	91942
DEFORREST ANTHONY	9002 S 12TH ST	AZ	85042
HERGENRETER BILLIE D & JOE JT	19778 MARGOLD DR	CO	80751
HORNBSY JEANNE	474 MICHELANGELO DR	IL	60440
BROOKS WARREN B & JUNE V	PO BOX 20400	CO	80308-3400
CASTILLO CRESCENCIO &	3050 S LIPAN SP 6	AZ	85367
MALEDON VICKI	5111 GLENTWORTH CT	CO	80110
MC DONALD GEORGE D & NANCY	PO BOX 167	TX	77084
HARRIS CATTLE CO	66420 E HIWAY 80	AZ	85242
COLLINS ROSS L & SANDRA JT	13357 E 45TH ST	AZ	85367
PACICCA ANTHONY J & PACICCA SUSAN P JT	PO BOX 4254	ID	83340
MARTINEZ TERESA A	18411 VALLEY BL NO 7	CA	92318
BUZZA RETA	100 SW 195TH UNIT 130	OR	97006
PETERSON DALE & PAMELA TRUST 10/17/02	1105 E BLANCO BLVD	NM	87413
WANG CHING-PI	1011 - 80TH AVE NE	WA	98039
REICH STEVEN L	5084 COMMON WEALTH	CA	91011
ADAMS WARNET & HALL DENNIS & DEBRA & SWEITZER WILLIAM D	PO BOX 3132	AZ	85333
TACKER JERRE ANN	PO BOX 3065	AZ	85333
BREWER LILLIAN	7904 HOLLY	MI	48116
DAMEWOOD FAMILY REAL PROPERTY TRUST 9-6-2011	PO BOX 1343	CO	81427
JENSEN BERNICE P	173 MCKNIGHT RD	CO	81427
STROSS CODY C ET AL	600 F ST STE 3 514	CA	95521
ANDERSON ALBERT V	1385 NO 450 EAST	CA	95521
MATLIN DAYNA TRUST 5-29-2014	7 AVENIDA VISTA GRANDE B7 142	UT	84010
GDC FARMS INC	PO BOX 3109	NM	87508
GARDENHIRE THOMAS & SARAH JT	PO BOX 23373	AZ	85333
A S LAND AZ LLC &	4852 S YALE AVE	AZ	86002
MAGANA OMAR A	11703 GURRYNE AVE	OK	74135
KLIMA LORRAINE A	7757 APPLETON ST	CA	90650
KELLEY TRUST 3-4-92	37 MESA VISTA DR	CA	92371
LEVIAS GARY LANE	3707 E ALDER ST	ID	83705
OSUNA RAMON SALOME & MARIA GUADALUPE JT	PO BOX 3054	WA	98122
BETTMANN JANA E & KEVIN JT	1514 CLOUD DR NE	AZ	85333
QUINTANA EMMA &	10320 S 17 DR	MN	55449
MILLER NADINE R	3005 W CRESCENT RIM DR UNIT 202	AZ	85037
MERCADO DE AMIGOS INC AZ CORP	HC 1 BOX 4C	ID	83706
BLESSUM LLOYD T &	530 MCGUIGAN RD	AZ	85333
GRINDE LINDA	16410 84TH ST NE STE D 231	SD	57783
ALDRIDGE JOHN & LISA	5344 W TARO	WA	98258
DONER EDWARD MICHAEL	10351 STATE HIGHWAY 37	AZ	85308
MURRAY AGNES &	1420 KATHLEEN WAY	NY	13658
RUPERT JIM	2401 S HENRY	IL	60007
		IA	51105
DEBARY	MARICOPA	FL	327132963
MARICOPA	SCOTTSDALE	AZ	85139
SCOTTSDALE	DATELAND	AZ	85260
DATELAND	MARICOPA	AZ	85333
MARICOPA	SACRAMENTO	CA	95139
SACRAMENTO	CAVE CREEK	AZ	95842
CAVE CREEK	IDAHO SPRINGS	CO	85327
IDAHO SPRINGS	DATELAND	CO	80452
DATELAND	MOBILE	AL	85333
MOBILE	BUCKEYE	AZ	36695
BUCKEYE	ROCKFORD	AZ	85326
ROCKFORD	CARY	NC	275138459
CARY	PHOENIX	IL	61107
PHOENIX	BEND	AZ	85068
BEND	PHOENIX	OR	97702
PHOENIX	BELLEVUE	AZ	85016
BELLEVUE	HYDER	ID	83313
HYDER	DATELAND	AK	99923
DATELAND	LAVEEN	AZ	85333
LAVEEN	ROSEAU	AZ	85333
ROSEAU	TAVARIS	AZ	853392461
TAVARIS	PHOENIX	MN	56751
PHOENIX	LA MESA	FL	32778
LA MESA	PHOENIX	AZ	85021
PHOENIX	STERLING	CA	91942
STERLING	BOLINGBROOK	AZ	85042
BOLINGBROOK	BOULDER	CO	80751
BOULDER	YUMA	IL	60440
YUMA	ENGLEWOOD	CO	80308-3400
ENGLEWOOD	HOUSTON	CO	80110
HOUSTON	QUEEN CREEK	TX	77084
QUEEN CREEK	DATELAND	AZ	85242
DATELAND	YUMA	AZ	85367
YUMA	KETCHUM	AZ	85367
KETCHUM	BLOOMINGTON	ID	83340
BLOOMINGTON	BEAVERTON	CA	92318
BEAVERTON	BLOOMFIELD	OR	97006
BLOOMFIELD	MEDINA	NM	87413
MEDINA	LA CANADA	WA	98039
LA CANADA	DATELAND	CA	91011
DATELAND	DATELAND	AZ	85333
DATELAND	BRIGHTON	AZ	85333
BRIGHTON	OURAY	MI	48116
OURAY	ST PAUL	CO	81427
ST PAUL	ARCATA	CO	81427
ARCATA	BOUNTIFUL	CA	95521
BOUNTIFUL	SANTA FE	CA	95521
SANTA FE	DATELAND	UT	84010
DATELAND	FLAGSTAFF	NM	87508
FLAGSTAFF	TULSA	AZ	85333
TULSA	NORWALK	AZ	86002
NORWALK	PHELAN	OK	74135
PHELAN	BOISE	CA	90650
BOISE	SEATTLE	CA	92371
SEATTLE	DATELAND	ID	83705
DATELAND	BLAINE	WA	98122
BLAINE	PHOENIX	AZ	85333
PHOENIX	BOISE	MM	55449
BOISE	DATELAND	MN	55449
DATELAND	SPEARFISH	AZ	85037
SPEARFISH	LAKE STEVENS	AZ	83706
LAKE STEVENS	GLENDALE	AZ	85333
GLENDALE	LISBON	WA	98258
LISBON	ELK GROVE VILLAGE	AZ	85308
ELK GROVE VILLAGE	SIoux CITY	NY	13658
SIoux CITY		IL	60007
		IA	51105

KADLEC KENNETH &  
MULLEN CECILIA P 1/2 INT &  
URBIETA AGUSTIN  
LOGAN FLOYD JR  
WALRAVEN TROY REVOCABLE TRUST 3-29-04  
PACHECO LUZ & MARIA ENRIQUETA JT  
HERNANDEZ MARTIN & ARACELY  
MORENO MICHELLE ANN  
HERRERA ERNESTINE L  
JOHNSON JERRY J & DELORIS  
GOHEEN PAUL L & CECELIA L  
IRVIN JOSEPH H & IRMA V JT  
TURNER WALLACE B  
MCDANIEL DELORA MAE &  
W R FAMILY LIMITED PARTNERSHIP  
FAZIO LAND HOLDINGS LLC & FAZIO DORA M FAMILY LLC  
COPPOLA VINCENT A & SANDRA J TR 4-7-08  
SMITH RUDGER G ESTATE  
HETTINGA HEIN & ELLEN TRUST  
HAFNER ERNEST R & OTTILIA C  
FUNDA LUMIR & ANTONIA  
LA LONDE ROBERT J II & ANNA M TRUST\*  
KNOFF CLARA MARIE  
LOONEY CHARLES S &  
BELTZ MARGARET C  
SCHUMACHER LYDIA I  
ISZLER NORLYN  
HANNEGREFS LESTER D  
MESSNER LEROY P & WILLADINE A  
TROM ORDNER S & EILEEN H  
MACIAS ROSELIA  
IRVIN J H & IRMA JT  
DOLL JOSEPH D & HELEN  
LEHMAN DELORES M TRUST 8-3-13  
FAIRBANKS LARRY & NORALEE TRUST  
PAPENFUSS CHARLES H ETAL  
KNIGHT MELVIN G & LIKA K  
LUND JAMES & TERRI  
THOMAS KEITH L & MAXINE E JT  
SCOTT GARY B  
DIAZ ISA  
RUCKLE BEN  
BEILKE LISA  
ROGNESS PETER E &  
CHAGAS WALLACE R  
SCHERR JOHN & DONNA JT  
DUNCKLEE ALLEN D & ROSANNA E  
MINDT ARNOLD W & JUANITA JT  
ROBERTS WILBURN C & EVA H\*  
BINGEL JAMES R & GERALDINE JT  
SAMORA CATALINA  
ROEMMICH LOUISE M  
FAIRBANKS REX W & GOLDA M  
GULBRANSON CLAYTON M & ELVIS A JT  
ASHCRAFT CLAUDE J &  
GALVAN EUDAVE GONZALO  
SCHIMMELPENNING LARRY &  
REICHENBERG HAROLD & ADELINE  
COOPER ANDREA L & JEFFREY JT  
FRANKLIN TREVOR  
OLSON GRANT K & SHIRLEY C JT  
MAC DONALD JAMES W  
BOBILLO RAYMOND  
BOZARTH MARY LYNN  
ROACH WILLIAM & CORA  
DE GROOT JOYCE &  
SCHWARTZ KATHLEEN & RONALD TRUST

MULLEN JOHN ROBIN 1/2 INT  
22397 BULLSON RD  
PO BOX 2246  
2651 S 16TH DR  
7564 FLOWING STREAM DR  
45306.313TH ST  
PO BOX 3064  
PO BOX 3179  
637 DESERT ROSE ST  
1635 W 3RD ST LOT 7  
9413 140TH AVE NE  
733 S E 11TH AVE  
PO BOX 3147  
10858 RUEDA CT  
PO BOX 664  
PO BOX 2016  
11188 S HAVANA AVE  
1950 E 24TH ST NO 24  
1822 N TUSCORY WAY  
PO BOX 51630  
3003 NO CENTRAL AVE  
834 JUNIPER DR  
1924 14TH AVE NW  
2005-12 BURTON ST  
5252 TRADING POST TRAIL  
PO BOX 305  
4685 43RD AVE SE  
PO BOX 478  
762 FILLER AVE  
3203 N 15TH ST UNIT 128  
PO BOX 3205  
PO BOX 3137  
3765 COUNTY RD 84  
1228 E MC FARLAND AVE  
233 WOODRIDGE DR  
12843 SOUTH ST  
11395 1ST W  
2222 CHERRY LN  
5076 LEONARD RD SP 32  
12574 E 40TH ST  
2136 S 27TH AVE  
2360 I ST  
31 S 63RD ST STE 2  
5 RIVERSIDE DRIVE SPC 12A  
PO BOX 3257  
107 N 10TH ST  
15960 93RD ST NE  
30167 US HIGHWAY 12  
1223 W 13TH ST  
27423 E EUCLID DR  
429 N 41ST PL  
3225 QUEEN AVE  
3966 N GATEWAY DR  
504 S I ST  
2645 COOK AVE  
PO BOX 3163  
13600 72ND ST N W  
421 7TH AVE NE  
1108 RIDGEGROVE DR W  
379 MADISON ST  
PO BOX 51  
7650 HIGHWAY 1804 S  
605 S WOODLAND AVE  
23 SEMINOLE CT  
5510 3RD AVE NW  
2772 PFEIFFER WOODS DR APT 4308  
337 S GOLFWOOD CT

MOUNT VERNON  
AMHERST  
YUMA  
LAS VEGAS  
MECKLING  
DATELAND  
DATELAND  
IMPERIAL  
YUMA  
CAVALIER  
HILLSBORO  
DATELAND  
SAN DIEGO  
PARMA  
YUMA  
YUMA  
PLEASANT GROVE  
IRVINE  
PHOENIX  
LOGAN  
DATELAND  
E GRAND FORKS  
SAN DIEGO  
AFPON  
STREETER  
STREETER  
CREEDE  
TWIN FALLS  
GRAND JUNCTION  
DATELAND  
DATELAND  
NEW SALEM  
COEUR D ALENE  
TWIN FALLS  
GARDAR  
STAR  
EMMETT  
GRANTS PASS  
YUMA  
YUMA  
SACRAMENTO  
MESA  
NEW YORK  
DATELAND  
OAKES  
DRAYTON  
SELBY  
BUSBY  
AURORA  
PHOENIX  
SLATYON  
POCATELLO  
RUPERT  
BILLINGS  
DATELAND  
MINOT  
HAZEN  
PALM HARBOR  
WINNIPEG  
UPSOLA  
BISMARCK  
MICHIGAN CITY  
SAN RAMON  
SEATTLE  
GRAND RAPIDS  
PUEBLO WEST

98274 WA  
01004 MA  
86364 AZ  
89131 NV  
57044 SD  
85333 AZ  
86333 AZ  
92251 CA  
85364 AZ  
58220 ND  
97123 OR  
85333 AZ  
92124 CA  
83660 ID  
86366 AZ  
85365 AZ  
85365 AZ  
84062 UT  
92619 CA  
85012 AZ  
84321 UT  
85333 AZ  
56721 MN  
92111 CA  
55001 MN  
58483 ND  
58483 ND  
81130 CO  
83301 ID  
81506 CO  
85333 AZ  
85333 AZ  
58563 ND  
83814 ND  
83301 ID  
58227 ND  
83669 ID  
83617 ID  
97527 OR  
85367 AZ  
853646019 AZ  
95816 CA  
85206 AZ  
10023 NY  
853333257 AZ  
58474 ND  
58225 ND  
57472 SD  
83318 ID  
800162508 CO  
850086417 AZ  
56172 MN  
83204 ID  
83350 ID  
59102 MT  
85333 AZ  
58701 ND  
58545 ND  
34683 FL  
R3J 1H9 MB  
56384 MN  
58504 ND  
46360 IN  
94583 CA  
981072701 WA  
49512 MI  
81007 CO





JONES COLBY C	PO BOX 22400	HONOLULU	HI	96823
WOOD RICHARD PAUL II	3224 N 80TH ST	MILWAUKEE	WI	53222
VESTA F CUMMINGS	PO BOX 731	HEBER	AZ	85928
SILVER CANYON NURSERIES INC AZ CORP	2647 E SOUTHERN AVE	PHOENIX	AZ	85082-1115
TRYON JOHN	HC 1 BOX 10	DATLAND	AZ	85333
HYDER PARK LLC	22900 VALLEY AVE	WILLIAMS	IN	47470
ERIKSEN SHERRY G & SCOTT DAVID E JT	2678 NE HUCKLEBERRY CT	PRINEVILLE	OR	97754
PALADIN PROPERTIES & INV AZ LLC	1930 W DURANGO-C	PHOENIX	AZ	85009
DOUGLAS ANA	7405 W SOLANO DR S	GLENDALE	AZ	853034731
LAMEY RANDI ALL JT	PO BOX 899	LIBBY	MT	59923
LAMEY WILLIAM S & VIONA M &	PO BOX 72232	LAS VEGAS	NV	89170
MESSING JOHN G	24567 S 195TH WAY	QUEEN CREEK	AZ	85142
KLEINE BETTY J ET AL	PO BOX 483	TACNA	AZ	85352
BOUCK ROBERT	8027 W CHARTER RD	PEORIA	AZ	85381
WILSON BRYAN T	PO BOX 42892	TUCSON	AZ	85717
EL NINO FARMS LLC AZ	PO BOX 3203	DATLAND	AZ	85333
HOMACK JAMES E	415 E LAKE SAMMAMISH RD SE	SAMMAMISH	WA	98074
BARTON JAMES H BYPASS TRUST	PO BOX 72277	YUMA	AZ	85365
FERGUSON LOUISE TRUST 7-7-10	28445 N 47TH ST	CAVE CREEK	AZ	85331
KIT YVONNE N 1/2INT	2100 VALLEY VIEW PARKWAY UNIT #1412	EL DORADO HILLS	CA	95762
ESCOBEDO ALBERT & NORMA JEAN	PO BOX 3160	DATLAND	AZ	85333
LLANES JUAN CASTRO	2815 NORKENZIE RD	EUGENE	OR	97408
BARE NORMA L	251 22ND AVE NE	CALGARY	AB	T2E 1T6
MITCHELL BRIAN C	16813 N MEADOW PARK DR	SUN CITY	AZ	85351
ZVARA GLENDA N	935 CRESTHAVEN	LOS ANGELES	CA	90042
JONES WILLIAM I	1368 S 7TH AVE	YUMA	AZ	85364
THODE THOMAS & MARY TRUST 3-7-08	1960 W 15TH ST	YUMA	AZ	85364
MORENO MOSES S & ANGELA P TRUST 8-11-2014 ET AL	PO BOX 14009	OKLAHOMA CITY	OK	73113
NIX PHYLLIS L	PO BOX 16166	PHOENIX	AZ	85011
CARDINAL CAPITAL CO AZ LTD PARTNERSHIP	9337 E RANCH DR	YUMA	AZ	85365
WILLIAMS BAILEY A ETAL	HC 1 BOX 16	DATLAND	AZ	85333
FULLER SHIRLEY E 2/3 INT &	PO BOX 65	HOT SPRINGS	SD	57757-0055
LUCHAU BRYON & PAM	29330 WATSON RD	ROMOLAND	CA	92585
VIDRIO PETRA	3535 N NEVADA ST	CHANDLER	AZ	85225
BUELL WALTER J AND SHARON L JT	2555 E CAMELBACK RD UNIT 800	PHOENIX	AZ	85016
ANGLE JERRY J TRUST 6-11-93 &	1955 N VAL VISTA DR STE 107	MESA	AZ	85213
SAAGER MICHAEL	27796 INCA #54	GLENDALE	AZ	85307
SINGH RAMAN DEEP & KIRANJOT KAUR	356 FOXENWOOD DR	MISSION VIEJO	CA	92692
KOZMATA JOS W	PO BOX 282	SANTA MARIA	CA	93455
OPENSHAW VENEDA	PO BOX 2334	FRENCH CAMP	CA	95231
HENRY PHILLIP A & IRENE M	190 MOON DR	BOULDER CREEK	CA	95006
FOOTCREEK CORPORATION AZ CORP AND	2375 E CAMELBACK RD UNIT 300	FAIRBANKS	AK	99707
YOUNG WILLIAM D & MADGE E	PO BOX 5142	GLENDALE	AZ	85312
LARGENT WALTER	6903 HUGH DR	PANAMA CITY	FL	32404
ROBERSON REUBEN W & JODIE W JT	13602 N SUNSET DR	FOUNTAIN HILLS	AZ	85268
SCHEER JOINT REVOKABLE LIVING TRUST 1995	2026 E LAUREL CIRCLE	MESA	AZ	85210
MOWRY G JEFF & MARSHA S	1048 MOUNTAIN RD	MESA	AZ	85207
LFL PROPERTIES AZ LLC	64409 S 539TH AVE	DATLAND	AZ	85333
SCOTT HENRY	240 N CENTER ST	MESA	AZ	85201
CONDE RUBEN	59150 W OLD AGUA CALIENTE RD	DATLAND	AZ	85333
EVANS JACK E JR	23221 E COLONY CT	LIBERTY LAKE	WA	99019
HEIL PAUL S/S	3001 W INDIAN SCHOOL RD 140	PHOENIX	AZ	85016
FLAA LIVING TRUST 1-26-05	9703 W 38TH PLACE	YUMA	AZ	85365
VERNA YUMA/HYDER ROAD 100 AZ LLC	26640 ROWELL HILL RD	SWEET HOME	OR	97386
VOIGT KATHLEEN	1800 E DYER RD	SANTA ANA	CA	92705
ABBOTT PHILIP F	251 22ND AVE N E	CALGARY	AB	T2E 1T6
DRAKE ROSA JULIE A ETAL	49735 W PETERS & NALL RD	MARICOPA	AZ	85239
BAJA LAND COMPANY INC	3431 N 16TH DR	PHOENIX	AZ	85015
DANIELS MICHAEL L FAMILY TRUST 12-19-11	PO BOX 3797	PARKER	CO	80134
MERKEL JOHN C & MARY L FAMILY TR 9-11-99	348 EASTPORT DOCK RD	MONROE	TN	38573
POTTHOFF RONALD B	76236 CACTUS CANYON	DATLAND	AZ	85333
REESER RAYMOND	226 CHIVALRY LN	BALL GROUND	GA	30107
HEIL LAURA J	PO BOX 32040	PHOENIX	AZ	85064
SHALLIT CHARLES BRADSHAW	318 JANICE ST	ENDICOTT	NY	13760
DRAKE ROSA JULIE A ETAL	1334 HUNTER DR	REDLANDS	CA	92373
BAJA LAND COMPANY INC	8701 S TUMBLING H RANCH PLACE	VAIL	AZ	85641

HAYNES BARBARA JOANNE	4700 E MAIN SP 1888	MESA	AZ	85205
BARNES HERMAN E INC	1155 N CENTRAL AVE SPC 209	GLENDALE	CA	91202
YATES JACKIE DIANE	1752 W GREENLEAF AVE	ANAHEIM	CA	92801
VESS JACK K & BEULUH M	PO BOX 562	SOUTH PEKIN	IL	61564
HAND MERLE I S/S	PO BOX 296	OCEAN PARK	WA	98640
SCHROEDER FRED G & DOROTHY R	515 W TEAL AVE	SPOKANE	WA	99218
SMITH ORDEN E & SHERINA	1864 E WINCHESTER PL	CHANDLER	AZ	85249
MARKS DENNIS N & NANCY S	1800 JEFFERY LANE	CARMICHAEL	CA	95608
BASSETT FARMS AZ LLC	3567 E SUNRISE DR SP 219	TUCSON	AZ	85718
DRAGSETH POWNING BARBARA JO	HC 60 BOX 150A	COPPER CENTER	AK	99573
STILES PATRICIA	2111 W IRVINE RD	PHOENIX	AZ	85086
WHITE WING RANCH NORTH LLC	350 W WASHINGTON ST STE 600	TEMPE	AZ	852811496
BIGGS MARGARET A	2213 W DEL ORO CIRCLE	MESA	AZ	85202
CARPENTER JOHN R & PATRICIA M	22900 VALEY AVE	WILLIAMS	IN	47470
KONZIOLA JOSEPH D & PAMELA JT	1815 SMALLBROOK DR	TROY	MI	48098
HAYES FRANK F	8372 DEEPVIEW DR	HUNTINGTON BEACH	CA	92646
WATT'S PAM & DOUGLAS JT	68 1875 PUUNUI ST	WAIKOLOA	HI	96743
GAFNEY TRUST A 8-31-81	18755 W BERNARDO DR #1325	SAN DIEGO	CA	92127
REBAR GILBERT L & SHARON L &	PO BOX 406	FENTON	MI	48430
KLOS KAREN ANNE	3603 N CAMPBELL AVE SUITE 101	TUCSON	AZ	85719
MACK RANDOLPH	PO BOX 901	EMIGRANT	MT	59027
RUSH TARK & DORIE &	1357 S HETTEM A ST	YUMA	AZ	85364
NEGARAN HOBIE &	30080 ASTOR ST	FARMINGTON HILLS	MI	48336
BRAVO JOSE &	17639 S AVENUE 3E	YUMA	AZ	85365
INVESTOR SYNDICATE LLC	14403 MARTA DE FORTUNA	YUMA	AZ	85367
FIELDS MICHAEL E & ELAINE	1402 N SHORT BEACH CT	STRASBURG	CO	80136
KOZMATA JOSEPH W	27796 INCA	MISSION VIEJO	CA	92692
LINAREZ CRISTOBAL	16290 S AVENUE B 1/2	SOMERTON	AZ	85350
ANDREASKY DECLARATION OF TRUST 6-30-93*	820 S REED RD	CHINO VALLEY	AZ	86323
BLAKESLEY LEONARD E JR	PO BOX 12075	MARINA DEL REY	CA	90281
UNIVERSAL ANESTHESIA ASSOCIATES PLLC DEFINED BENEFIT PL 1-1-11	PO BOX 6331	SCOTTSDALE	AZ	85261
STONE RIDGE CHURCH AZ CORP	6300 E 24TH ST	YUMA	AZ	85365
SOUTHARD KENNETH A	PO BOX 1437	VENETA	OR	97487
PETKOVICH CYNTHIA S IRA & WALLER BRUCE & PICKET POST LLC	8929 N 181ST AVE	WADDELL	AZ	85355
CALDWELL DAVID L & CAROL A TRUST 6-6-02	1744 E CLAVARY RD	NEW RIVER	AZ	85087
GILBERT LAMBERT O TRUST	8548 VINE VALLEY DR	SUN VALLEY	CA	91352
JOHN/HYDER LAND AZ LTD PARTNERSHIP	9404 W MISSOURI	GLENDALE	AZ	85305
DOUGHTY ROBERT W & JUDY C JT	PO BOX 11651	CASA GRANDE	AZ	851301651
ROBLES ADALBERTO & MARIA L TR 7-25-07	1103 W 37TH ST	YUMA	AZ	85384
HYPO REVOCABLE TRUST 9-19-09	25518 W WHYMAN ST	BUCKEYE	AZ	85326
SHERWOOD REED S & JAMIE 1/2 &	3325 N VAL VISTA	MESA	AZ	85213
CANTOR IRWIN	1808 PALMCROFT WAY NW	PHOENIX	AZ	85007
FRY BRADLEY M & KIMBERLY A JT	14223 N 90TH DR	PEORIA	AZ	85381
FARR PARTNERSHIP	PO BOX 213	UPLAND	CA	91785
PEREZ TRUST 2-2-94	10004 WALNUT AVE	SOUTHGATE	CA	90280
DAVIS DOUG & TERESA JT	PO BOX 8868	WETASKIWIN	AB	T9A 2G5
CHAMBERS JACKLYNN TRUST 3-17-98 1/3 &	7752 N GREGORY AVE	FRESNO	CA	93722
CIBULSKIS FAMILY LLC	4 N 151 COUNTRY VIEW LN	ELBURN	IL	60119
CHARTER PROPERTIES ME CORP	37 A ST	SOUTH PORTLAND	ME	04106
STEPHENS DOUGLAS R	18607 S AVENUE 3 1/2 E	YUMA	AZ	85365
CHARTER PROPERTIES ME CORP	PO BOX 189	WELLINGTON	CO	80549
STEPHENS DOUGLAS R	9803 NW 29TH AVE	VANCOUVER	WA	98665
CHARTER PROPERTIES ME CORP	76187 CHICAGO LN	DATLAND	WA	98665
CHARTER PROPERTIES ME CORP	4332 MANHATTAN AVE	BROOKLYN	AZ	85333
CHARTER PROPERTIES ME CORP	77390 SIOUX DR	INDIAN WELLS	NY	11224
CHARTER PROPERTIES ME CORP	HC 1 BOX 206	DATLAND	CA	92210
CHARTER PROPERTIES ME CORP	9824 E CACTUS RD	DATLAND	AZ	85333
CHARTER PROPERTIES ME CORP	PO BOX 554	SCOTTSDALE	AZ	85260
CHARTER PROPERTIES ME CORP	PO BOX 53999	MOYIE SPRINGS	ID	83845
CHARTER PROPERTIES ME CORP	15 S NEELY ST	PHOENIX	AZ	85072-3999
CHARTER PROPERTIES ME CORP	PO BOX 3144	GILBERT	AZ	852335829
CHARTER PROPERTIES ME CORP	873 CANYON RIDGE WAY SPC 20	DATLAND	AZ	85333
CHARTER PROPERTIES ME CORP	11202 SWAMP LAKE RD	MIDVALE	AZ	85333
CHARTER PROPERTIES ME CORP	76395 W CACTUS CANYON RD	WILLIAMS	UT	84047
CHARTER PROPERTIES ME CORP	39005 N 21ST AVE	DATLAND	IN	47470
CHARTER PROPERTIES ME CORP	HC 1 BOX 39	DATLAND	AZ	85333
CHARTER PROPERTIES ME CORP	2211 E CAMELBACK ROAD SPC 1202	DATLAND	AZ	85333
CHARTER PROPERTIES ME CORP		PHOENIX	AZ	85016

MICHEL'S MARK & TERESA  
 BENTLEY 2005 CALEB & CASE SHIRLEY ELLIS TRUST & ELLIS RONALD B  
 DATELAND ARIZ INV CO INC  
 WILLIS DIANE ET AL  
 RUSCH BRIAN D & DIANE M TRUST  
 ARONSTAM FAMILY LTD PART  
 MARTIN ROBERT GALE TRUST 12-11-2007  
 COCOPAH NURSERIES OF AZ INC  
 GPR CAPITAL LLC  
 FIDELITY SECURITY LIFE INS CO INC  
 SIETZ LAWRENCE S  
 NORTON HAROLD L & ALICE JANIE TR 3-15-00  
 WESTGATE GARY  
 LAKER FAMILY TRUST 10-15-04  
 SMITH DONALD E & MARIA TERESA JT  
 SALMON STEPHEN K & HILARY K JT  
 STANDISH JOHNSON CO  
 HYDER-HOW 1 LLC AZ LLC  
 TERRY ORYLN & FLORA JT  
 GERRITS KAREN LUNDIN  
 REES WAYNE M  
 PEREZ VALARIE P &  
 BRERETON CHRIS  
 BECKETT MONA RENE  
 ALFARO JOSE & RUIZ MARIA DEL CARMEN &  
 GIANNIS GINA D SIS  
 WEST N E & DOROTHY M JT  
 SCOTT M BETTY SIS  
 BARRON JEROME & MARY F  
 DIAZ JAQUELINE & JORGE L  
 BONO ETHEL C  
 SVOBODA DONALD MICHAEL  
 ENCISO EUGENIO M & SYLVIA TRUST 2-19-2015  
 MANDRACCHIA AUGUSTUS F & MARY JT  
 ACCURATE EXCAVATION LLC  
 BISCOTTE ANTHONY & J  
 CHRISTENSEN ROBERT F TRUSTEE  
 CAMPOY BETTY J  
 STARR DANIEL R  
 HYDER SOUTHERN BAPTIST MISSION  
 BLESSING J A  
 DURETTE REJEAN  
 HOOFARD CORRIE R TRUST 7-29-05  
 BYERS SHARON RAE &  
 FLORIG ALBERT J & MARY ROSE  
 MUSZYNSKI EDWARD J & VICTORIA P TRUST  
 CRAWFORD KIANA R  
 CROFT KAM LALEEN  
 FORTNEY VORGINIA L TRUST 11-19-99  
 ASHCRAFT JOHNNY R SS  
 HELCAMP ELIMAR T & VIRGINIA  
 HATTAWAY JERRY W & ROSIE YANES TRUST 05-20-2012  
 GUILLEAUME MICHAEL J  
 CANTARA JOSEPH R  
 THOMAS TOMMY H & THOMAS FARLON WYATT & THOMAS RENITA LOLA ALL JT  
 NIXON EARL R & JUNE B JT  
 SMALLEY CLAYTON  
 GARCIA JOSE ALFREDO &  
 ERB ALICE LEOLA  
 AUSTIN CAROL  
 DEBASU RICIELDA MORALES  
 ALMAGUER MONIQUE  
 BEAVER ROLLIN L  
 BEZONA ROBERT F AND  
 CAUGHLAN DELFINA  
 FULLER GORDON H & MARIA H  
 ORINES JUAN & IGNACIO

17989 W HAPPY VALLEY RD  
 1850 ALICE ST  
 220 S E 106TH AVE  
 1808 34TH ST NW  
 450 FLOWER DR  
 5930 SOLAR POINT LN  
 362 SCHWEERS LN  
 81-880 ARIUS AVE  
 5235 E SOUTHERN AVE STE D106-211  
 3130 BRDWAY  
 1573 FRANKLIN ST  
 14225 N RALSTON RD  
 2481 S 29TH ST  
 406 E CENTER ST  
 21817 OCOTILLO WAY  
 33 OFFICE PARK UNIT A216  
 PO BOX 5055  
 135 HWY M  
 1763 MONTANE DR E  
 N 7781 LAKESHORE DR  
 PO BOX 1814  
 1353 TERRA NOVA BLVD  
 11852 E HUNT HWY  
 1338 E ELLIS DR  
 2220 S 72ND LN  
 1149 N 92ND ST SP 298  
 120 GORDON WAY  
 1997 CLEARVIEW AVE  
 2987 LAUREL ST  
 6456 BALBOA  
 2436 ASHEN LIGHT DR  
 2212 WESTRIDGE  
 1071 SPAZIER AVE  
 3 E GERMAN TOWN PIKE  
 4833 E 30TH PL  
 2537 RIVER DR  
 3105 CALVERY RD  
 67155 E COUNTY 8 1/3 ST N  
 1823 NORTH SHORE DR  
 1000 E 24TH ST  
 RT 3  
 873 HOWARDS RD STE 29  
 570 CROYDEN LN  
 311 CHINOOK STREET  
 670 LANTERN LN  
 315 WEXFORD DR  
 7915 S EMERSON AVE STE B BOX 128  
 125 W 21ST ST  
 5923 E 96TH COURT  
 75 E CALLE PUENTE AZUL  
 50 LEXINGTON AVE APT 19A  
 522 PUCKETT LAKE RD  
 27820 N 111TH WAY  
 2855 FARM BROOK TRAIL  
 6118 W CHAPAY ST  
 1336 CATALINA RD  
 PO BOX 18023  
 HC 1 BOX 21C  
 PO BOX 3010  
 2330 S AVENUE A APT H-1  
 PO BOX 3161  
 PO BOX 3043  
 11200 S SIERRITA MTN RD #200  
 6465 CHURCH RD  
 PO BOX 3128  
 59132 W HIGHLINE RD  
 PO BOX 31687

WITTMANN  
 OAKLAND  
 PORTLAND  
 CANTON  
 FOLSOM  
 HOUSTON  
 MT PLEASANT  
 INDI  
 MESA  
 KANSAS CITY  
 ANN ARBOR  
 DATELAND  
 YUMA  
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 CLEAR LAKE  
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MACK STANLEY S S/S*	1425 NE 4TH PL	FL	33909
BISBO MARVIN SS	776 COUNTY RT 11	NY	13167
RODRIGUEZ VICTOR D	2167 A HEMS COURT	CA	92231
JULIUS KENNETH	PO BOX 3076	AZ	85333
ARNOLD ROBERT L & PAULETTE A JT	102 W EVERGREEN CIR	AZ	85541
ARIZONA PUBLIC SERVICE COMPANY	ARIZONA PUBLIC SE PO BOX 53999 MS 9505	AZ	850723999
DATLAND ARIZONA INV CO	19007 CARSON DR	TX	79927
BOWER SARAH L	16 ORBIT LN	NY	12533
THOMPSON LOUIS JR	PO BOX 3133	AZ	85333
HEIL PAUL &	1411 CATALINA RD	AZ	85333
MARTINEZ ANGELICA	13403 S 218TH AVE	AZ	85326
CONWELL JERRY S TRUST 12-8-09	6106 B ESSEX HOUSE SQUARE	VA	22310
CONRAD EUGENE ROGER	10938 PRESIDENT DR N E	VA	56434
HARRIS JOHN F & BARBARA J	14391 CHALFONT DR	VA	20169
KNOX PAULINE B TRUST 6-1-99	7088 BUCHANAN AVE	CA	92404
THOMAS GRETCHEN K	2240 W 17TH PL	CA	853645145
GAVILANES ANSELMO P & EDELMIRA P JT	PO BOX 3223	AZ	85333
JACOBSON COMPANIES INC AZ CORP	AGRICULTURAL SUE 1334 S 5TH AVE	AZ	85364
BOAN TEDDY	PO BOX 3240	AZ	85333
ARVIZU JUAN DAVID & MARIA DE LA LUZ JT	44 W CALLE 2ND	AZ	85333
ODLE GARY DEAN	PO BOX 46	CA	92249
ZECCA SUZAN ANN	1106 W PARK ST #280	CA	92249
AMOS GORDON & SHARON	PO BOX 132	MT	56069
IMORGAN FAMILY TRUST	PO BOX 132	MT	59047
ESKER WILLIAM D & BARBARA L JT	3512 NE 169TH AVE	WA	98682
KRIENKE EILEEN	3423 DRIFTWOOD	WA	838690132
HARVEY MICHAEL D	2265 NE 33RD AVE	AZ	85912
SNYDER CEPHA G	15703 BUDD RD	CA	93455
FUGLEBERG TONI &	PO BOX 600	OR	97212
PIERCE NANCY H	607 27TH ST NW	MI	49017
PIERCE SCOTT T	11039 ACHILLES WAY	TX	77563
ROLLAND PASCAL &	11755 N AVE 76 E	TX	77563
HOCTOR SHAFFER LEAH TRUST 1-8-76	AGRICULTURAL SUE 20727 N LA ENDRADA	CA	92126
SILVERIA DEBORAH H	4674 SENATOR	AZ	85329
HEIL PAUL A 98.15 &	1855 S SANDARIO RD	AZ	86303
AP LAND INVESTMENT LLC	14437 N 55TH PL	AZ	85743
CASTILLO ANGEL ET AL	PO BOX 1284	AZ	85254
HENDERSON JANICE	11543 N AVE 76E	AZ	85326
PHARES NICOLE	HCR 1 BOX 45	AZ	85333
CONDE FERNANDO & CLEMENTINA	HC 1 BOX 36	AZ	85333
RODRIGUEZ TITO C & BERTHA G JT	1793 W 34TH PL	AZ	85365
DATLAND AZ LLC	8523 S STANLEY RD	AZ	85284
POMPA SIMON & CELIA JT	PO BOX 2926	AZ	85350
CHAPPELL BYRON & ROSALIE JT	142 CRAMPTON COVE	AZ	85284
LUCKY DAY LLC	4521 W MISSOURI AVE	TX	78737
MARTINEZ FAMILY AZ LLC	3388 W COUNTY 17TH ST	AZ	85301
SCUDERIA TRAVERSO LTD LIABILITY PTNR &	9085 E FRIESS DR	AZ	85360
MAGO NARESH & RUCHIRA JT	2765 W DEL RIO PL	AZ	85260
ANAND SAMEER KUMAR & NEERA JT &	2765 W DEL RIO PLACE	AZ	85224
MILLAR MARY EUGENIA	35 LOPEZ AVE	AZ	94116
KATARIA SUBHASH & KAMLESH KATARIA JT	1515 E CAPTAIN DREYFUS AVE	CA	94116
RIDER BETSY	330 W 24TH ST	AZ	85022
ARIZONA TELEPHONE CO	ARIZONA TELEPHON 525 JUNCTION ROAD	AZ	85384
MEJIA FRANCISCO	PO BOX 1151	WI	537170000
HERNANDEZ ANGELICA	PO BOX 3046	AZ	85366
HEIL PAUL A	59150 OLD AGUA CALIENTE RD	AZ	85333
ZOSLOW JACK & ROSA JT	PO BOX 25535	AZ	85333
RYMILL SAMUEL W & LOIS   TRUST 1-22-02	PO BOX 399	AZ	85367
KRAFFT SUE	4043 HILLVIEW RD	KS	66083
MCNEELY BETTY LOU	16628 MILITARY RD S	CA	93455
SUSURAS NICK JR	11427 N SUN VALLEY DR	WA	98188
COPELAND CECIL L & V NAOMI JT	3645 W COLUMBIA RD	AZ	85351
FRISCHE SCOTT & ROXANNE LEE JT	AGRICULTURAL SUE 927 W SAHUARO DR	MI	48854
MILLER WILSON D	1011 S IRONTON SP 111	AZ	85029
MCMANUS WANDA G	25793 CEDAR MESA RD	CO	80012
MARTINEZ GUADALUPE	3130 E ALVORD RD	CO	81413
		AZ	85706

GLAZE OSWALD A & AUDREY P \*

SCHALLMANN MIKE &

HOPKINS TERRI &

PHARES NICOLE

MARTIN LARRY & JOYCE 1.85

SABHARWAL ASHISH & APARNA JT

ARIZONA TELEPHONE CO

PAULA GUADALUPE

AGUA CALIENTE SOLAR LLC	211 CARNEGIE CENTER	PRINCETON	NJ	085400000
RIDER LYLE ET AL	833 E PLAZA CIR STE 200	YUMA	AZ	85365
FLORANCE JOHN D 1/2	2640 SW MAPLE LN	PORTLAND	OR	97225
GRABOWSKI WALTER & VIOLET	3803 BIRCH	LUPTON	MI	48635
IMBROUK SAMY M &	5114 LIGHT BLUFF CT	SPRING	TX	77373
WEBER BRUCE W & CONNIE S JT	3880 STOCKTON HILL SUITE 103 BOX 148	KINGMAN	AZ	86409
GRINDE JAMES & LINDA JT	8222 SHOEMAKER RD	MARYSVILLE	WA	98271
ALLEMEERSCH PAUL & SYLVIA	2056 TOPPING ST	TRAIL	BC	V1R 4GS
DENICK DENNIS J & JANET L	2912 N WHITEHALL RD	NORRISTOWN	PA	19403
WRIGHT JOHN N & JANE R JT	923 N HERITAGE	MESA	AZ	85201
BRIDGES VOIGT CECILIA R TRUST	12303 NORLAIN AVE	DOWNEY	CA	90242
LA RUE LOUISE C & DONNA L JT	9506 N MISSION VALLEY PL	TUCSON	AZ	85743
AMERICAN DREAM LANDS AZ LLC	PO BOX 1712	FLAGSTAFF	AZ	86002
BROWN NORMA JEAN	3257 N 3600 E	KIMBERLY	ID	83341
FUGO ROBERT	PO BOX 187	FREDERICK	PA	19435
ITTER DENNIS D	5436 PINEDALE CT	RAPID CITY	SD	57702
CRANDALL JANE C DECLARATION TRS 11-20-96	203 N VALERIE	SANTA MARIA	CA	93454
HYDER VALLEY SUPPLY AZ LLC	19310 N AVE 72 E	DATLAND	AZ	85333
STEGER MARY RUTH	1013 KING DR	BARTLESVILLE	OK	74006
PONCE RAMON F & ADRIANA JT	3088 S 47TH AVE	YUMA	AZ	85364
RANGEL ALVARO & MIRIAM S	8816 S AVENIDA DEL PRADO SP 11	YUMA	AZ	85365
ETTINGER SUZANNE UND 1/2 INT	PO BOX 213 E 18906 MT VIEW RD	NEWMAN LAKE	WA	99025
NEELEY GENEVIVE &	12361 N AVE 76E	DATLAND	AZ	85333
BLUE RIDGE CO LLC	PO BOX 68657	SALT LAKE CITY	UT	84165
HOLBROOK TIMOTHY R & JAQUELINE S JT	34723 PILOT POINT NE	KINGSTON	WA	98346
BROWN LINDA & DALE JT	2781 COUNTY RD 1300 N	EL PASO	IL	61738
BABIARS HELEN M	11403 E VIA MONTANA	YUMA	AZ	85365
MARTINEZ FAMILY LLC	PO BOX 1750	SOMERTON	AZ	85350
JENKINSON DEBORAH ANN	7601 ARIZONA AVE	LOS ANGELES	CA	90045
LITTLE J KENNETH FAMILY 1976 TRUST C	27169 E EL MACERO DR	EL MACERO	CA	95618
MESA DEO R	631 E 3RD ST	RIALTO	CA	92376
BESWICK DOROTHY M	134 RIDGEFIELD RD	NEWTOWN SQUARE	PA	19073
HAUSE HARRY BURT	PO DRAWER 1600	BEEVILLE	TX	78104
MASSINO DONALD P & WILMA H	2752 MAPLEWOOD MEWS	AUDUBON	PA	19403
BUTLER BRETT	PO BOX 50477	PARKS	AZ	86018
MCKELVEY CAROLYN J MALOUFF	593 S 4TH AVE	YUMA	AZ	85364
NEINAST VICTOR LIVING TRUST 2-08-01	37798 E COUNTY 81/2 ST	WELLTON	AZ	85356
KLOS HENRY A & VERNA M &	3700 BONAIRE PL	EDMOND	OK	73013
LAUTERBACH LOUISE &	321 EMPIRE CT	GRASS VALLEY	CA	95945
SPROUL DALE T LEAH	8125 E 3RD AVE	MESA	AZ	85208
ODONNELL DENNIS	PO BOX 190	LINDEN	VA	22642
JOHNSON F MICHAEL	3321 E RED BRIDGE RD UNIT 3	KANSAS CITY	MO	64137
HAGENMAIER JANICE F	1305 CATALINA AV	SEAL BEACH	CA	90740
WOLGAMOT FORREST L	3543 W 5TH ST	YUMA	AZ	85364
MUTZIG MIKE M & MARGARET R JT	3781 LAKEVIEW DR	SHINGLE SPRINGS	CA	95682
MOBILE AMERICA CONST INC AZ CORP	PO BOX 11790	CHANDLER	AZ	85248
TORREZ TRUST 04-08-98	24 N 10TH ST	PHOENIX	AZ	85034
COOPER GEORGIA K TRUST 06-06-96 1/2	PO BOX 11917	MARINA DEL REY	CA	90295
B & K MANAGEMENT LTD	3124 W AVON WY	LAVEEN	AZ	85339
VEGA UBALDO M & MARIA G 2/3 &	2688 OASIS ST	IMPERIAL	CA	92251
SMITH DEREK	PO BOX 39	FLORA VISTA	NM	87415
BARRY BARBARA J	PO BOX 1824	CHINO HILLS	CA	91709-0061
WESTLAND WATER AZ LLC	13237 N AVE 76 E	DATLAND	AZ	85333
NEWMAN MARGARET ANN	PO BOX 3155	DATLAND	AZ	853333155
QUIRING LIVING TRUST 10-28-97	5041 ELGAROSE RD	ROSEBURG	OR	97471 9741
YUMA WERDEN TRUST	225 EAST 7TH ST	CARROLL	IA	51401
HENDERSON JANICE L	11543 N AVENUE 76 E	DATLAND	AZ	85333
HEIL PAUL 98.15	4308 S 3150 WEST	WEST VALLEY CITY	UT	84119
DETERMAN TOM	2750 SOUTH PACIFIC AVENUE STE D	YUMA	AZ	85365
GAUSIN GERARDO M & LORENA JT	9348 E BUCKBOARD ST	YUMA	AZ	85365
WELLTON LAND COMPANY AZ LLC	3064 S AVE B	YUMA	AZ	85364
SORENSEN BETTE JEAN S/S	2803 TAMARACK TRL	YUMA	AZ	85364
MOORE KAY L	5326 GLENN ELLEN DR	YUMA	AZ	85364
DEVANEY GREGORY LEE	PO BOX 736	EUGENE	OR	97402
GARAST KATHLEEN	14220 N 61ST ST	ARCATA	CA	95521
JOHNSON LAURENCE H & JAQUA JT LIVING TRUST 10-12-99 &	2040 WHITEWING AVE	SCOTTSDALE	AZ	85254
HEUBEL WALTER H JR & EUNICE M	4800 GALICE RD	YUMA	AZ	85364
		MERLIN	OR	97532

BLOOMFIELD DIANE	PO BOX 3146	DATELAND	85333
CLARK MARY BARBER 1/2	7223 Twin Ponds Drive	Manitowoc	54220
CLARK STEPHEN L & CHELSIE E JT	228 PARK ST	WI	80751
BURNSTAD ALVIN K TRUST	15818 136TH AVENUE CT E	WA	983749687
CENDROSKI BARNEY L & FLORENCE	510 TIMBER WOODS CT	WA	21054
COOPER RAYMOND L & BARBARA B	501 S 2ND AVE	MD	21054
MONTGOMERY HARVEY J & DOLORES C JT	PO BOX 3250	IL	60942
IRVIN JOSEPH AND IRMA	1838 CAMINO DEL CALLE PO BOX 31470	AZ	85333
PORTER JO ANN	10359 RILEY CT	AZ	85333
NIERENGARTEN RICHARD F & RUBY A*	226 HAMPSHIRE DR	ID	83709
GOWIN HAROLD M & RUBY A JT	800-16TH AVE SE APT 13	MIN	55750
COOK ROBIN G	44032 MORNING STAR CT	ND	58701
TURNER TERRY M & LINDA L JT	7300 QUITTINGDALE ST	CO	80107
ALEXANDERSEN ERLING & JENNY	PO BOX 441	CA	93309
PEQUEJAT MARINA L	8428 PASEO DEL OCASO	WA	98354
TRAVERS FAMILY TRUST 2-26-93	5209 BIG RIVER AVE	CA	92037
SCHRAAD JOE & SHARON JT	308 E 19	NV	89130
DIETERICHS ANNA M	PO BOX 637	OK	74055
NIESSEN RANDALL LAWRENCE	8743 SW JEFFERSON VIEW PL	WA	98321
HAMILTON RICHARD J	PO BOX 3138	OR	97760
PAOLELLO DAVID	1023 GLEN ROSE RD	OR	97333
SPINOLA ROBERT II	5140 STAG HILL PL	AZ	85333
PERGANDE JAMES & JOAN JT	1522 BRIGHTON	TX	76401
CORN MARGARET L	6265 N PORTSMOUTH	CA	93446
BEZONA FAMILY TRUST &	THOMAS BENJAMIN N & PAMELA K JT	CA	85333
ZINGG DONALD & VIOLA JT	3412 W 2ND ST	AZ	85333
KUNTZ GARY & JUDY	1025 MAIN ST	ID	83714
PAPENFUSS EARL	19100 E 18 TERR SO	WA	98226
NELSON AUGUST J & FRIEDA R JT	9136 CENTRAL AVE	WA	98221
HARTMAN VIRGINIA H	43 ANGUS DR	IA	506481011
MESSNER LEROY P & WILLADINE JT	8403 LOUISA RD	MO	64057
VAN BECK FLOYD & ESTHER* JT	762 FILER AV	IN	46240
RICE JUDITH UND 1/3 INT	W 3861 HWY Q	MT	59230
HOLMAN LARRY JAMES	102 128TH AVE NW	IL	61048
KELLER JAMES K & FRANCES M	1901 YOUMANS LN	ID	83301
SPEARS ROY L & MARGARET	30314 CONN CREEK CIR	WI	54937
HACKNEY FAMILY LIVING TRS 12-7-00	2363 JOHN BEERS RD	ND	58703
LIPPS F L	12215 INTERLAAKEN DR SW	ID	83843
MC CULLOCH ANNE MERLINE JACOBS	68398 313TH S	CA	92563-4843
SCHNEIDER JOSEPH W & MARY C	1395 SURREY PARK DR	MI	49127
DAVEY JAMES V & ROSANNA TRUST 12-29-08	4240 TERI LN	WA	98498
NOBLIN LOLA P CAUGHLAN	10778 RIDERWOOD TERRACE UNIT D	OK	74467
CHRISTOPH MATTHEW EDWARD	5323 BAYSHORE BLVD UNIT C	FL	32128-3765
MORAN MICHAEL	3622 N NEW ENGLAND AVE	NE	68502
ROJAS JORGE	PO BOX 3045	AZ	85364
RODRIGUEZ GILBERT & LOIS RENEE JT	PO BOX 3008	CA	92071
CLIFFTON DAVID AND NANCY TRUST 10-14-08	PO BOX 3092	CA	33611
ATHA ROBERT W II & LOU TRUST 12-28-1989	5407 VIA DEL VALLE	FL	33611
MAYNES CHRISTOPHER D & ANNETTE M	PO BOX 3182	IL	60634
REYNAGA MEDINA ARMONDO	4631 W 19TH PL	AZ	85333
HERRERA VICENTE DURAN & MARIA REFUGIO JT	PO BOX 3198	AZ	85333
NEWELL WILLIAM M & HERIBERTA	PO BOX 3111	CA	90505
ROOT KEVIN THOMAS	1146 E MICHIGAN AVE	AZ	85364
MARTINDALE LYMAN L & CLEORA	255 BELFAST RD	AZ	85333
MUNOZ MICHAEL R & CONNIE G JT	8645 LONGWOOD ST	AZ	85333
ASH DORIS	210 N CEDAR	NV	89015
SWEITZER BENJAMIN O & MARY L TRUST 10-6-1997	103 ULIBARRI LN	CA	92126
BUTLER EDNA E &	3122 CORRIB DR	OR	97013
HOLEWINSKI MARK JOHN	813 9TH ST	NM	87413
JONES JEFFREY F & JUNE M KRSTOFF TRUST	2771 IRONWOOD AVE	FL	32308
ORABUENA REUBEN	8963 W NORTHVIEW AVE	WI	54952
MUNCK AZ LLC	3549 GOLDEN RIDGE NE	CA	93442
ROEHM JOHN J & LINDA S	2039 W 263RD ST	AZ	85305
QUINTERO SANTOS R & ARMENIA T	2416 N 28TH ST	MI	49341
RENTERIA IRMA R &	12662 E 41ST PL	CA	90717
HARPER IVA MC CONNELL	PO BOX 15524	AZ	85008
		AZ	85367
		AZ	85060

WILLIAMS DONALD E & NANCY M	5396 BLACKHAWK DR	DANVILLE	CA	94506
GREEN REVOCABLE LIVING TRUST 2-14-97	6387 MOTHER LODGE DR STE 78	PLACERVILLE	CA	95667
RODGERS MERLE JEANNETTE	1625 XENIA AVE N	GOLDEN VALLEY	MT	55422
HAMILTON BRUCE M & FAY DEE	5845 JOHNSON RD	EAST HELENA	MT	59635
LOPEZ EUSEBIO T	4940 SUNNYSIDE RD SE UNIT C1	SALEM	OR	97302
PALMER DONALD E & WANDA J JT	PO BOX 363	MERIDIAN	ID	83642
LAFADY BRUCE M &	56851 HONDO	YUCCA VALLEY	CA	92284
BENNETT JENNIE K LIVING TRUST 4-23-01	303 E BOND ST	ATTICA	IN	47918
QUINTANA JESUS & ELVIRA	PO BOX 3006	DATLAND	AZ	85333
BRADDOCK BRENDA SUE ET AL	1245 N BERENDO ST	LOS ANGELES	CA	900291601
BRILL JAMES & SHEILA JT	6459 STATE RD 233	ROME	NY	13440
BLOOM JAMES 1/2	9131 N 48TH PL	PARADISE VALLEY	AZ	85253
BACKEN-ANDERSEN KATHERINE J TRUST 3-8-2013	117 3RD AVENUE EAST	WEST FARGO	ND	58078
CONDIE DALE & SHARON	6511 S CLEMATIS WAY	WEST JORDON	UT	84084
MARCOTT PAUL E	4787 LIME RIDGE RD	WEST BEND	WI	53095
KENCKE CHESTER A	2703 HAYDEN WAY	BOISE	ID	83705
TRUMBO BELTRAN F & AILEEN	PO BOX 1566	MUKILTEO	WA	98275
JOHNSON RODNEY B & BETTY J	5802 CROW VALLEY PARK DR	DAVENPORT	IA	52807
PINSON JAMES G	2231 E MULBERRY DR	PHOENIX	AZ	85016
SPROWLES RONALD V ET AL	40420 SKI PARK RD	EATONVILLE	WA	98328
ORWICK ALFRED JOHN & EVELYN FAY	2356 VIA DI SILVIO	TUCSON	AZ	85741
DYKEMA MERRILL & DONNA	22835 RUM RIVER BLVD BOX 725	ST FRANCIS	MIN	55070
DUARTE EFREN &	PO BOX 3075	DATLAND	AZ	85333
ESPINOZA GUILLERMO & ROSA	PO BOX 3228	DATLAND	AZ	85333
BENJAMIN SINHARIB & MARY T	916 W CITRUS WAY	DATLAND	AZ	85248
COPPLE GORDON B ESTATE	1232 W 16TH ST	CHANDLER	AZ	85281
MCDOWELL & MALONE LLC	9010 EASE RANGE RIDER TRAIL	TEMPE	AZ	85207
MAGARRO VICTOR	PO BOX 3209	DATLAND	AZ	85333
COLLINS JUANITA &	PO BOX 308	ARCOLA	MS	38722
GALVAN VIRGINIA OJEDA &	PO BOX 3174	DATLAND	AZ	85333
DOUE GEORGE	PO BOX 425477	SAN FRANCISCO	CA	94142
SERAFINI WILLIAM & JUNE JT	3416 SALLMAKER LN	DELTONA	FL	32725
CEDERHOLM FRED B & MARJORIE J	1185 W HANCOCK DR	PLANO	TX	75023
CHAFFIN LEMUAL A	8729 GRAVES AVE LOT 5A	SANTEE	CA	92071
SOLOMOS LOUIS P JR	PO BOX 3169	DATLAND	CO	85333-3169
NICHOLS ARLENE & LAURENCE JT	30521/2 WEDGEWOOD DR	GRAND JUNCTION	CO	81504
ZAMORA JOSE M & ZOILA JT*	HC 1 BOX 3093	DATLAND	AZ	85333
LEONHARD GEORGE	PO BOX 443	MANSON	WA	98831
DICE BERNADINE	18 BEAR CUB CT	CANON CITY	CO	81212
KLINE INVESTMENTS LLC	1650 HIGHWAY 6 STE STE 470	SUGAR LAND	TX	77478
STELLWAG ARTHUR W & DORIS I	413 SOUTHWICK DR	FAYETTEVILLE	NC	28303
ROTER VERNON A & SHIRLEY	965 2ND ST	MARION	IA	52302
ALMAGUER ROBERTO ANGEL	PO BOX 12698	CASA GRANDE	AZ	851302771
EBENS CAROL ANNE & RANDALL EUGENE	3034 RAINBOW CT	SAFETY HARBOR	FL	34695
SUPERIOR SYSTEMS ENG & MFG CORP	14640-B INDUSTRY CIRCLE	LA MIRADA	CA	90638
FOLINO MIKE	3716 W 1ST STREET #3	LOS ANGELES	CA	90004
STRICKLIN WAYNE H	1619 S 7TH AVE	YUMA	AZ	85364
FRENCH VERNON E & ILONKA JT	PO BOX 549	JASPER	AR	72641
SILVER MARK E	5406 44TH AVE SW	SEATTLE	WA	98136
PINKERTON TRUST 11-4-92	107 N SENATE ST	CHANDLER	AZ	85225
RICKWALL DIETER R & IRIS F TRUST 2-14-03	540 APOSTLE DR	HENDERSON	NV	89015
WELSCH JOHN J & PATRICIA A	1018 MASSENA	WAUKEGAN	IL	60085
ROHER FAMILY TRUST R-1	PO BOX 1705	WRANGELL	AK	99929
TALLABAS ALBERT ROMERO	9036 W KERBY AVE	TOLLESON	AZ	85353
VEGA SAMUEL &	PO BOX 566	EL CENTRO	CA	92244
KIRKLAND PATRICIA SCHWERY	4304 GREND AVE APT 6	GURNEE	IL	60031
ELLIOTT HAROLD L & MARION TRUST 2-25-93	2888 VISTA LN	YUMA	AZ	85365
KIMIA LIMITED COMPANY AZ LLC	5410 E PLACITA DEL MAR	TUCSON	AZ	85718
DATLAND TRAVEL CENTER LLC	1737 S AVENUE 64 E	DATLAND	AZ	85333
DOUBLE J II AZ LLC ET AL	701 N 44TH ST	PHOENIX	AZ	85719
KLOS KAREN TRUST 7-07-98	3503 N CAMPBELL AVE STE 101	TUCSON	AZ	85719
GILBERT GEORGE	PO BOX 26405	YUMA	AZ	85367
BERRY DOUGLAS	4660 S DEFRAME ST	MORRISON	CO	804651009
SERPA MANUEL J	PO BOX 2588	PORT ARANSAS	TX	78373
HEMINGWAY GUY	3970 LOBOLOY BAY DR LOT 301	NAPLES	FL	34114-3594
HERNANDEZ CECILIA &	68 LA PALOMA DR	LOS ALAMOS	NM	87544
PIEKARSKI NORBERT & ANGELINE	7400 W FLAMINGO RD UNIT 2096	LAS VEGAS	NV	89147

BERRY SCOTT  
BLIZARD JAMES J S/S  
CHRISTENSEN LAWRENCE B & M L  
SARGUS GEORGE J & MARY A  
PEMBERTHY WILLIAM & POHS ELOISE ANN &  
PRESTHOLT CHRIS &  
MELLAND JERAULD B

PRESTHOLT RON & JAN

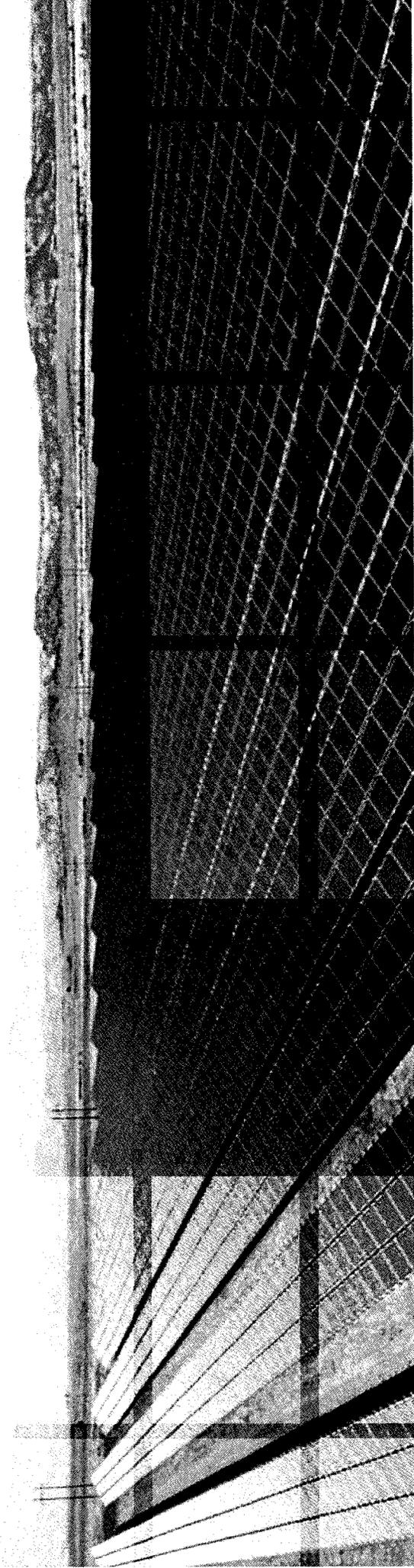
5030 S GALAPAGO  
3704 RIDGEMONT WAY  
3724 PINE RD NE UNIT 16  
1858 WHITEHALL RD  
4537 QUITMAN ST  
29743 184TH AVE SE  
15012 FOX BRANCH LANE

ENGLEWOOD  
BELLINGHAM  
BREMERTON  
ANNAPOLIS  
DENVER  
COVINGTON  
MID LOTHIAN

CO  
WA  
WA  
MD  
CO  
WA  
VA

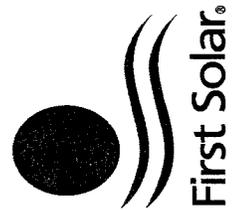
80110  
98226  
98310  
21409  
80212  
98042  
23112

**Meeting Materials**

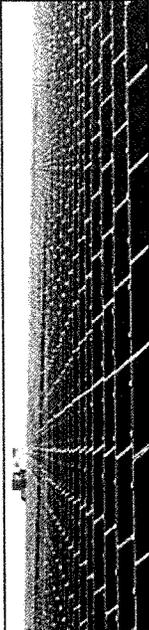


# White Wing Gen-Tie Project Public Meeting

June 7, 2016



# First Solar at a Glance



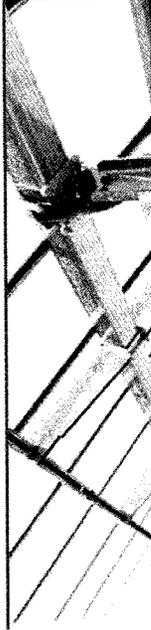
Over 8GW installed worldwide and over 3GW contracted pipeline



Cost competitive with conventional energy sources today



Partner of choice for leading utilities and global power buyers



Driving innovation across entire value chain and plant solution



Strongest financial stability & bankability in the industry



Founded in 1999 and publicly traded on Nasdaq (FSLR)

# First Solar's Integrated Solar Power Solutions



Module  
Manufacturing



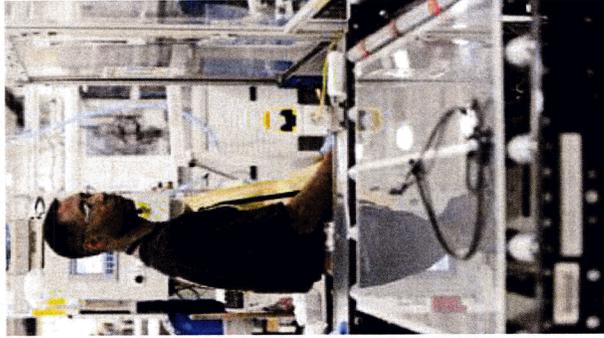
Project  
Development



Engineering,  
Procurement,  
Construction



Operations &  
Maintenance



Clean, Affordable, Sustainable Utility-Scale PV

# North American Projects Pipeline Overview



## Projects Sold/Under Contract

Project/Location	MW AC <sup>1</sup>	PPA	Owner/ Purchaser
Topaz, California	550	PG&E	Mid American (MA)
Sunlight, California	550	PG&E/SCE	NextEra/GE
AV Solar Ranch One	230	PG&E	Exelon
Copper Mtn. 2, NV	150	PG&E	Sempra <sup>2</sup>
Imperial Energy Center S.	130	SDG&E	Tenaska <sup>2</sup>
Alpine, California	66	PG&E	NRG <sup>2</sup>
Silver State North, NV	50	NV Energy	Enbridge
Walpole, Ontario	20	OPA <sup>4</sup>	GE/Plutonic
Belmont, Ontario	20	OPA <sup>4</sup>	GE/Plutonic
Mount St. Mary's	16	UOG <sup>3</sup>	Constellation
Amherstburg 1, Ontario	10	OPA <sup>4</sup>	GE/Plutonic
Campo Verde, California	139	SDG&E	Southern Company

<sup>2</sup> EPC contract or partner developed project

<sup>3</sup> UOG = Utility Owned Generation

<sup>4</sup> OPA = Ontario Power Authority RESOP program

## In Development/PPA

Project/Location	MW AC	PPA	Owner
Stateline, California	300	SCE	
Silver State South, NV	250	SCE	
Cuyama	40	PG&E	
Lost Hills	32	PG&E	
Kingbird	40	SCPPA	
California Flats	150	PG&E	

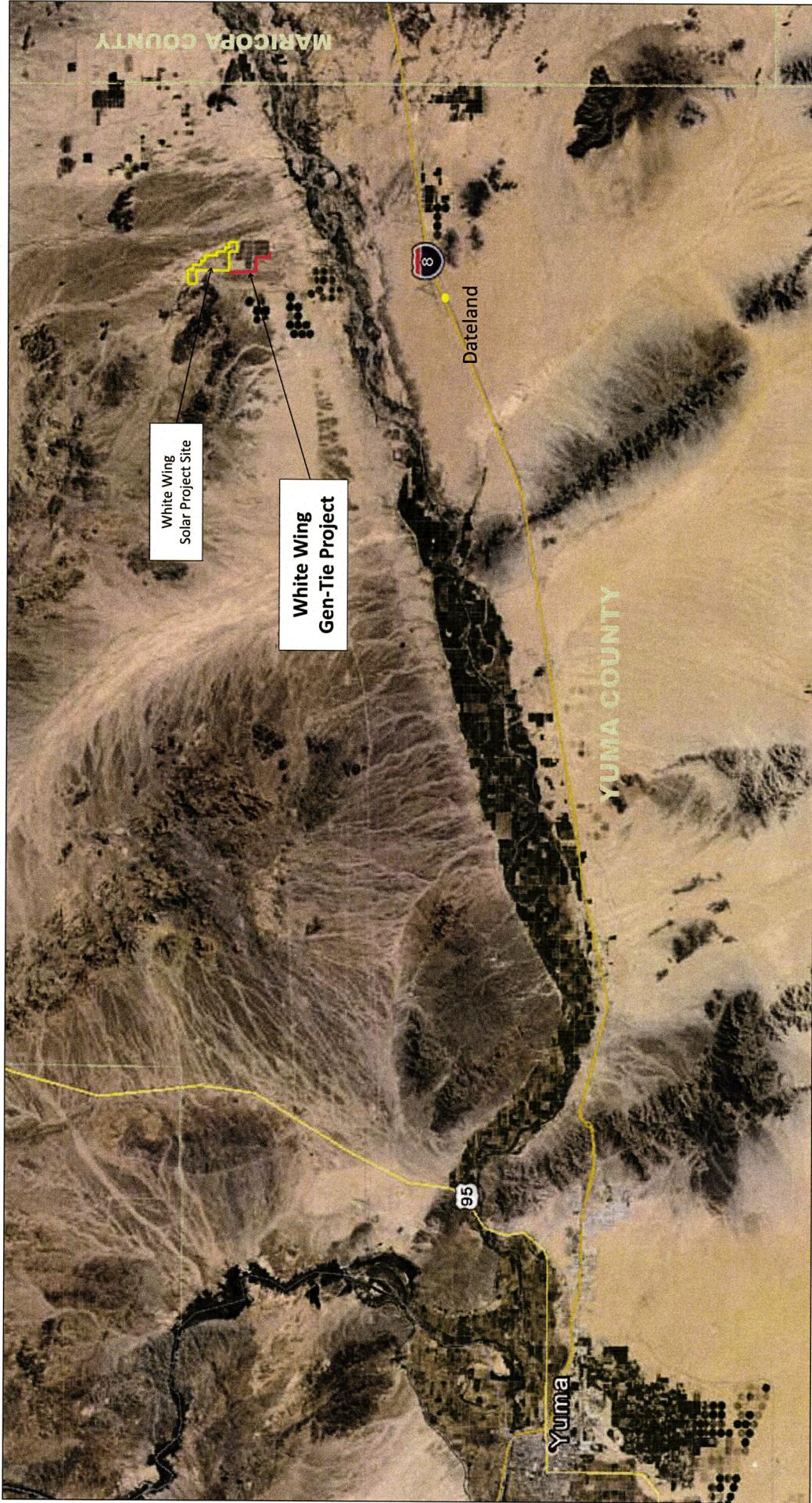
## Completed

Project/Location	MW AC	PPA	Owner
<b>Agua Caliente, AZ</b>	290	PG&E	NRG / MA
Santa Teresa, NM	20	El Paso	NRG <sup>2</sup>
Amherstburg 2, Ontario	15	OPA <sup>4</sup>	Enbridge
Tilbury, Ontario	5	OPA <sup>4</sup>	Enbridge
PNM 1-4, NM	17	UOG <sup>3</sup>	PNM
<b>Paloma, Gila Bend, AZ</b>	17	UOG <sup>3</sup>	APS
PNM 5, NM	5	UOG <sup>3</sup>	PNM
St. Clair, Ontario	40	OPA <sup>4</sup>	NextEra
Cimmaron, NM	30	Tri-State	Southern

# White Wing Gen-Tie Project Overview

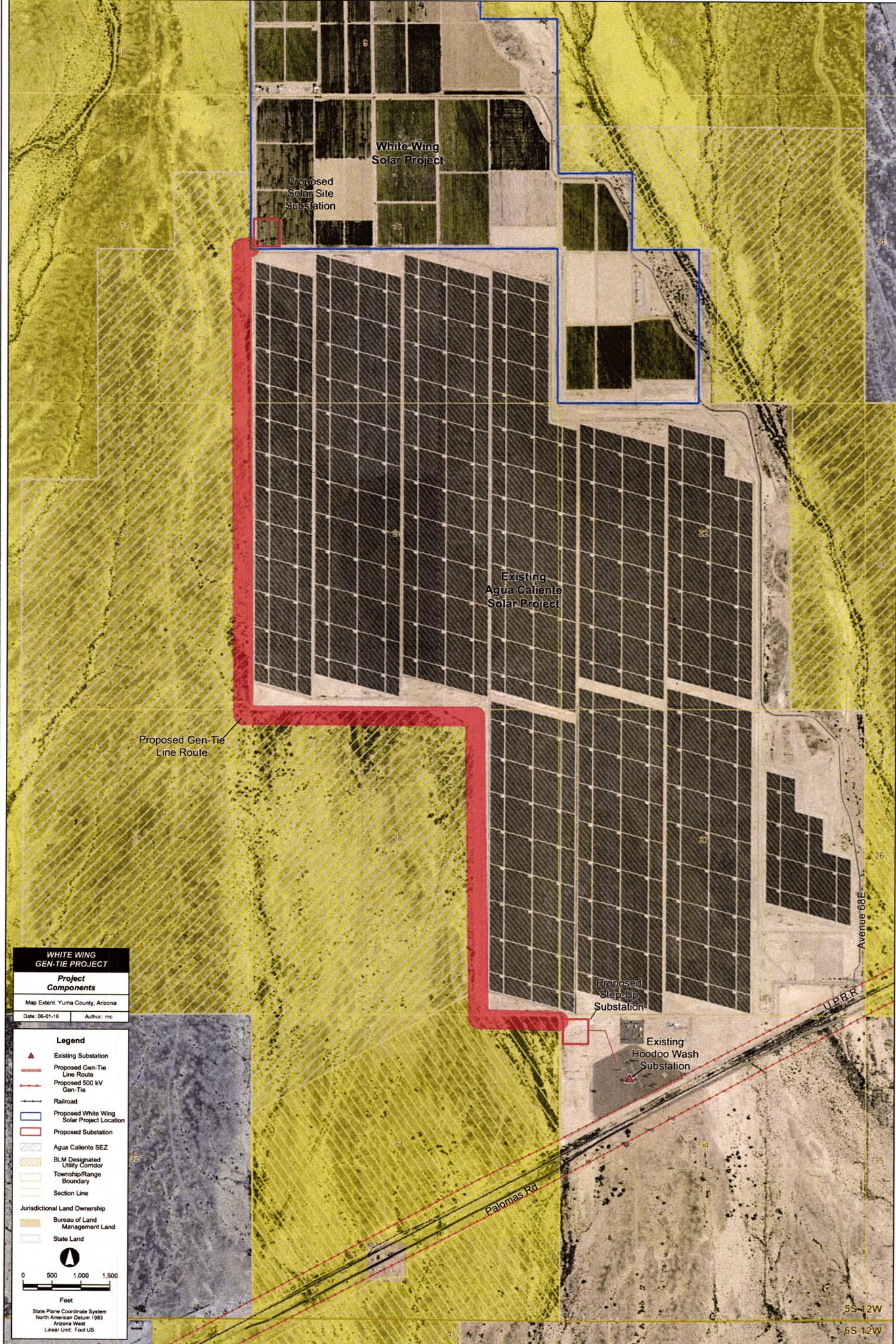


- **Overview**
  - Will interconnect 210 MW White Wing Solar Project to regional electric grid at existing Hoodoo Wash Substation
- **Location**
  - Gen-Tie Line would be located on BLM-managed lands
    - Within a designated solar energy zone (SEZ) and designated utility corridor
    - Adjacent to western side of existing Agua Caliente Solar Project
  - End-points located on private lands
    - These lands have Special Use Permits (SUPs) issued by County for solar / transmission uses
- **End-Points**
  - Northern terminus – Solar Site Substation in SW corner of White Wing Solar Project site
  - Southern terminus – existing Hoodoo Wash Substation
  - Possible Step-Up Substation near Hoodoo Wash Substation
- **Permits Required for Gen-Tie**
  - Certificate of Environmental Compatibility (CEC) from Arizona Corporation Commission (ACC)
  - Right-of-Way (ROW) Grant from BLM



## White Wing Gen-Tie Project

Project Location



**WHITE WING  
GEN-TIE PROJECT**

**Project  
Components**

Map Extent: Yuma County, Arizona  
Date: 06-01-16 Author: mc

**Legend**

- ▲ Existing Substation
- Proposed Gen-Tie Line Route
- Proposed 500 kV Gen-Tie
- Railroad
- Proposed White Wing Solar Project Location
- Proposed Substation
- Agua Caliente SEZ
- BLM Designated Utility Corridor
- Township/Range Boundary
- Section Line
- Jurisdictional Land Ownership**
- Bureau of Land Management Land
- State Land

0 500 1,000 1,500  
Feet

State Plane Coordinate System  
North American Datum 1983  
Arizona West  
Linear Unit: Foot US

5S 12W  
6S 12W

**Meeting Attendance and Comments**

## **WHITE WING GEN-TIE OPEN HOUSE SUMMARY**

**Tuesday June 7, 2016**

**4:30-6:30 PM**

**Dateland Elementary School  
1300 S. Ave 64 E, Dateland, AZ 85333**

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Total of 34 attendees of which 24 signed in as guests. Ten other individuals arrived before the open house began and were provided information on the 800# to inquire about future employment.

- 24 attendees signed as guests
- 14 individuals seeking employment
- 2 BLM employees attended
- 5 Dateland School employees attended
- 1 local business owner attended
- 2 left no organization/specific interest

Fourteen (14) comments cards were submitted:

- 9 were requesting job information
- 2 were interested in selling land(parcel)
- 2 stated no comments
- 1 comment on lack of invitation received

	Name	Phone	E Mail Address	Organization
1				
2	Rodolphe ALMAGUER	4282873567	rodal37@orange.com	
3				
4				
5				
6				
7				
8				
9				
10				
11				

	Name	Phone	E Mail Address	Organization
1	<i>Lauren</i>	<i>928:454 860</i>		
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

	Name	Phone	E Mail Address	Organization
1	John Freeman	619-284-3337		
2	PATRICIA DORING	702. <del>759</del> 331-4584	Pat.L.Doring@NSN.COM.	
3	Ana Flores	928 580-8746		Dateland School
4	Raymundo Anquabo	928 276-6097	rayanqdo@gmail.com	
5	Jose Svarez	928 271160		
6	Hermes Galvez	928 243 6920	hermes.galvez311@yahoo.com	
7	Marna Jones	(928)261-6691	m.jones@hgarisd.org	Dateland School
8	Edgar Lopez	(928) 726 2931	chicky2piolase@gmail.com	Dateland School
9	Miguel Ortega	(928) 919-1930	Mike_S.Y@hotmail.com	Dateland School
10	Bill Werner	602 417 9444	wernerbillm@gmail.com	ASLVM
11	Patricia Malcom			

	Name	Phone	E Mail Address	Organization
1	JOSÉ ARIZAGA	(928) 488-1547	JOSELUISARIZAGACARILLO@gmail.com	
2	Raymundo Valenzuela	(928) 388-8052	raymundo.11@hotmail.com	
3	Cristian Angulo	(928) 285-3421		
4	Jeff Hoctor	(570) 568-3020		
5	Michael Hoctor	520 840-8898	jmkryrdad@yahoo.com	
6	Zoila Zamora	(928) 2572410		
7	Edie Arreola	602-417-9505	earreola@bhm.gov	BHM
8	FRANCIS W VALENZUELA	928-315-2556		
9	John "Pat" Kourj	928-454-2242	pkourj@hyderisd.org	DuPont School
10	Pepper Beard	928 454 2229		
11	Carlos Lopez	928-261-1128	oasisnvpark@bepes.net	oasisnv park,
			carlos489@gmail.com	

# WHITE WING GEN-TIE PROJECT

## Comment Form

Thank you for your interest in this Project. Please complete this form and provide any comments about the Project.

Please Print

jinkyreddf@yahoo.com  
E-mail address

Michael Hector  
Name

Organization (If Applicable)

333 E. Monte Way  
Street Address

Daytime Phone No. (optional)

Phoenix  
City

AZ  
State

85042  
Zip Code

Please provide any comments about the Project:

Guila County records  
16630003  
16619009  
16619008  
16637005  
15305003  
15305008  
15305007  
15305006

Thank you for your time and interest.

# WHITE WING GEN-TIE PROJECT

## Comment Form

Thank you for your interest in this Project. Please complete this form and provide any comments about the Project.

Please Print

HVAP@AOL.COM  
E-mail address

Jeffrey Hoctor  
Name

Organization (If Applicable)

#6151 N. WARDEN RD  
Street Address

520 568 2945 520 568  
Daytime Phone No. (optional)

MARICOPA  
City

AZ.  
State

85139  
Zip Code

Please provide any comments about the Project:

HAVE PROPERTY FOR FUTURE PROJECTS WOULD BE WILLING TO  
TALK 4 MILE S. OF I8 AT AZ TEE RD - 690 ACRES  
+ PROPERTY JUST W. OF HYDER + N. OF  
RAILROAD TRACKS 120 ACRES  
THE PROPERTIES ARE OWNED BY MY FATHER  
DON HOCTOR

Thank you for your time and interest.

# WHITE WING GEN-TIE PROJECT

## Comment Form

**Thank you for your interest in this Project. Please complete this form and provide any comments about the Project.**

Please Print

FRANCISCO NAVARRO  
Name

P.O. BOX 5513  
Street Address

YUMA  
City

AZ  
State

E-mail address

Organization (If Applicable)

928-315-2556  
Daytime Phone No. (optional)

85364  
Zip Code

**Please provide any comments about the Project:**

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**Thank you for your time and interest.**

**WHITE WING GEN-TIE PROJECT**

**Comment Form**

**Thank you for your interest in this Project. Please complete this form and provide any comments about the Project.**

Please Print

oasisrvpark@hughes.net  
E-mail address

Pepper Beard / Oasis RV Park  
Name

Oasis RV Park at Aztec Hills  
Organization (If Applicable)

1481 S Ave 66E / 1401 S Ave 66E  
Street Address

360 840 0455  
928-454-2229 ← oasis  
Daytime Phone No. (optional)

Dateland  
City

AZ  
State

85333  
Zip Code

**Please provide any comments about the Project:**

Research why they don't  
receive mailer.

Several others in vicinity don't receive

**Thank you for your time and interest.**

# WHITE WING GEN-TIE PROJECT

## Comment Form

**Thank you for your interest in this Project. Please complete this form and provide any comments about the Project.**

Please Print

Carlose 489@gmail.com  
E-mail address

Carlos E. Lopez  
Name

\_\_\_\_\_  
Organization (If Applicable)

1443 Santa Fe Dr.  
Street Address

928.261.1128  
Daytime Phone No. (optional)

San Luis  
City

AZ  
State

85399  
Zip Code

**Please provide any comments about the Project:**

I'm excited to work for this new  
project. I have experience on construction

**Thank you for your time and interest.**

# WHITE WING GEN-TIE PROJECT

## Comment Form

**Thank you for your interest in this Project. Please complete this form and provide any comments about the Project.**

Please Print

Zoila Zamora

Name

E-mail address

(928) 257 2410

Organization (If Applicable)

604N Sombrero Rd #112

Street Address

Daytime Phone No. (optional)

Date land

AZ

85333

City

State

Zip Code

**Please provide any comments about the Project:**

First Solar es una compañía buena  
y yo vivo en Date land, me gustaria  
trabajar ahorita estoy yendo a  
trabajar a tonapa a una 1 1/2 de  
camino todos los dias

**Thank you for your time and interest.**

# WHITE WING GEN-TIE PROJECT

## Comment Form

**Thank you for your interest in this Project. Please complete this form and provide any comments about the Project.**

Please Print

rayimundo.11@hotmail.com  
E-mail address

Raymundo Valenzuela  
Name

\_\_\_\_\_  
Organization (If Applicable)

152 E Los Olivos Dr P.O. Box 617  
Street Address

(928) 388-8052  
Daytime Phone No. (optional)

San Luis  
City

AZ  
State

85349  
Zip Code

**Please provide any comments about the Project:**

jos

**Thank you for your time and interest.**

# WHITE WING GEN-TIE PROJECT

## Comment Form

**Thank you for your interest in this Project. Please complete this form and provide any comments about the Project.**

Please Print

Chicky2piolas@gmail.com  
E-mail address

Edgar Lopez  
Name

Organization (If Applicable)

1774 N Taylor Way  
Street Address

(928) 726 2931  
Daytime Phone No. (optional)

Somerton  
City

AZ  
State

85350  
Zip Code

**Please provide any comments about the Project:**

looking for a great job environment.

**Thank you for your time and interest.**

# WHITE WING GEN-TIE PROJECT

## Comment Form

Thank you for your interest in this Project. Please complete this form and provide any comments about the Project.

Please Print

JOSE LUIS ARIZAGA CARRILLO<sup>11</sup> @GMAIL.COM  
E-mail address

JOSE ARIZAGA  
Name

Organization (If Applicable)

478 S. FIGUEROA AVE

(928) 488 - 1547

Street Address

Daytime Phone No. (optional)

SOMERTON

AZ

85350

City

State

Zip Code

Please provide any comments about the Project:

UNA GRAN OPORTUNIDAD PARA CONSEGUIR TRABAJO

IM CURRENTLY LOOKING FOR A JOB AND I  
THINK FIRST SOLAR WOULD BE A GREAT OPPORTUNITY.

Thank you for your time and interest.

# WHITE WING GEN-TIE PROJECT

## Comment Form

**Thank you for your interest in this Project. Please complete this form and provide any comments about the Project.**

Please Print

E-mail address

JOSE SUAREZ  
Name

Organization (If Applicable)

1876 S. 47th AV.  
Street Address

(928) 271-1160  
Daytime Phone No. (optional)

YUCIA  
City

ARIZONA  
State

85364  
Zip Code

**Please provide any comments about the Project:**

Una gran oportunidad para conseguir trabajo y ser parte del proyecto. gracias.

**Thank you for your time and interest.**

# WHITE WING GEN-TIE PROJECT

## Comment Form

Thank you for your interest in this Project. Please complete this form and provide any comments about the Project.

Please Print

YAYANGULO58@gmail.com  
E-mail address

RAYMONDO ANGULO  
Name

Organization (If Applicable)

2490 S 32 AVE

928 276-6097

Street Address

Daytime Phone No. (optional)

YUMA

AZ

85364

City

State

Zip Code

Please provide any comments about the Project:

yo creo que son muy buenos para el pais y la localidad al producir su propia energia y dar trabajo a gente local para construir este proyecto, y me gustaria ser parte de este proyecto

Thank you for your time and interest.

# WHITE WING GEN-TIE PROJECT

## Comment Form

**Thank you for your interest in this Project. Please complete this form and provide any comments about the Project.**

Please Print

Pat\_L\_Doring@msn.com  
E-mail address

Patricia Doring  
Name

Organization (If Applicable)  
(702) 321-4584

5744 Ladybank Ct.  
Street Address

Daytime Phone No. (optional)  
89110

Las Vegas NV  
City State

Zip Code

**Please provide any comments about the Project:**

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---

---

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---

---

**Thank you for your time and interest.**

# WHITE WING GEN-TIE PROJECT

## Comment Form

Thank you for your interest in this Project. Please complete this form and provide any comments about the Project.

Please Print

Mike\_5.4@hotmail.com  
E-mail address

Miguel Ortega  
Name

Organization (If Applicable)

1216 B St P.O. Box 4515  
Street Address

928 919 1930  
Daytime Phone No. (optional)

San Luis  
City

AZ  
State

85349  
Zip Code

Please provide any comments about the Project:

I'm currently looking for a job and I think  
First Solar would be a good company for me to  
work with. I did hear from friends good comments  
about this company.

Thank you for your time and interest.

# WHITE WING GEN-TIE PROJECT

## Comment Form

**Thank you for your interest in this Project. Please complete this form and provide any comments about the Project.**

Please Print

Hermes.Galvez77@yahoo.com  
E-mail address

Hermes Galvez  
Name

\_\_\_\_\_  
Organization (If Applicable)

575 S Dalton Avenue  
Street Address

(928) 243 6920  
Daytime Phone No. (optional)

Somerton  
City

AZ  
State

85350  
Zip Code

**Please provide any comments about the Project:**

Im currently looking for a job and I  
think First Solar would be a great opportunity.

**Thank you for your time and interest.**

# WHITE WING GEN-TIE PROJECT

CASE 172  
Before the  
Arizona Power Plant and Transmission Line Siting Committee  
Hearing set for  
September 12-13, 2016

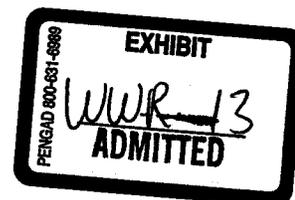
## SUMMARIES OF EXPECTED DIRECT TESTIMONY

1. **Kathryn Arbeit**, Director, Project Development, First Solar, Inc.

Ms. Arbeit's biographical information is attached.

Ms. Arbeit will briefly introduce the corporate structure and ownership of the Applicant, White Wing Ranch North, LLC, and its parent company, First Solar, Inc. She will present general background information regarding the renewable energy experience of First Solar and the White Wing team, the presently operating utility scale solar energy projects that First Solar has developed, and other projects currently in development. Her remarks will provide support for a finding of experience and financial capability necessary to achieve the objectives of the White Wing Gen-tie Project to interconnect the associated White Wing Solar Project.

Ms. Arbeit will also set a policy backdrop for the White Wing Gen-tie Project and the need for the Project in connection with the White Wing Solar Project. She will speak to the evolving public policy of encouraging solar energy development in the state of Arizona, both for use by Arizona utilities and customers and the broader southwest renewable energy markets. She will speak to the nature of the market for renewable energy in Arizona and the southwest, and how the Project fits into the procurement and power purchase agreement negotiation processes that typify the functions of that marketplace.



**WITNESSES 2, 3 and 4 will present testimony as a single panel**

**2. Max Bakker, Atlas Renewable Power, Project Development Manager**

Mr. Bakker's testimony will present an overview of the White Wing Gen-tie Project. His testimony will describe the location and the physical components of the Gen-tie Project facilities. Mr. Bakker will also provide an overview of the associated, proposed White Wing Solar Project photovoltaic generation facility for the interest and information of the Siting Committee. He will address the status of the White Wing Solar Project-specific marketing efforts to secure a customer and power purchase agreement that will allow for financing and construction of the Solar Project, and confirm the need for the Gen-tie Project to interconnect the White Wing Solar Project into the grid.

**3. Jim Filippi, Director, Transmission & Interconnection, First Solar, Inc.**

Mr. Filippi's testimony will address the transmission system impact technical studies and approvals that have been completed or are underway. He will testify about the status of ongoing negotiations with Arizona Public Service Company-as agent for the owners of the Hoodoo Wash Substation-leading to the contractual arrangements required in order for the Gen-tie Project to interconnect the White Wing Solar Project to the grid at the Hoodoo Wash Substation. He will also address the technical practicability of the Gen-tie Project and First Solar's experience with equipment and methods for achieving the Gen-tie Project's objectives.

**4. Randy Schroeder: Principal, EnValue, Project Environmental Consultant**

Mr. Schroeder will testify regarding the environmental investigations, assessments and studies completed on the lands affected by the White Wing Gen-tie Project. He will address each of the statutory factors required to be considered in issuing a Certificate of Environmental Compatibility, pursuant to A.R.S. § 40-360.06. Mr. Schroeder will also testify about the public outreach program that has been undertaken by the Applicant to ensure public knowledge and opportunity for input, including media notices and targeted mailings, the public open house, the Project toll-free number and the Project website.

**Kathryn Arbeit, Regional Director, Project Development, First Solar, Inc.**

Kathryn is currently leading development activities in the Southwest, including the 179 MW Playa Solar Project in Nevada. Kathryn has eighteen years of experience working with electric utilities in the U.S. and Canada, and fifteen years of experience focused on large-scale renewable energy project development. She previously led First Solar's project development activities in the Eastern U.S. and Texas. She also led development of the 550 MW Topaz Solar Farm in San Luis Obispo County that is owned by Mid-American and currently under construction.

Prior to joining First Solar, Kathryn was a Director of Business Development at OptiSolar Inc., initiating the development of Topaz and building a strategic solar project portfolio in the Western U.S.

In a previous position at Orion Energy LLC (now BP Alternative Energy), she led the development of 682 MW of wind energy projects currently operating in Oregon and Texas.

Prior to Orion, Kathryn worked in energy efficiency and renewable energy consulting.

Kathryn received a BS degree in Earth Systems Science, with honors, and a focus in Energy Science and Technology, from Stanford University.

MAX A. BAKKER

**BIOGRAPHY**

Max is the president of Atlas Renewable Power, a renewable energy consulting company. Atlas manages renewable energy projects throughout all stages of the development cycle from site control and permitting, power sale negotiations, financing and construction.

Before starting Atlas, Max was responsible for all project development and utility-system sales for the Southwestern US region at First Solar. While at First Solar he originated and acquired utility-scale PV projects and led their development into construction and operation.

Max was also an early member of NextLight Renewable Power, where he supported and managed the origination and development of 970 MW of US solar projects with PPAs that were won through utility power solicitations.

**SUMMARY**

Energy professional with substantive experience in utility-scale project development, acquisition, strategy, and finance. Specialties include project origination, project planning and management, due diligence, and commercial negotiations.

**EDUCATION**

M.B.A. Presidio Graduate School, California  
B.S. Northern Arizona University, Arizona

**EXPERIENCE**

**ATLAS RENEWABLE POWER**

**Principal**

With expertise in project development, acquisitions, financing, and joint ventures, Atlas provides project development and transactional consulting to companies and organizations in the renewable energy sector.

**FIRST SOLAR**

**Manager, Development**

Responsible for utility-scale solar power plant development, origination/sales, site identification and acquisition, PPA/EPC negotiations, M&A Valuation and Feasibility, environmental permitting, stakeholder management.

**NEXTLIGHT RENEWABLE POWER**

**Associate, Development**

Responsible for site identification and acquisition, financial and market analysis, permitting, resource monitoring, and early stage project definition.

**LIVENEUTRAL**

**MBA Intern, Strategy**

Responsible for originating and marketing carbon credits in the United States and Europe.

**HVS**

**Financial and Valuation Analyst**

Extensive financial analysis, valuation, forecasting and economic feasibility analysis with a focus on the commercial real estate sector.

**PROJECTS  
IN OPERATION**

17 MW<sub>AC</sub> Paloma Project, Maricopa County, Arizona  
Development Manager

50 MW<sub>AC</sub> Macho Springs Project, Luna County, New Mexico  
Acquisition Due Diligence & Development Manager

22 MW<sub>AC</sub> PNM Portfolio II, New Mexico  
Business & Development Manager

290 MW<sub>AC</sub> Agua Caliente Project, Yuma County, Arizona  
Development Support

230 MW<sub>AC</sub> Antelope Valley Solar Ranch One, Los Angeles County, California  
Development Support

60 MW<sub>AC</sub> Northstar Project, Fresno County, California  
Acquisition Due Diligence & Development Manager

**PROJECTS UNDER  
DEVELOPMENT**

150 MW<sub>AC</sub> Sun Streams Project, Maricopa County, Arizona  
Development Manager

150 MW<sub>AC</sub> Sun Streams 2 Project, Maricopa County, Arizona  
Development Manager

50 MW<sub>AC</sub> Mesa Solar Project, Pinal County, Arizona  
Development Manager

20 MW<sub>AC</sub> Mini-Mesa Solar Project, Pinal County, Arizona  
Development Manager

700 MW<sub>AC</sub> Early Stage Projects, Arizona  
Development Manager

**Jim Filippi**  
Transmission & Interconnection Consultant  
AllSourcePPS  
(510) 364-5125  
[jim.filippi008@gmail.com](mailto:jim.filippi008@gmail.com)

Mr. Filippi is a consultant to First Solar and is employed by AllSourcePPS. On June 1, 2016, he retired as Director of Transmission and Interconnection at First Solar, where he was responsible for the transmission-related activities to plan, site, permit and interconnect First Solar's new utility-scale generation projects in the Western Interconnection, including the 290 MW Agua Caliente Solar Project in Arizona and the 250 MW Antelope Valley Solar Ranch One Project in California, both now in operation.

Mr. Filippi joined First Solar in 2010 with its acquisition of NextLight Renewable Power, where he was the Director of Transmission. Prior to joining NextLight, he was Principal Planning Engineer for Pacific Gas & Electric and represented PG&E on electric transmission planning issues in inter-utility contract negotiations and litigation, state regulatory proceedings, industry associations and joint utility transmission expansion projects.

Prior to that, Mr. Filippi was Manager, Transmission Services for PG&E National Energy Group (NEG) responsible for the transmission-related activities for NEG's new generation projects in the West, including the Harquahala Generating Station in Arizona. Mr. Filippi has served as Chair of the Planning Coordination Committee of the Western Electricity Coordinating Council (WECC), as well as Chair of the Joint Guidance Committee, and most recently he was Chair of the Transmission Expansion Planning Technical Advisory Subcommittee. He is registered in California as a Professional Engineer in electrical engineering.

# **RANDY SCHROEDER**

## **EDUCATION**

- **Masters of Science (Environmental Science)**  
Colorado State University
- **Bachelor of Science (Natural Resource Management)**  
Colorado State University

## **CERTIFICATIONS/AFFILIATIONS**

- Registered Environmental Professional, REP 5189
- Registered Environmental Assessor, REA 02735
- Registered Environmental Property Assessor, REPA 1011
- National Registry of Environmental Professionals
- National Association of Environmental Professionals
- International Association of Impact Assessment

## **SPECIALTIES**

- *Project Planning*
- *Permit Acquisition*
- *Strategy Development*
- *Environmental Impact Assessment*
- *Agency Negotiation*
- *Public Involvement*

## **EXPERIENCE**

**39 YEARS**

- **ENValue**  
Principal
- **Greystone**  
Principal
- **Espey, Huston and Associates**  
Project Manager
- **Stearns-Roger Engineering Corporation**  
Environmental Planner

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Mr. Schroeder has provided planning and permitting services for the development of many energy projects throughout the country. He has developed and implemented comprehensive strategies for project planning including comprehensive routing and siting studies and public / stakeholder outreach programs. He has also acquired all permits and approvals for individual projects as well as providing strategic input for regional development policies and programs. He has managed numerous interagency coordination processes, provided testimony for many energy projects, and has successfully negotiated and resolved issues and disputes through use of his knowledge of technical issues, environmental laws, and regulatory processes.



Mr. Schroeder has provided environmental planning and permitting services for many energy projects throughout the United States. These projects have included many transmission lines, power generation projects, renewable energy projects, and pipelines.

He has conducted siting studies to identify the optimal locations for projects considering the constraints, avoidance areas, and opportunities associated with various siting alternatives. He has also prepared Environmental Impact Statements (EISs) and Environmental Assessments (EAs) to satisfy the requirements of the National Environmental Policy Act (NEPA) when federal lands or other federal jurisdiction is involved. He has also prepared the environmental documents necessary to satisfy State Siting Act requirements. He has managed the acquisition of other needed permits such as 404 permits for stream and wetland crossings, air permits, water discharge permits, and right-of-way permits. He has developed mitigation plans for these projects and has also prepared detailed Plans of Construction that itemize the various mitigation requirements for specific portions of the project.

### **Transmission Lines**

Mr. Schroeder has also provided planning and permitting services for many transmission projects. The work he has done on these projects has been for utilities, independent power producers, and units of government. These transmission line projects he has worked on have included both stand-alone transmission projects and those associated with interconnection of planned generation projects. He has analyzed over 75 transmission projects ranging from 500kV and 345kV lines to 69kV lines. He has also worked on many substation projects. Some of the transmission / substation projects that Mr. Schroeder has worked on include:

- NG-IV#2 500 kV Line
- PV-PW 500 kV Line
- Sunrise Power Link 500 kV Line
- Gardiner Park 345 kV Line
- PW-SEV 500 kV Line
- WETT 345 kV Lines
- Green Energy Express 500 kV Line
- WY-MT 230 kV Line
- Rockdale-West Middleton 345 kV Line
- Bay-Lake 345 kV Line
- Welton-Mohawk 230 kV Line
- DSWTP 500 kV Line
- BN-BS 230 kV Line
- Sundance Energy 230 kV Line
- Griffith Energy 230 kV Lines
- Westlake Energy 230 kV Line
- CB 345 Project
- M-IH 500 kV Project
- Chisago 345 kV Line
- CO-NM 345 kV Line
- Dry Fork Energy 230 kV Line
- Oregon Trail 345 kV Line
- Mountain View 230 kV Line
- CO-NM 230 kV Line
- Summit-Westward 230 kV Line
- Marys Lake 115 kV Line
- Blue Diamond 230 kV Line
- Southline 345 kV Line
- Moapa 230 kV Line
- Northern Lights 500 kV Line
- CA 500 kV Routing Study



**Power Generation Projects**

Mr. Schroeder has provided planning and environmental services for many types of power generation projects. These have included gas turbines, coal-fired plants, wind energy projects, cogeneration projects, nuclear plants, waste-to-energy plants, and hydroelectric projects. Many of these projects have provided baseload power and many have been peaking plants. He also has worked on energy storage projects including pumped storage technology. Some of the power generation projects that Mr. Schroeder has helped permit include:

- SPR Acquisition Due Diligence
- Coolidge 400 MW Peaking Project
- Welton-Mohawk 500 MW Project
- Sundance Energy 450 MW Power Plant
- Tehachapi Wind Project
- TC 500 MW Peaking Plant
- Blythe Energy 500 MW Power Plant
- Griffith Energy 600 MW Power Plant
- Westlake Energy 500 MW Power Plant
- Montezuma Energy 500 MW Plant
- Colorado Power Plant Siting Study
- Pastoria 500 MW Power Plant
- NAEP 185 MW Peaking Project
- Dry Fork Energy Storage Project
- Boulder Valley Pumped Storage Project
- Firth Cogeneration Project
- Rawhide Power Station
- Multiple 2000 MW Peaking Plant Siting
- Montana Power Due Diligence
- Oregon Trail 500 MW Power Plant
- CA/NV Geothermal Projects
- Desert Basin 500 MW Power Plant
- Buffalo IGCC 550 MW Power Plant
- Lakeside Power 500 MW Plant
- Mountain View 165 MW Power Plant
- Summit-Westward 500 MW Power Plant
- Blue Diamond Pumped Storage Project
- Ketchikan Lakes Hydroelectric Project
- Brush Cogeneration Unit
- Spiritwood Power Station
- TS Hydro Project
- SRC Gasification Project
- Antelope Power Station
- Fort St. Vrain Power Plant
- Crystal Creek Pumped Storage

## Solar Energy Projects

Mr. Schroeder has successfully sited and permitted many solar energy projects. These have included photovoltaic (PV) projects using both fixed-tilt and tracking systems, concentrating solar (CSP) projects (both trough and tower technology), and concentrating PV (CPV) projects. Some of the solar energy projects that Mr. Schroeder has helped site and permit include:

- White Wing Solar Project
- Agua Caliente 290 MW Solar Project
- Arlington Valley 250 MW Solar Project
- Arlington Valley II 250 MW Solar Project
- Yuma 50 MW Solar Project
- Rio Mesa Solar 500 MW Solar Project
- Campo Verde 140 MW Solar Project
- Paloma 17 MW Solar Project
- Desert Center 50 MW Solar Project
- Borrego 26 MW Solar Project
- 250 MW CSP Solar Siting Study
- Moapa Solar Energy Center
- Quail Run 20 MW Solar Project
- Blythe Airport 100 MW Solar Project
- Centinela 170 MW Solar Project
- Nevada 100 MW Solar Project
- Hyder 100 MW Solar Project
- Adelanto Solar Project
- Multiple Solar Project Due Diligence
- Deming Solar Project
- Quartzite Solar Project
- Centennial Solar Project
- NREL Site EA

## Pipeline Projects

Mr. Schroeder has provided environmental planning and permitting services for many pipeline projects throughout the United States. These pipeline projects have included natural gas pipelines, oil pipelines, CO<sub>2</sub> pipelines, NGL pipelines, water pipelines, and slurry pipelines. In addition to the pipelines, Mr. Schroeder has also evaluated associated facilities such as compressor/pump stations, spur lines, and terminals.

- FERC Environmental Training Program
- Baja Spur Routing Study
- TransColorado Pipeline Routing
- Express Pipeline EIS
- Rifle-Avon Pipeline EA
- Northern Tier Pipeline EA
- PSCC Pipeline EA
- Casper-Douglas Pipeline ER/EA
- Springdale-Yenter ER/EA
- North-South Pipeline EA/EIS
- Aledo Extension Pipeline ER
- Front Runner Pipeline ER
- Monument Pipeline EA
- Casper Loop Pipeline EA
- Black Mesa Pipeline Permitting
- FWGA Pipeline EA
- Douglas Spur ER
- Guernsey Compressor Station



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**BEFORE THE ARIZONA POWER PLANT AND  
TRANSMISSION LINE SITING COMMITTEE**

**Docket No. L-00000ZZ-16-0269-00172**

**CASE NO. 172**

**White Wing Gen-tie Project**

**DIRECT TESTIMONY**

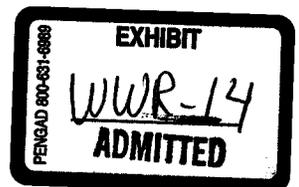
**of**

**JIM FILIPPI**

**On Behalf of Applicant, White Wing Ranch North, LLC**

Direct Testimony of Jim Filippi p. 1

Case No. 0172



1  
2 **DIRECT TESTIMONY OF JIM FILIPPI**

3 **On Behalf of Applicant White Wing Ranch North, LLC**

4 **Case No. 172**

5  
6 I. **INTRODUCTION**

7 Q. **Please state your name.**

8 A. My name is Jim Filippi

9 Q. **By whom are you employed and in what capacity?**

10 A. I am employed by AllSourcePPS as Transmission & Interconnection Consultant to  
11 provide consulting services to First Solar Development, LLC, which is my previous  
12 employer and the parent company of the Applicant, White Wing Ranch North, LLC  
13 (“White Wing Ranch”). Prior to my retirement on June 1, 2016, I was the Director of  
14 Transmission & Interconnection for First Solar and was responsible for the  
15 transmission-related activities to plan, site, permit and interconnect First Solar’s new  
16 utility-scale generation projects in the Western Interconnection.

17 Q. **Please briefly describe your educational background and work experience.**

18 A. A statement of my qualifications is set forth in Attachment 1 [Hearing Exhibit WWR-  
19 13].

20 Q. **Please describe your role in the White Wing Ranch Gen-tie Project.**

21 A. Prior to my recent retirement, I was responsible for all activities dealing with the  
22 regulatory and contractual elements of interconnecting and delivering the electricity  
23 produced from the proposed White Wing Ranch Solar Project into the electrical grid at  
24 the Hoodoo Wash Substation, which will be made possible by the proposed Gen-tie  
25  
26

1 Project Facilities that are the subject of this case. Since retirement, I have provided  
2 consulting support for these same aspects of the project.

3 Q. **What is the purpose of your testimony?**

4 A. I will describe the technical studies and approvals that have been completed, and the  
5 status of ongoing negotiations with the owners of the Hoodoo Wash Substation  
6 leading to the contractual arrangements required in order to interconnect the White  
7 Wing Ranch Solar Project ("Solar Project").

8 II. SUMMARY

9 Q. **Please summarize your testimony.**

10 A. White Wing Ranch is seeking authorization to construct the White Wing Ranch Gen-  
11 tie Project, which includes up to two substations and approximately 3.5-mile gen-tie  
12 line. The Gen-tie Project will interconnect a proposed photovoltaic (PV) solar  
13 generating facility commonly referred to as the White Wing Ranch Solar Project, to  
14 the regional electric grid via a 500kV interconnection into the existing Hoodoo Wash  
15 Substation. Most of the required system impact studies, power flow, transient stability  
16 and short circuit analyses, and facilities studies required for the interconnection have  
17 been completed. Staff of the Utilities Division of the Arizona Corporation  
18 Commission ("ACC") has reviewed some of those studies and is expected to yet  
19 comment favorably on those studies prior to the hearing. On the Applicant's behalf,  
20 First Solar has been negotiating with Arizona Public Service Company ("APS"), the  
21 operating agent for the joint owners of the Hoodoo Wash Substation, regarding the  
22 interconnection and construction agreements necessary to implement the desired  
23 interconnection.  
24  
25  
26

1 III. DETAILED TESTIMONY REGARDING INTERCONNECTION OF THE WHITE  
2 WING RANCH SOLAR FACILITY VIA THE WHITE WING RANCH GEN-TIE  
3 PROJECT

4  
5 Q. **Please describe the Status of the negotiations and relationship with Arizona**  
6 **Public Service Company, California Independent System Operator and**  
7 **Identified Affected Systems with respect to interconnection of the White Wing**  
8 **Solar Facility at the Hoodoo Wash Substation via the White Wing Gen-tie**  
9 **Project Facilities.**

10  
11 A. The current status of the interconnection process for the Solar Facility is that most  
12 interconnection studies have been completed and approved, and active negotiations  
13 with Arizona Public Service are proceeding with mutually satisfactory progress to date  
14 on the Large Generator Interconnection Agreement by and between White Wing  
15 Ranch North, LLC as Interconnection Customer and Arizona Public Service  
16 Company, Imperial Irrigation District ("IID"), San Diego Gas & Electric Company  
17 ("SDG&E"), and California Independent System Operator Corporation ("CAISO").

18  
19 APS acts as the Operating Agent of the Joint Participation Project, which  
20 includes Hoodoo Wash Substation, pursuant to the Arizona Transmission System  
21 Participation Agreement, as amended. APS, IID, and SDG&E own the Joint  
22 Participation Project. CAISO is the Balancing Authority for Hoodoo Wash  
23 Substation.

24  
25 APS posts the status of all requests for generator interconnection to its  
26 transmission facilities on its Open Access Same Time Information System

1 (http://www.oasis.oati.com/APS/). The queue list now posted, dated 08/16/2016,  
2 confirms that the Solar Facility, which is Queue Position 225, is active in the  
3 interconnection process, and that the System Impact Study (SIS) and the Facilities  
4 Study (FAS) are available.

5 CAISO posts the status of all requests for generator interconnection to its  
6 transmission facilities on its website (<https://rimspub.caiso.com/rims5/logon.do>). The  
7 queue list now posted, as of 08/29/2016, confirms that the Solar Facility, which is  
8 Queue Position 1062, is active in the interconnection process, and that the Phase I  
9 Study has been completed.

10  
11 **Q. Please describe the studies that have been performed in preparation for the**  
12 **interconnection, and any responses to those studies from the utility-sponsored**  
13 **self-regulating bodies, other affected utilities, or the ACC Staff.**

14  
15 **A.** APS has completed a System Impact Study (“SIS”) for the Solar Project: *Q225 White*  
16 *Wing Ranch Solar Generator Interconnection Project System Impact Study By Arizona*  
17 *Public Service Company Transmission Planning, November 12, 2015, Version 1.1*

18 The SIS included power flow, transient stability and short circuit analyses.  
19 The SIS was vetted with the facilities owners and the Western Arizona Transmission  
20 System Task Force (“WATS”), which approved the analyses. A facilities study was  
21 requested and APS completed the study and issued a study report: *Q225 Generation*  
22 *Interconnection, Interconnection Facilities Study Results, By: Arizona Public Service*  
23 *Company Transmission Planning 5/20/2016 [Version Final]* (“FIS”). The SIS was  
24  
25  
26

1 filed with the ACC Utilities Division in conjunction with the Project's Ten Year Plan  
2 on January 29, 2016; and the FIS was provided to the ACC Staff on August 26, 2016.  
3

4 The California Independent System Operator ("CAISO") in coordination with  
5 San Diego Gas & Electric Company ("SDG&E") has completed a Phase I Study for  
6 the Solar Project: *Cluster 7 Phase I Interconnection Study Report for the*  
7 *interconnection of the proposed Q1062 White Wing Ranch Solar Project to the CAISO*  
8 *Controlled Grid, December 17, 2014.* The Phase I study is comparable to a system  
9 impact study, and it includes power flow, transient stability and short circuit analyses.  
10

11 CAISO and SDG&E also have completed a Phase II study for the Project:  
12 *Cluster 7 Phase II Interconnection Study Report for the interconnection of the*  
13 *proposed White Wing Ranch Solar Project (Project) to the CAISO Controlled Grid,*  
14 *November 24, 2015.* This report was subsequently supplemented by *Queue Cluster 7*  
15 *Phase II Report Addendum #1, January 25, 2016.* The Phase II study is comparable to  
16 a facilities study.  
17

18 On March 2, 2016, CAISO notified WHITE WING RANCH that the White  
19 Wing Solar Project did not receive an allocation of TP Deliverability in the annual  
20 Deliverability assessment, which is the step in the interconnection process following  
21 the Phase II study. The CAISO tariff defines TP Deliverability as "The capability,  
22 measured in MW, of the CAISO Controlled Grid as modified by transmission  
23 upgrades and additions modeled or identified in the annual Transmission Plan to  
24 support the interconnection with Full Capacity Deliverability Status or Partial  
25 Capacity Deliverability Status of additional Generating Facilities in a specified  
26

1 geographic or electrical area of the CAISO Controlled Grid.” The CAISO tariff  
2 requires a project that requests Full Capacity Deliverability Status (which qualifies the  
3 qualifying capacity of the generator to be counted for resource adequacy) and  
4 reimbursement of Network Upgrade payments, but fails to receive an allocation of TP  
5 Deliverability, to elect one of three options: 1) withdraw from the interconnection  
6 queue; 2) forgo Full Capacity Deliverability Status and enter into a Generator  
7 Interconnection Agreement as an Energy-Only project; or 3) Park the Interconnection  
8 Request; in which case the Interconnection Request may remain in the interconnection  
9 queue until the next annual allocation of TP Deliverability. In response, WHITE  
10 WING RANCH elected to Park 207.3 MWs (which is the Solar Project’s gross  
11 maximum output less auxiliary service load) until the next annual Deliverability  
12 assessment. WHITE WING RANCH will submit an Affidavit for Projects Seeking  
13 TP Deliverability by CAISO’s deadline of November 16, 2016 if the Solar Project  
14 meets the minimum requirements to submit the affidavit. (One of the minimum  
15 requirements is that the project must be at least shortlisted for a power purchase  
16 agreement.) CAISO is scheduled to issue the next TP Deliverability allocation results  
17 by March 14, 2017.

18  
19  
20  
21 **Q. Please explain what other studies have yet to be performed in preparation for the**  
22 **interconnection.**

23 Following the TP Deliverability Allocation, CAISO will conduct the Annual  
24 Reassessment and Downsizing Study and issue the results by August 1, 2017. (Each  
25 year, before undertaking the Phase II Interconnection Studies for the next annual  
26

1 Interconnection Study Cycle, the CAISO will conduct a reassessment study to  
2 conform the base case power flow, short circuit, and stability data bases to account for  
3 later conditions since the CAISO performed the Phase II Interconnection Study in the  
4 prior Interconnection Study Cycle, and to account for the impact of Downsizing  
5 Generators (i.e. queued generation projects that have reduced their MW size). This  
6 study may result in some changes in the interconnection requirements.  
7

8 On June 2, 2015, CAISO notified WHITE WING RANCH that APS, IID and  
9 SRP are Identified Affected Systems for the Solar Project. In addition, the APS  
10 Facilities Study stated that the Palo Verde/Hassayampa/ANPP switchyard owners,  
11 including IID and SRP, which is the operating agent for the switchyard, are affected  
12 systems.  
13

14 WHITE WING RANCH is required to work with the identified affected  
15 systems and attempt to resolve any issues which affect system reliability. WHITE  
16 WING RANCH has contacted SRP, which is working with the Palo  
17 Verde/Hassayampa/ANPP switchyard owners to develop a long-term solution for an  
18 identified high fault duty at the switchyards. On August 23, 2016, SRP tendered an  
19 Affected System Study Agreement. Once WHITE WING RANCH and SRP execute  
20 the agreement and WHITE WING RANCH pays the study deposit, SRP will prepare a  
21 report explaining the problem, solution, cost and the Project's share of the cost.  
22  
23

24 WHITE WING RANCH has also signed *Affected System Study Agreement -*  
25 *CAISO Q1062 / ANPP Q225 - White Wing Ranch Solar - 200 MW* and submitted it to  
26

1 IID on May 19, 2016 for their execution. IID has executed the agreement and  
2 commenced the study.

3  
4 **Q. Please briefly summarize the status of negotiations between the Applicant and**  
5 **the applicable Interconnection Service Providers regarding the proposed**  
6 **interconnection.**

7 A. On July 8, 2016, APS, on behalf of CAISO, IID, SDG&E and itself, tendered a draft  
8 of the Articles of the Large Generator Interconnection Agreement (“LGIA”), and APS  
9 said that the participants and CAISO are currently reviewing the Appendices and are  
10 targeting to tender them to WHITE WING RANCH in early September. White Wing  
11 Ranch, APS and CAISO have not indicated any dis-satisfaction with the current  
12 progress of the interconnection arrangements. Negotiations to finalize the formal  
13 interconnection agreement required for the proposed interconnection are actively  
14 ongoing and productive. The Applicant has no knowledge of either an impediment to  
15 that ongoing process or material reason why the Applicant should not reasonably  
16 expect that such agreements will be completed and executed in due course consistent  
17 with the timing needs of the White Wing Gen-tie Project. Of course, White Wing  
18 Ranch North, LLC will comply with the final terms and conditions of those  
19 agreements during construction and subsequent operation of the Project.  
20  
21

22 **Q. Do you have anything further to add to your direct testimony?**

23 A. No.  
24  
25  
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4 **BEFORE THE ARIZONA POWER PLANT AND**  
5 **TRANSMISSION LINE SITING COMMITTEE**  
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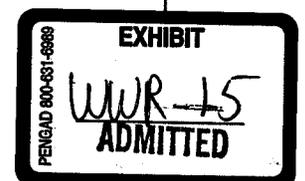
7 **Docket No. L-00000ZZ-16-0269-00172**

8 **CASE NO. 172**  
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10  
11 **White Wing Gen-tie Project**  
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16 **DIRECT TESTIMONY**  
17 **of**  
18 **Randy Schroeder**  
19

20 **On Behalf of Applicant, White Wing Ranch North, LLC**  
21  
22  
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24  
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26





- 1 • Case 133, Northern Arizona Energy Project
- 2 • Case 126, Pinal West to Southeast Valley 500 kV Transmission Line
- 3 • Case 124, Palo-Verde to Pinal West 500 kV Transmission Line
- 4 • Case 107, Sundance Energy Project
- 5 • Case 090, Griffith Energy Project
- 6
- 7

8 A more detailed resume is attached as Attachment 1.

9  
10 **Q. Please describe your role in the White Wing Gen-tie Project.**

11 **A.** I serve as the Project's Environmental Consultant.

12  
13 **Q. What is the purpose of your testimony?**

14 **A.** I am going to provide a general overview of the Project and also describe the  
15 environmental compatibility of the Project that must be considered when issuing a  
16 Certificate of Environmental Capability ("CEC") per A.R.S. § 40-360.06.

17  
18 **II. SUMMARY**

19  
20 **Q. Please summarize your testimony regarding the overview of the Project.**

21 **A.** White Wing Ranch North, LLC is seeking a certificate to construct and operate the  
22 White Wing Gen-tie Project, a 3.5-mile 500 to 115 kV gen-tie line and associated  
23 substation interconnections. This Project will interconnect the White Wing Solar  
24 Project, a proposed solar generating facility using photovoltaic ("PV") technology, to  
25 the nearby existing Hoodoo Wash Substation.  
26

1  
2 This Project is located in eastern Yuma County in an area that includes significant  
3 existing energy development including the Agua Caliente Solar Project and the  
4 Hoodoo Wash Substation, and the high voltage transmission lines associated with it in  
5 the area.

6  
7 By interconnecting the White Wing Solar Project, the Gen-tie Project will help  
8 provide marketable renewable energy to utility customers and will help meet the  
9 state's policy objectives for renewable energy.

10  
11 **Q. Please summarize your testimony regarding the environmental compatibility of**  
12 **the Project.**

13 **A.** The Project will occupy a small footprint, is compatible with the local environment,  
14 and meets the criteria for environmental compatibility that must be considered in  
15 issuing a CEC. It is compatible with existing land uses and plans for the Project  
16 vicinity. It will have limited impacts on fish, wildlife, and plants, including sensitive  
17 species and habitats. It will not have noticeable noise impacts or interfere with  
18 communication signals. It will not negatively affect recreational, scenic, historical, or  
19 archaeological resources. It will be compliant with all applicable air and water  
20 pollution standards and all other relevant ordinances, plans, and regulations.

21  
22 The Project has conducted a public process that has resulted in the local community  
23 being well informed about the Project and in support of the Project. This process is  
24 described in Exhibit J to the CEC Application.

1  
2 III. DETAILED TESTIMONY REGARDING OVERVIEW OF THE PROJECT

3  
4 Q. **Please provide a summary of the White Wing Gen-tie Project.**

5 A. The White Wing Gen-tie Project will consist of a new substation to transform power  
6 from 34.5kV to either 500kV, 230kV or 115kV (the "Solar Site Substation") and an  
7 approximately 3.5-mile 500kV, 230kV or 115kV gen-tie line (the "Gen-tie Line")  
8 originating at the Solar Site Substation and interconnecting with the existing Hoodoo  
9 Wash Substation. If the Solar Site Substation and the Gen-tie Line are constructed at  
10 voltage below 500kV, an additional substation providing transformation stepping up  
11 to 500kV (the "Step-up Substation") will be constructed on private lands immediately  
12 west of the existing Hoodoo Wash Substation.  
13

14 The Project endpoints will be on private lands. Nearly all of the Gen-tie Line will be  
15 on federal lands managed by the Bureau of Land Management ("BLM") in a right-of-  
16 way ("ROW") adjacent to the existing Agua Caliente Solar Project. These BLM-  
17 administered lands have been designated for solar and utility corridor uses. The  
18 Project will include transmission structures to accommodate approximately 25 spans.  
19

20 The Project is located in Yuma County about ten (10) miles north and three (3) miles  
21 east of Dateland, Arizona. It is north of Palomas / Hyder Road in Sections 16, 17, 20,  
22 28, 29, 33, and 34, T5S, R12W, G&SRBM.  
23  
24  
25  
26

1  
2 IV. DETAILED TESTIMONY REGARDING ENVIRONMENTAL COMPATIBILITY

3  
4 Q. **Please describe each of the criteria that must be considered per A.R.S. § 40-**  
5 **360.06, and how they apply to this Project, the studies that were performed to**  
6 **ascertain compliance with such criteria, and how the criteria and study results**  
7 **were addressed within the CEC application for this Project.**

8  
9 A. Below (in italics) are the factors to be considered in issuing a certificate of  
10 environmental compatibility identified in A.R.S. § 40-360.06, followed by the relevant  
11 facts about this Project.

12  
13 The Applicant conducted several environmental studies to evaluate the Project's  
14 potential effects on these factors. These included land use studies, the evaluation of  
15 plans proposed by other entities in the area, biological studies, cultural resource  
16 studies, visual assessments, noise studies, and a recreation assessment. The results of  
17 each of these studies are included in the CEC Application and are summarized in the  
18 response to each factor below.

19  
20 *A. The committee may approve or deny an application and may impose reasonable*  
21 *conditions upon the issuance of a certificate of environmental compatibility and in so*  
22 *doing shall consider the following factors as a basis for its action with respect to the*  
23 *suitability of either plant or transmission line siting plans:*  
24

1           1. Existing plans of the state, local government and private entities for other  
2           developments at or in the vicinity of the proposed sites.

3  
4           The White Wing Gen-tie Project will impact relatively few acres of land. Land  
5           ownership affected by the Project is 91 percent federal and 9 percent private. The  
6           jurisdiction regulating land use for the federal lands crossed by the Gen-tie Line is the  
7           BLM. The jurisdiction regulating land use for the private lands affected by the  
8           endpoints / substations is Yuma County.

9  
10          The existing land use in the area is dominated by industrial, agricultural, and open  
11          land uses. The BLM-managed lands are subject to the management direction in  
12          BLM's 2010 *Yuma Field Office Record of Decision and Approved Resource*  
13          *Management Plan* (Yuma RMP). The BLM-administered land crossed by the Gen-tie  
14          is currently managed by the BLM for multiple uses.

15  
16          In 2013, the northern portion of the BLM lands crossed by the Project was established  
17          as the Agua Caliente Solar Energy Zone ("SEZ") through the Environmental Impact  
18          Statement ("EIS") and Record of Decision ("ROD") for the Arizona Restoration  
19          Design Energy Project ("RDEP"). The BLM prioritizes and facilitates utility-scale  
20          production of solar energy and associated transmission infrastructure development  
21          within the SEZ.

22  
23          The southern portions of the BLM-administered lands crossed by the Gen-tie Line are  
24          outside the SEZ, but within a utility corridor designated in the Yuma RMP.  
25          Designated utility corridors are the preferred locations for major linear utility ROWs.  
26

1 The Yuma County Comprehensive Plan 2020 was adopted in 2012 and updated in  
2 2015. Yuma County annually updates the plan, as necessary, through the major plan  
3 amendment process. The private lands where the Solar Site Substation will be located  
4 (the northern terminus of the Project) are currently in agriculture. The private lands  
5 where the southern terminus of the Project will be located are occupied by  
6 undeveloped areas of the Agua Caliente Solar Project and the Hoodoo Wash  
7 Substation.

8  
9 The private lands where the project endpoints are located are subject to Special Use  
10 Permits ("SUPs") issued by Yuma County for solar projects and associated utility  
11 infrastructure. The SUP for the White Wing Solar Project, which included the lands  
12 for the Solar Site Substation, was approved by Yuma County in March 2016. A  
13 separate SUP for the Agua Caliente Solar Project, which included the lands where the  
14 Step-up Substation and Hoodoo Wash Substation are located, was issued by Yuma  
15 County in 2009.

16  
17 In summary, the White Wing Gen-tie Project will be consistent with both the BLM  
18 and Yuma County land use designations for the Project.

19  
20 *2. Fish, wildlife and plant life and associated forms of life upon which they are*  
21 *dependent.*  
22

23 This is addressed in Exhibit D of the CEC Application. The Gen-tie Line is located on  
24 disturbed desert habitats on BLM-managed land immediately adjacent to the existing  
25 Agua Caliente Solar Project. These sparse habitats will be impacted primarily at  
26 structure locations as well as the roads used to access them. The project endpoints

1 will be located on a small amount of land already disturbed by agriculture and solar  
2 development. Thus, the Project would result in negligible impacts to biological  
3 resources.

4  
5 *3. Noise emission levels and interference with communication signals.*

6 This is addressed in Exhibit I of the CEC Application. The impact from construction  
7 and operation of the Gen-tie Project on the sound levels in the area would be minimal,  
8 and the nearest noise receptor (residence) is approximately 1.5 miles away.

9  
10 *4. The proposed availability of the sites to the public for recreational purposes,*  
11 *consistent with safety considerations and regulations.*

12 Exhibit F of the CEC Application addresses Recreation. Federal lands adjacent to the  
13 Gen-tie Project will be available for dispersed public recreation purposes until solar  
14 development occurs on these lands as currently planned. The nearby private lands  
15 where the Project endpoints are located are unavailable for recreation. There are no  
16 existing or planned designated recreational facilities or areas in the immediate vicinity  
17 of the Project, and the Gen-tie Line would not interfere with dispersed recreation on  
18 nearby BLM-managed lands. Therefore, no recreational impacts are anticipated to  
19 result from the White Wing Gen-tie Project.  
20  
21

22  
23 *5. Existing scenic areas, historic sites and structures or archaeological sites at or in*  
24 *the vicinity of the proposed sites.*

25  
26 This is discussed in Exhibit E of the CEC Application. The Project facilities will be

1 very similar to the existing facilities at and around the Hoodoo Wash Substation and  
2 Agua Caliente Solar Project, and will visually blend in with these existing structures.  
3 This is depicted in the visual simulations for the Project from the points on  
4 Palomas/Hyder Road, from which most people would be able to observe them. There  
5 are no designated scenic areas in the vicinity of the Project.  
6

7  
8 A Class III cultural resources survey was conducted for the Project to determine if  
9 cultural resources were located within the Project footprint. There are no known  
10 historic sites or structures, or archaeological sites that would be affected by the  
11 proposed White Wing Gen-tie Project.  
12

13 *6. The total environment of the area.*

14 The Gen-tie Project is surrounded by existing and proposed solar facilities,  
15 transmission lines, and an abandoned railroad. Development of the Project will not  
16 affect and will be compatible with adjacent land uses. Air emissions associated with  
17 the Project will be very small.  
18

19  
20 *7. The technical practicability of achieving a proposed objective and the previous  
21 experience with equipment and methods available for achieving a proposed objective.*

22 This is addressed in Ms. Kathryn Arbeit's and Mr. Jim Filippi's testimony.  
23  
24  
25  
26

1 8. *The estimated cost of the facilities and sites as proposed by the applicant and the*  
2 *estimated cost of the facilities and sites as recommended by the committee,*  
3 *recognizing that any significant increase in costs represents a potential increase in the*  
4 *cost of electric energy to the customers or the applicant.*

5  
6 The presently estimated cost for the Gen-tie Project facilities is \$20 million to \$27  
7 million, depending on the ultimate voltage and substation configuration.

8  
9  
10 9. *Any additional factors which require consideration under applicable federal and*  
11 *state laws pertaining to any such sites.*

12  
13 The Project will acquire all applicable permits and approvals and comply with all  
14 associated laws, regulations and ordinances.

15  
16  
17 *B. The committee shall give special consideration to the protection of areas unique*  
18 *because of biological wealth or because they are habitats for rare and endangered*  
19 *species.*

20  
21 This is discussed in Exhibit C of the CEC Application. There would be minimal  
22 potential impacts to rare and endangered species by construction and operations due to  
23 the small area affected by the Project (the area being made up primarily of disturbed  
24 and native habitat of limited suitability to sensitive species), and also because the  
25 proposed ROW is immediately adjacent to existing solar development. Pre-

1 construction surveys and mitigation will be implemented as needed if any individuals  
2 of sensitive species are found within the Gen-tie Project disturbance area.

3  
4 *C. Notwithstanding any other provision of this article, the committee shall require in*  
5 *all certificates for facilities that the applicant comply with all applicable nuclear*  
6 *radiation standards and air and water pollution control standards and regulations,*  
7 *but shall not require compliance with performance standards other than those*  
8 *established by the agency having primary jurisdiction over a particular pollution*  
9 *source.*

10  
11 No specific air or water pollution control permits will be required for the White Wing  
12 Gen-tie Project. However, the Project will comply with the applicable dust control  
13 and stormwater control requirements administered by Yuma County and the State of  
14 Arizona.

15  
16  
17  
18 *D. Any certificate granted by the committee shall be conditioned on compliance by the*  
19 *applicant with all applicable ordinances, master plans and regulations of the state, a*  
20 *county or an incorporated city or town, except that the committee may grant a*  
21 *certificate notwithstanding any such ordinance, master plan or regulation, exclusive*  
22 *of franchises, if the committee finds as a fact that compliance with such ordinance,*  
23 *master plan or regulation is unreasonably restrictive and compliance therewith is not*  
24 *feasible in view of technology available. . . .*

1 Exhibit H of the CEC Application discusses existing plans. The applicable plans for  
2 Yuma County (the local jurisdictional entity) and the BLM (the federal jurisdictional  
3 entity) are discussed in Exhibit A of the CEC Application and summarized in A.1  
4 above. There are several existing electrical transmission facilities in the immediate  
5 area as well as existing and planned solar facilities. The Project will comply with all  
6 applicable ordinances, master plans, and regulations and will not require the  
7 Committee to grant any special exceptions under this statutory provision.  
8

9 **Q. Please describe the details of the public process that was conducted for this Project.**

10 A. The Applicant conducted a public outreach project to solicit comments associated with  
11 the Gen-tie Project. This included the following:

- 12 • Open House: An Open House was conducted June 7, 2016 at the Dateland  
13 Elementary School to allow the public to have informal one-on-one conversations  
14 with Project representatives to express concerns, provide input, and receive  
15 answers to their questions. Invitations to the Open House were published in the  
16 Yuma Sun newspaper on May 29 and June 5, 2016, and were mailed to property  
17 owners within 10 miles of the Gen-tie Project, as well as to jurisdictional entities.
- 18 • Project 1-800 number: The Gen-tie Project established and is maintaining a 1-800  
19 number that is used to respond to questions and obtain comments from the public.
- 20 • Comment Forms: Comment forms were utilized at the Open House public  
21 meeting to take written comments.
- 22 • Public Comment Tracking Database: The Applicant has created a database for  
23 documenting contacts with the public that will be maintained throughout  
24 construction of the Project. Contact records identify the name, contact  
25  
26

1 information, topic(s) of discussion, and follow-up action needed and taken.

- 2 • Project Website: The Applicant has created a website to notify the public of all  
3 hearing dates and technical information regarding the Project. The website is:  
4 [www.WhiteWingGen-tie.com](http://www.WhiteWingGen-tie.com)  
5

6  
7 Twenty-four individuals signed in at the Open House where they spoke with Project  
8 representatives and asked questions. These included fourteen individuals seeking  
9 employment, two BLM staff, five school employees, and one local business owner.  
10 Fourteen written comments were received at the Open House and all were supportive  
11 of the Project – including nine requesting jobs and two interested in selling land.  
12 Verbal comments received at the meeting were also associated with support of the  
13 Project and job inquiries.  
14

15  
16 This public outreach effort was conducted in addition to the public outreach effort that  
17 was implemented for the White Wing Solar Project. That program also included  
18 extensive outreach efforts to distribute information and solicit input from the public  
19 and interested stakeholders, with an Open House on October 13, 2015, where the  
20 information presented also included an overview of the White Wing Gen-tie Project.  
21 Response to this effort in late 2015 was supportive and similar to that at the Open  
22 House held in June of 2016 specifically for the Gen-tie Project.  
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**Q. In your professional opinion, is the proposed White Wing Gen-tie Project, as described in the CEC Application for Case No. 172, environmentally compatible?**

**A. Yes, it most certainly is.**

**Q. Do you have anything further to add to your direct testimony?**

**A. No.**



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David L. Eberhart, P.E.	Represents the General Public
Jack Haenichen	Represents the General Public
Ian Bingham	Designee for the Director of the Department of Environmental Quality
Lisa Williams	Designee for the Department of Water Resources
Mary Hamway	Represents Incorporated Cities and Towns
Jeff McGuire	Represents Agricultural Interests
Patricia Noland	Represents the General Public
Jim Palmer	Represents Counties

Applicant was represented by Jay Moyes and Jason Moyes of Moyes Sellers & Hendricks, Ltd. No parties sought intervention or made a limited appearance. At the conclusion of the hearing, the Committee, having received the Application, the evidence, testimony and exhibits presented at the hearing, and being advised of the legal requirements of A.R.S. §§ 40-360 to 40-360.13, upon motion duly made and seconded, voted \_\_\_ to \_\_\_ in favor of granting Applicant this Certificate of Environmental Compatibility (Case No. 172) for construction of the White Wing Gen-tie Project. The White Wing Gen-tie Project (the "Project"), as approved, will interconnect the proposed White Wing photovoltaic solar generating facility to the existing Hoodoo Wash 500kV substation. The approved Project consists of a 34.5 / up to 500kV Solar Site Substation; an approximately 3.5-mile, up to 500kV Gen-tie Line; and (if the Solar Site Substation and Gen-tie Line are built at a voltage less than 500kV) a Step-up Substation for transformation to 500kV, with a short 500kV line connecting to the adjacent existing Hoodoo Wash Substation. The Project is located in Sections 16, 17, 20, 28, 29, 33, and 34, Township 5 South, Range 12 West, G&SRB&M, in Yuma County, approximately 10 miles north and approximately 3 miles east of Dateland, Arizona. The

1 proposed Gen-tie Line will be constructed in a corridor approximately 300-feet wide, running  
2 between the Solar Site Substation and the existing Hoodoo Wash Substation, and generally  
3 paralleling the western boundary of the existing Agua Caliente Solar Project. A general  
4 location map of the Project is set forth in **Exhibit A**.

5  
6 **CONDITIONS**

7 This Certificate is granted upon the following conditions:

8 1. Applicant shall comply with all existing applicable statutes, ordinances, master  
9 plans and regulations of any governmental entity having jurisdiction during the construction of  
10 the Project—including the United States, the State of Arizona, or Yuma County. (**Cases 168,**  
11 **169, 170, 171**)

12 2. If human remains and/or funerary objects are encountered on private land during  
13 the course of any ground-disturbing activities relating to the construction of the Project,  
14 Applicant shall cease work on the affected area of the Project and notify the Director of the  
15 Arizona State Museum as required by A.R.S. § 41-865. (**Cases 168, 169, 170, 171**)

16 3. Applicant shall comply with the notice and salvage requirements of the Arizona  
17 Native Plant Law (A.R.S. §§ 3-901, et seq.) and shall, to the extent feasible, minimize the  
18 destruction of native plants during Project construction. (**Cases 168, 169, 170, 171**)

19 4. Applicant agrees to follow Arizona Game and Fish Department (“AGFD”)  
20 guidelines for handling protected animal species, should any be encountered during  
21 construction. (**Cases 168, 171**)

22 5. Applicant shall design the transmission lines to incorporate reasonable measures to  
23 minimize impacts to raptors. Such design will address the application of recommended  
24 measures to minimize the risk of collision, as described in the 2012 guidelines of the Avian  
25 Power Line Interaction Committee. (**Cases 168, 169, 170, 171**)  
26

1           6. Applicant will comply with all terms and conditions set forth in any decision issued  
2 by the United States Bureau of Land Management ("BLM") in association with (i) BLM's  
3 designation of the Agua Caliente Solar Energy Zone (SEZ), (ii) designation of the designated  
4 utility corridor, (iii) Applicant's pending Application for Right of Way ("ROW") and Plan of  
5 Development ("POD"), (or) (iv) associated National Environmental Policy Act (NEPA)  
6 documents.

7           7. Applicant shall use non-specular conductor and non-reflective surfaces for the  
8 Project's transmission line structures. (Cases 168, 169, 170, 171)

9           8. When Project facilities are located parallel to and within one hundred (100) feet of  
10 any existing natural gas or hazardous liquid pipeline, Applicant shall:

11           a. Ensure grounding and cathodic protection measurements are performed to show  
12 that the Project's location parallel to and within one hundred (100) feet of such  
13 pipeline results in no material adverse impacts to the pipeline or to public safety  
14 when both the pipeline and the Project are in operation. Applicant shall take  
15 appropriate steps to ensure that any material adverse impacts are mitigated.

16           Applicant shall provide to Arizona Corporation Commission ("Commission")  
17 Staff and file with Docket Control a copy of the measurements performed and  
18 additional mitigation, if any, that was implemented as part of its annual  
19 compliance-certification letter; and

20           b. Ensure that measurements are taken during an outage simulation of the Project  
21 that may be caused by the collocation of the Project parallel to and within one  
22 hundred (100) feet of the existing natural gas or hazardous liquid pipeline. The  
23 measurements should either: (i) show that such simulated outage does not result  
24 in customer outages; or (ii) include operating plans to minimize any resulting  
25 customer outages. Applicant shall provide a copy of the measurement results to  
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Commission Staff and file it with Docket Control as part of its annual compliance-certification letter. **(Cases 168, 169, 170, 171)**

9. Applicant will follow the most current Western Electricity Coordinating Council / North American Electric Reliability Corporation planning standards, as approved by the Federal Energy Regulatory Commission, and National Electrical Safety Code construction standards. **(typical, Cases 168, 169, 170, 171)**

10. This authorization to construct the Project shall expire ten (10) years from the date the Certificate is approved by the Arizona Corporation Commission (the "Commission"). However, prior to expiration, Applicant may request that the Commission extend this time limitation. In the event of such request, Applicant shall use reasonable means to notify all landowners and residents within one mile of the Project, all persons who made public comment at this proceeding, and all parties to this proceeding of the request and the date, time and place of the hearing in which the Commission will consider the request for extension. **(Case 168)**

11. Within 120 days of the Commission decision approving this Certificate, Applicant will post at the Project site a new sign, of approximately the same size and at approximately the same location as the "Notice of Hearing" sign previously posted by Applicant, giving further notice of the Project, to the extent authorized by law, until the Project construction is substantially completed. The sign shall advise :

- (a) That the site has been approved for the construction of Project facilities;
- (b) The expected date of completion of the Project facilities;
- (c) A phone number for public information regarding the Project;
- (d) The name of the Project; and
- (e) The website of the Project. **(Cases 168, 170, 171)**

12. Applicant shall submit a compliance-certification letter annually, identifying progress made with respect to each condition contained in this Certificate, including which

1 conditions have been met. Each letter shall be submitted to Docket Control of the Arizona  
2 Corporation Commission on or before October 1 beginning in 2017. Attached to each  
3 compliance-certification letter shall be documentation explaining how compliance with each  
4 condition was achieved. Copies of each letter along with the corresponding documentation  
5 shall be submitted to the Arizona Attorney General and the Arizona Governor's Office [of  
6 Energy Policy]. The requirement for the compliance-certification letter shall expire on the date  
7 the Project is placed into operation. Notification of such filing with Docket Control shall be  
8 made to Yuma County, all parties to this Docket, and all parties, if any, that made a limited  
9 appearance in this Docket. **(Cases 168, 169, 170, 171)**

10 13. Applicant shall provide copies of this Certificate to Yuma County, the BLM, the  
11 State Historic Preservation Office, and the Arizona Game and Fish Department. **(Cases 168,**  
12 **169, 170 171)**

13 14. Any transfer of assignment of this Certificate shall require the assignee or  
14 successor to assume in writing all responsibilities of the Applicant listed in this Certificate and  
15 its conditions as required by A.R.S § 40-360.08(A) and R14-3-213(F) of the Arizona  
16 Administrative Code. **(Case 169, 170, 171)**

17 **FINDINGS OF FACT AND CONCLUSIONS OF LAW**

18 This Certificate incorporates the following findings of fact and conclusions of law:

- 19
- 20 1. The Project aids the state and the southwest region in meeting the need for an  
21 adequate, economical and reliable supply of electric power.
  - 22 2. The Project aids the state in preserving a safe and reliable transmission system.
  - 23 3. The Project and the conditions placed on the Project by the Committee in this  
24 Certificate effectively minimize the Project's impact on the environment and  
25 ecology of the state.
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- 4. The conditions placed on the Certificate resolve matters concerning balancing the need for the Project and its impact on the environment and ecology of the state raised during the course of the proceedings, and as such, serve as findings on the matters raised.
- 5. The Project is in the public interest because the Project's contribution to meeting the need for an adequate, economical and reliable supply of clean, renewable electric power and a safe and reliable transmission system outweighs the minimized impact of the Project on the environment and ecology of the state.
- 6. In light of these conditions, the balancing in the broad public interest results in favor of granting this Certificate.

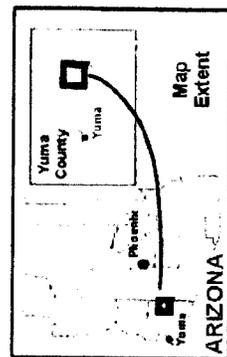
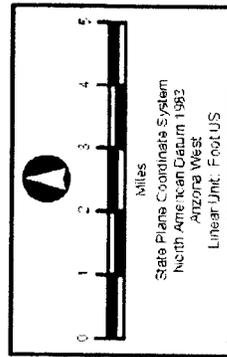
DATED this \_\_\_\_ day of September, 2016.

THE ARIZONA POWER PLANT AND  
TRANSMISSION LINE SITING COMMITTEE

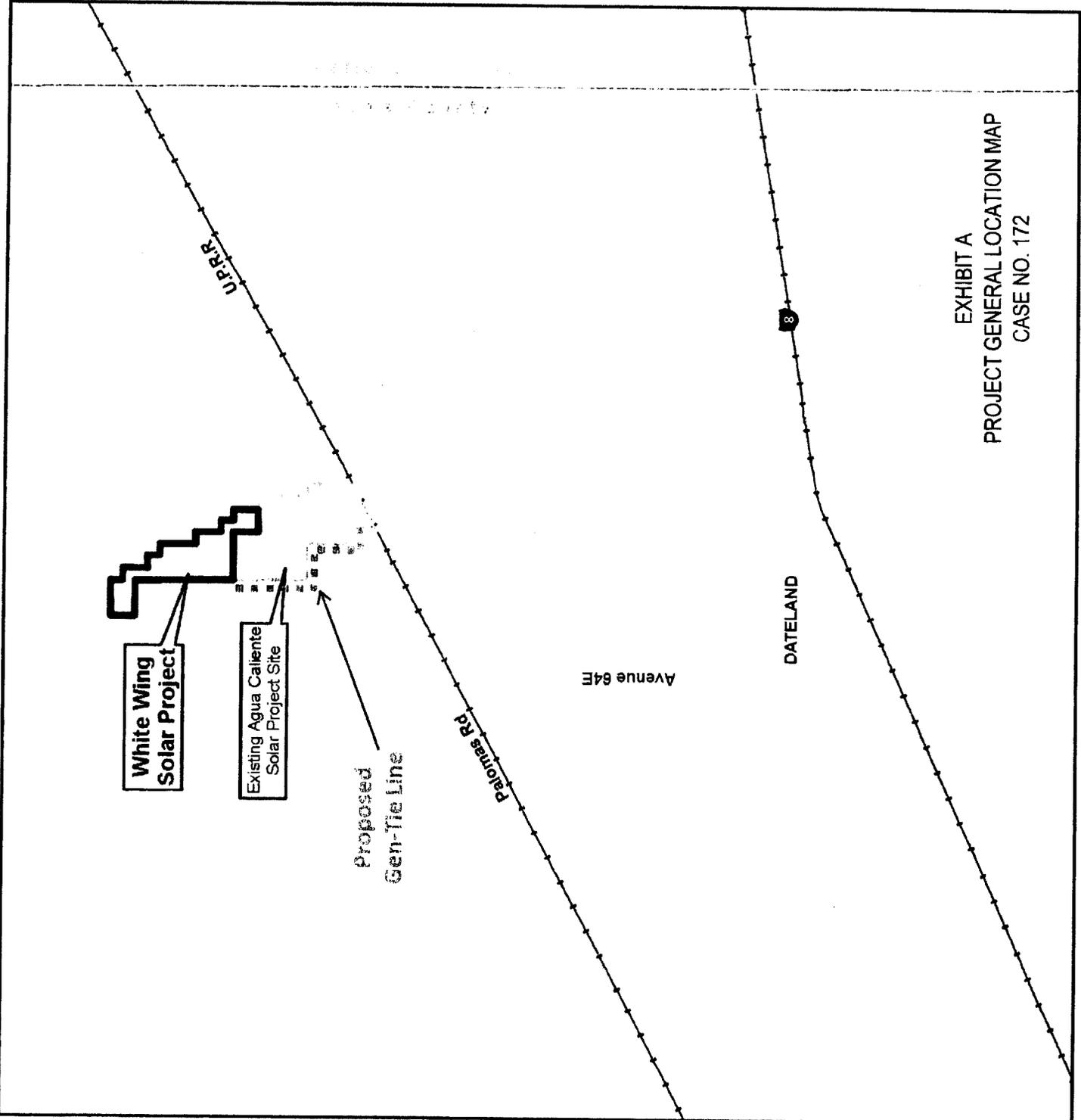
\_\_\_\_\_  
Thomas K. Chenal, Chairman

**Legend**

- Interstate Highway
- Road
- Railroad
- White Wing Solar Project
- Existing Agua Caliente Solar Project Site
- County Boundary



<b>WHITE WING GEN-TIE PROJECT</b>	
<b>PROJECT LOCATION</b>	
Map Extent: Yuma County, Arizona	
Date: 8.20.15	Author: SP



**EXHIBIT A**  
**PROJECT GENERAL LOCATION MAP**  
**CASE NO. 172**



1 ORIGINAL & 25 copies of the  
2 Foregoing were filed with Docket  
3 Control on the 5<sup>th</sup> day of September, 2016.

4 Copies were electronically delivered  
5 The 5<sup>th</sup> day of September, 2016 to:

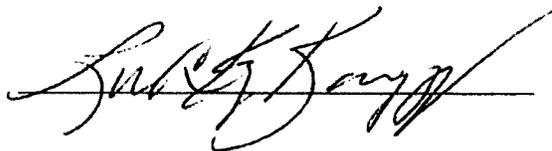
6 Thomas K. Chenal, Chairman  
7 Arizona Power Plant and Transmission  
8 Line Sitting Committee  
9 1275 W. Washington  
10 Phoenix, AZ 85007  
11 Thomas.chenal@azag.gov

12 Janice Alward, Esq.  
13 Legal Division  
14 Arizona Corporation Commission  
15 1275 W. Washington  
16 Phoenix, AZ 85007  
17 JAlward@azcc.gov

18 Thomas Broderick  
19 Utilities Division  
20 Arizona Corporation Commission  
21 1275 W. Washington  
22 Phoenix, AZ 85007  
23 tbroderick@azcc.gov

24 Dwight Nodes  
25 Arizona Corporation Commission  
26 1275 W. Washington  
Phoenix, AZ 85007  
dnodes@azcc.gov

Marta T. Hetzer  
Coash & Coash  
1802 N. 7<sup>th</sup> Street  
Phoenix, AZ 85006  
mh@coashandcoash.com





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David L. Eberhart, P.E.	Represents the General Public
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2 between the Solar Site Substation and the existing Hoodoo Wash Substation, and generally  
3 paralleling the western boundary of the existing Agua Caliente Solar Project. A general  
4 location map of the Project is set forth in **Exhibit A**.

### 5 CONDITIONS

6 This Certificate is granted upon the following conditions:

7 1. Applicant shall comply with all existing applicable statutes, ordinances, master  
8 plans and regulations of any governmental entity having jurisdiction during the construction of  
9 the Project—including the United States, the State of Arizona, or Yuma County. **(Cases 168,**  
10 **169, 170, 171)**

11 2. If human remains and/or funerary objects are encountered on private land during  
12 the course of any ground-disturbing activities relating to the construction of the Project,  
13 Applicant shall cease work on the affected area of the Project and notify the Director of the  
14 Arizona State Museum as required by A.R.S. § 41-865. **(Cases 168, 169, 170, 171 )**

15 3. Applicant shall comply with the notice and salvage requirements of the Arizona  
16 Native Plant Law (A.R.S. §§ 3-901, et seq.) and shall, to the extent feasible, minimize the  
17 destruction of native plants during Project construction. **(Cases 168, 169, 170, 171)**

18 4. Applicant agrees to follow Arizona Game and Fish Department (“AGFD”)  
19 guidelines for handling protected animal species, should any be encountered during  
20 construction. **(Cases 168, 171)**

21 5. Applicant shall design the transmission lines to incorporate reasonable measures to  
22 minimize impacts to raptors. Such design will address the application of recommended  
23 measures to minimize the risk of collision, as described in the 2012 guidelines of the Avian  
24 Power Line Interaction Committee. **(Cases 168, 169, 170, 171)**

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6. Applicant will comply with all terms, conditions, and requirements set forth in the final decision by the United States Bureau of Land Management ("BLM") granting Applicant's pending Application for Right of Way ("ROW").

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7. Applicant shall use non-specular conductor and non-reflective surfaces for the Project's transmission line structures. (Cases 168, 169, 170, 171)

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8. When Project facilities are located parallel to and within one hundred (100) feet of any existing natural gas or hazardous liquid pipeline, Applicant shall:

- a. Ensure grounding and cathodic protection measurements are performed to show that the Project's location parallel to and within one hundred (100) feet of such pipeline results in no material adverse impacts to the pipeline or to public safety when both the pipeline and the Project are in operation. Applicant shall take appropriate steps to ensure that any material adverse impacts are mitigated. Applicant shall provide to Arizona Corporation Commission ("Commission") Staff and file with Docket Control a copy of the measurements performed and additional mitigation, if any, that was implemented as part of its annual compliance-certification letter; and
- b. Ensure that measurements are taken during an outage simulation of the Project that may be caused by the collocation of the Project parallel to and within one hundred (100) feet of the existing natural gas or hazardous liquid pipeline. The measurements should either: (i) show that such simulated outage does not result in customer outages; or (ii) include operating plans to minimize any resulting customer outages. Applicant shall provide a copy of the measurement results to Commission Staff and file it with Docket Control as part of its annual compliance-certification letter. (Cases 168, 169, 170, 171)

1           9. Applicant will follow the most current Western Electricity Coordinating Council /  
2 North American Electric Reliability Corporation planning standards, as approved by the Federal  
3 Energy Regulatory Commission, and National Electrical Safety Code construction standards.  
4 **(typical, Cases 168, 169, 170, 171)**

5           10. This authorization to construct the Project shall expire ten (10) years from the date  
6 the Certificate is approved by the Arizona Corporation Commission (the "Commission").  
7 However, prior to expiration, Applicant may request that the Commission extend this time  
8 limitation. In the event of such request, Applicant shall use reasonable means to notify all  
9 landowners and residents within one mile of the Project, all persons who made public comment at  
10 this proceeding, and all parties to this proceeding of the request and the date, time and place of  
11 the hearing in which the Commission will consider the request for extension. **(Case 168)**

12           11. Within 120 days of the Commission decision approving this Certificate, Applicant  
13 will post at the Project site a new sign, of approximately the same size and at approximately the  
14 same location as the "Notice of Hearing" sign previously posted by Applicant, giving further  
15 notice of the Project, to the extent authorized by law, until the Project construction is substantially  
16 completed. The sign shall advise :

- 17                   (a) That the site has been approved for the construction of Project facilities;  
18                   (b) The expected date of completion of the Project facilities;  
19                   (c) A phone number for public information regarding the Project;  
20                   (d) The name of the Project; and  
21                   (e) The website of the Project. **(Cases 168, 170, 171)**

22           12. Applicant shall submit a compliance-certification letter annually, identifying  
23 progress made with respect to each condition contained in this Certificate, including which  
24 conditions have been met. Each letter shall be submitted to Docket Control of the Arizona  
25 Corporation Commission on or before October 1 beginning in 2017. Attached to each  
26

1 compliance-certification letter shall be documentation explaining how compliance with each  
2 condition was achieved. Copies of each letter along with the corresponding documentation  
3 shall be submitted to the Arizona Attorney General and the Arizona Governor's Office [of  
4 Energy Policy]. The requirement for the compliance-certification letter shall expire on the date  
5 the Project is placed into operation. Notification of such filing with Docket Control shall be  
6 made to Yuma County, all parties to this Docket, and all parties, if any, that made a limited  
7 appearance in this Docket. (Cases 168, 169, 170, 171)

8  
9 13. Applicant shall provide copies of this Certificate to Yuma County, the BLM, the  
10 State Historic Preservation Office, and the Arizona Game and Fish Department. (Cases 168,  
11 169, 170 171)

12 14. Any transfer of assignment of this Certificate shall require the assignee or  
13 successor to assume in writing all responsibilities of the Applicant listed in this Certificate and  
14 its conditions as required by A.R.S § 40-360.08(A) and R14-3-213(F) of the Arizona  
15 Administrative Code. (Case 169, 170, 171)

#### 16 FINDINGS OF FACT AND CONCLUSIONS OF LAW

17 This Certificate incorporates the following findings of fact and conclusions of law:

- 18 1. The Project aids the state and the southwest region in meeting the need for an  
19 adequate, economical and reliable supply of electric power.
- 20 2. The Project aids the state in preserving a safe and reliable transmission system.
- 21 3. The Project and the conditions placed on the Project by the Committee in this  
22 Certificate effectively minimize the Project's impact on the environment and  
23 ecology of the state.
- 24 4. The conditions placed on the Certificate resolve matters concerning balancing the  
25 need for the Project and its impact on the environment and ecology of the state  
26

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raised during the course of the proceedings, and as such, serve as findings on the matters raised.

- 5. The Project is in the public interest because the Project's contribution to meeting the need for an adequate, economical and reliable supply of clean, renewable electric power and a safe and reliable transmission system outweighs the minimized impact of the Project on the environment and ecology of the state.
- 6. In light of these conditions, the balancing in the broad public interest results in favor of granting this Certificate.

DATED this \_\_\_ day of September, 2016.

**THE ARIZONA POWER PLANT AND  
TRANSMISSION LINE SITING COMMITTEE**

\_\_\_\_\_  
Thomas K. Chenal, Chairman

**Legend**

Interstate Highway

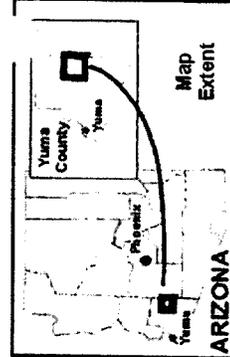
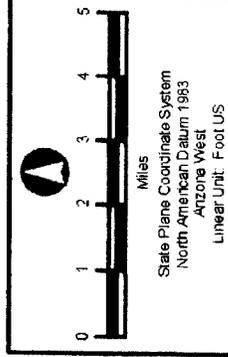
Road

Railroad

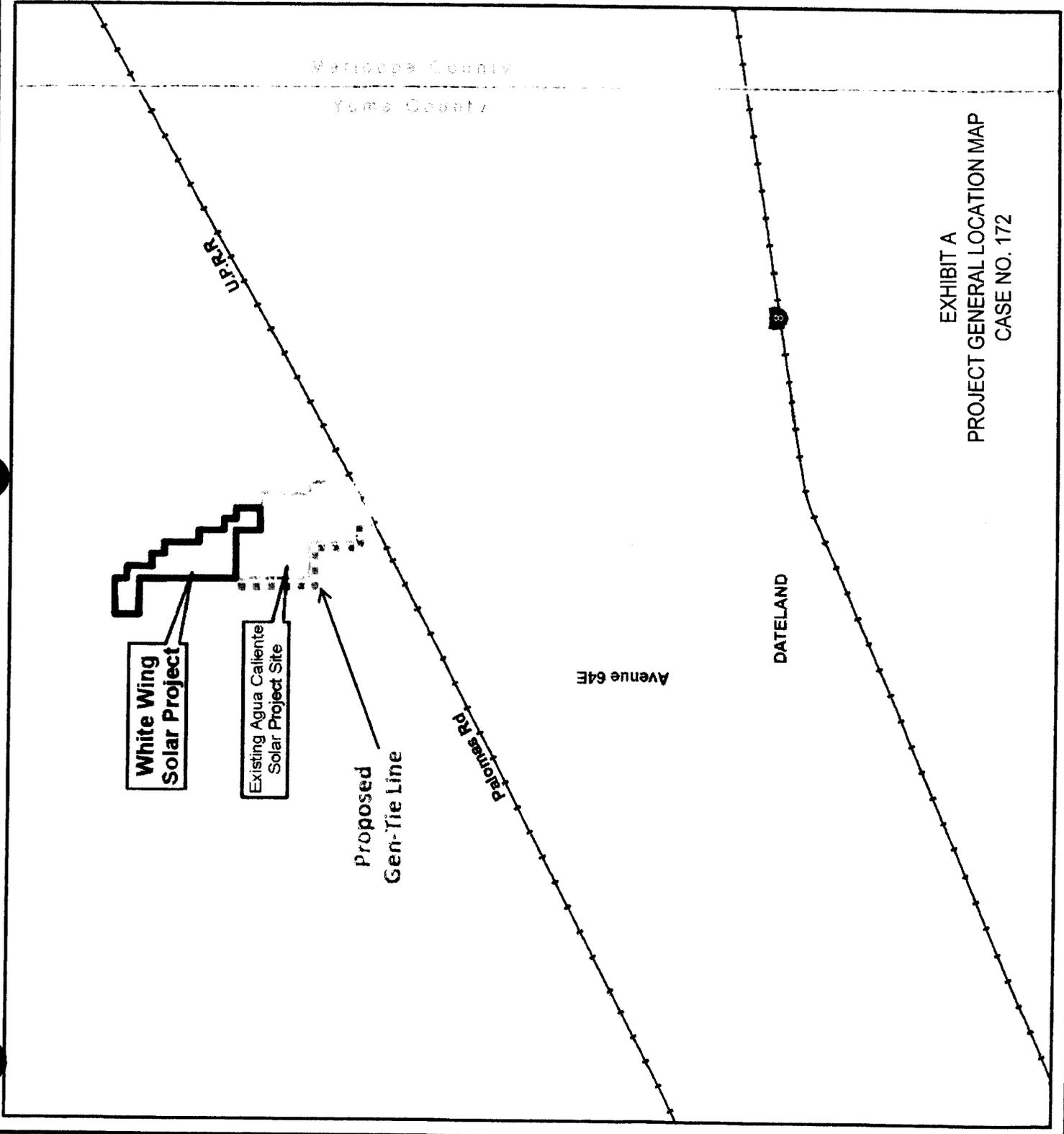
White Wing Solar Project

Existing Agua Caliente Solar Project Site

County Boundary



<b>WHITE WING GEN-TIE PROJECT</b>	
<b>PROJECT LOCATION</b>	
Map Extent: Yuma County, Arizona	
Date: 8/23/16	Author: SW



**EXHIBIT A**  
**PROJECT GENERAL LOCATION MAP**  
**CASE NO. 172**

COMMISSIONERS  
DOUG LITTLE – Chairman  
BOB STUMP  
BOB BURNS  
TOM FORESE  
ANDY TOBIN



JODI JERICH  
Executive Director

ARIZONA CORPORATION COMMISSION

AZ CORP COMMISSION  
September 1, 2016  
DOCKET CONTROL

2016 SEP 1 PM 3 43

Mr. Thomas K. Chenal,  
Chairman  
Arizona Power Plant and  
Transmission Line Siting Committee  
Assistant Arizona Attorney General  
1275 West Washington Street  
Phoenix, Arizona 85007

RE: WHITE WING RANCH NORTH, LLC GEN-TIE LINE SITING #172 - APPLICATION  
FOR CEC (DOCKET NO. L-00000ZZ-16-0269-00172)

Dear Chairman Chenal:

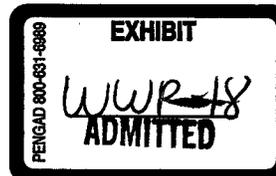
On August 15, 2016, you sent a letter concerning the White Wing Ranch North, LLC (“White Wing”) application for the issuance of a Certificate of Environmental Compatibility (“CEC”) for a generation tie transmission line of either 500kV, 230kV, or 115kV and associated substation facilities (collectively, “Gen-tie”) interconnecting a proposed 200MW solar PV generating facility to the 500kV Hoodoo Wash substation in Yuma County, Arizona. White Wing has indicated in their application that they are conducting studies for interconnection at 500kV, and have requested a CEC for a Gen-tie for all three Gen-tie transmission line alternatives.

This letter is the Utility Division’s response to that letter addressing the question of whether the proposed project improves the reliability or safety of the operation of the grid.

**Does the proposed project improve the reliability and/or safety of operation of the grid and the delivery of power in Arizona?**

The White Wing project is a 3.5-mile long transmission line that connects a proposed 200MW solar PV generating facility to the grid at the existing Hoodoo Wash substation. The application requests approval for the option to use transmission-line voltages of 115kV, 230kV, or 500kV to connect from the PV facility to the Hoodoo substation.

If the Gen-tie uses the 500kV transmission-line option, one intermediate substation will be required to step up the incoming voltage from the PV facility from 34.5kV to 500kV in order to interconnect at the Hoodoo Wash substation. If the 115kV or 230kV transmission-line options are used, two intermediate substations will be required: the first to step up from 34.5kV to either 115kV or 230kV, and the second to step up from 115kV/230kV, to 500kV to interconnect at the Hoodoo Wash substation. The primary advantage of one voltage level over the other is economic. White Wing requests the option to determine what combination of high-voltage lines and step-up substations would be appropriate based on market conditions at the time construction on the project is initiated.



In response to a Data Request ("DR") issued by Staff, legal counsel for White Wing provided Staff with copies of the system impact study completed by Arizona Public Service Company ("APS") in November 2015. The study was for interconnection at 500kV and was also filed in the Ninth Biennial Transmission Assessment ("BTA") in Docket No. E-00000D-15-0001.

The BTA, which requires that ten-year plans be filed for all electric transmission lines and power plants in Arizona, is used to determine the adequacy of existing and planned transmission facilities in meeting the present and future needs of the state. The studies appear to be properly completed and were performed in line with North American Electric Reliability ("NERC") and Western Electricity Coordination ("WECC") reliability criteria.

The system impact studies indicate system upgrades are required for the Gen-tie at Hoodoo Wash substation and include power flow, transient stability, and short circuit analysis. The studies show no negative impacts on grid reliability and safety provided the interconnection is in compliance with the generation interconnection agreement and operated in accordance with good utility practice and applicable reliability standards.

In the DR response, White Wing also indicated that the project may add to the high fault current problem already identified by Salt River Project ("SRP") in its Hassayampa switchyard. This problem is currently being addressed by SRP.

Staff believes that the proposed project will improve the reliability and safety of the grid as well as the delivery of power in Arizona. It will also add to clean energy resources by facilitating an increased capacity of renewable generation resources in the state of Arizona.

Due to the existence of gas pipelines (albeit scheduled to be disconnected, abandoned, or removed prior to project construction) in the vicinity of the White Wing Solar PV field, the Utilities Division recommends inclusion, as a condition to any CEC the Siting Committee may issue, of the standard cathodic study condition to evaluate the risk to any existing natural gas or hazardous liquid pipelines as follows:

When project facilities are located parallel to and within 100 feet of any existing natural gas or hazardous liquid pipeline, Applicant shall:

- (a) Ensure grounding and cathodic protection measurements are performed to show that the project's location parallel to and within 100 feet of such pipeline results in no material adverse impacts to the pipeline or to public safety when both the pipeline and the project are in operation. Applicant shall take appropriate steps to ensure that any material adverse impacts are mitigated. Applicant shall provide to Commission Staff and file with Docket Control a copy of the measurements performed and additional mitigation, if any, that was implemented as part of its annual compliance-certification letter; and

- (b) Ensure that measurements are taken during an outage simulation of the project that may be caused by the collocation of the project parallel to and within 100 feet of the existing natural gas or hazardous liquid pipeline. The measurements should either: i) show that such simulated outage does not result in customer outages; or ii) include operating plans to minimize any resulting customer outages. Applicant shall provide a copy of the measurement results to Commission Staff and file it with Docket Control as part of its annual compliance-certification letter.”

If you have any questions, please feel free to contact me, at (602) 542-7270 or Dr. Nonso C-Emordi at (602) 542-7269.

Sincerely,



for

Thomas M. Broderick  
Director  
Utilities Division

TMB:CCE:red

White Wing Ranch North, LLC  
Docket No. L-00000ZZ-16-0269-00172

On this 1st day of September, 2016, the foregoing document was filed with Docket Control as a Utilities Division Correspondence, and copies of the foregoing were mailed on behalf of the Utilities Division to the following who have not consented to email service. On this date or as soon as possible thereafter, the Commission's eDocket program will automatically email a link to the foregoing to the following who have consented to email service.

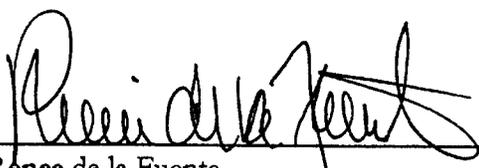
Mr. Jay Moyes  
Moyes Sellers & Hendricks, Ltd.  
1850 North Central Avenue, Suite 1100  
Phoenix, Arizona 85004

Mr. Max Bakker  
First Solar  
135 Main Street, 6<sup>th</sup> Floor  
San Francisco, California 94105

Ms. Beth Deane  
First Solar  
135 Main Street, 6<sup>th</sup> Floor  
San Francisco, California 94105

Mr. Thomas M. Broderick  
Director, Utilities Division  
Arizona Corporation Commission  
1200 West Washington Street  
Phoenix, Arizona 85007

Ms. Janice Alward  
Chief Counsel, Legal Division  
Arizona Corporation Commission  
1200 West Washington Street  
Phoenix, Arizona 85007

By:   
Renee de la Fuente  
Administrative Support Specialist



1 ORIGINAL & 25 copies of the  
2 Foregoing were filed with Docket  
3 Control on the 1<sup>st</sup> day of September, 2016.

4 Copies were electronically delivered  
5 The 1<sup>st</sup> day of September, 2016 to:

6 Thomas K. Chenal, Chairman  
7 Arizona Power Plant and Transmission  
8 Line Sitting Committee  
9 1275 W. Washington  
10 Phoenix, AZ 85007  
11 Thomas.chenal@azag.gov

12 Janice Alward, Esq.  
13 Legal Division  
14 Arizona Corporation Commission  
15 1275 W. Washington  
16 Phoenix, AZ 85007  
17 JAlward@azcc.gov

18 Thomas Broderick  
19 Utilities Division  
20 Arizona Corporation Commission  
21 1275 W. Washington  
22 Phoenix, AZ 85007  
23 tbroderick@azcc.gov

24 Dwight Nodes  
25 Arizona Corporation Commission  
26 1275 W. Washington  
Phoenix, AZ 85007  
dnodes@azcc.gov

Marta T. Hetzer  
Coash & Coash  
1802 N. 7<sup>th</sup> Street  
Phoenix, AZ 85006  
mh@coashandcoash.com



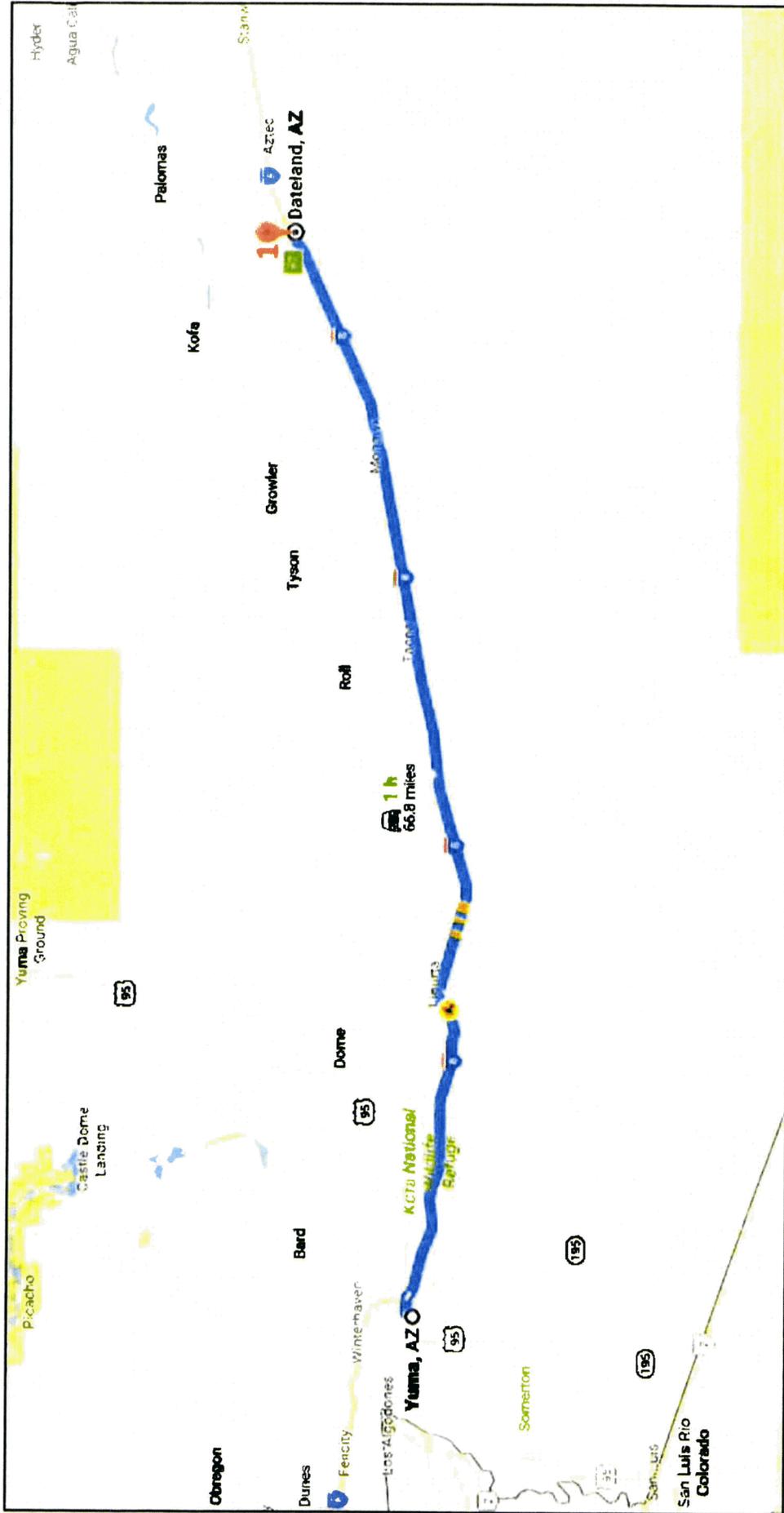
**WHITE WING GEN-TIE PROJECT**  
**SITING COMMITTEE TOUR PROTOCOL & ITINERARY**  
**SEPTEMBER 12, 2016**

**PROTOCOL:**

1. Members of the Siting Committee and representatives of the Applicant will travel together on one bus to and from the Project site. If there are other formal Parties in the case, their representative(s) will also be invited to travel on the bus, space allowing.
2. The Court Reporter will travel on the same bus.
3. No discussion of the Project will take place between the Committee and Applicant representatives except on the record at the designated stop Numbers 2-5, as indicated on the Tour Map. (Stop Number 1 is a restroom break at the Dateland School.)
4. At each stop, prior to any substantive discussion, all participants may exit the bus; or they all may remain on the bus at the discretion of the Chairman, depending upon the number of "public" participants in the tour using private vehicles. If the outside temperature is high (as expected) and public members (and or other Parties in the Case) are few enough to be accommodated *inside* the bus, public participants could be invited onto the bus to hear discussion on the record. Otherwise, all participants will congregate outside the bus for testimony and discussion on the record.
5. At each stop a representative of Applicant will state for the record the number of the stop as indicated on the map, and briefly describe the relevant features observable from that location. The Chairman will conduct the extent of any substantive question and answer follow-up between the Committee and the Applicant representative(s), all of which shall be done on the record and within the hearing of all participants, including public.

**Site Tour Itinerary Details - White Wing Gen-tie Project**

	<b>Location</b>	<b>Arrive</b>	<b>Depart</b>
Departure	Hampton Inn & Suites --Yuma	NA	1.30
Stop 1	Dateland School (Restroom)	2.30	2.45
Stop 2	KOP 1	3.00	3.05
Stop 3	KOP 2	3.10	3.15
Stop 4	Solar Site Substation	3.30	3.40
Stop 5	Step-Up Substation	3.50	4.00
Return	Hampton Inn & Suites - Yuma	5.00	NA



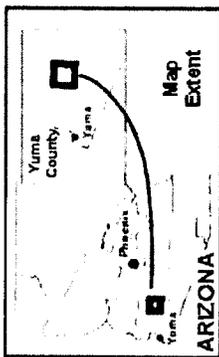
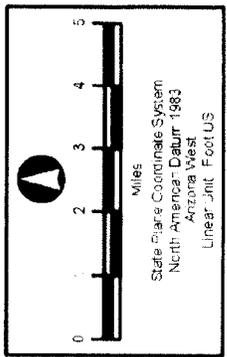
## WHITE WING GEN-TIE PROJECT PROPOSED FIELD TOUR

Route Between Yuma and Dateland, Arizona on I-8  
Dateland School – Tour Stop #1

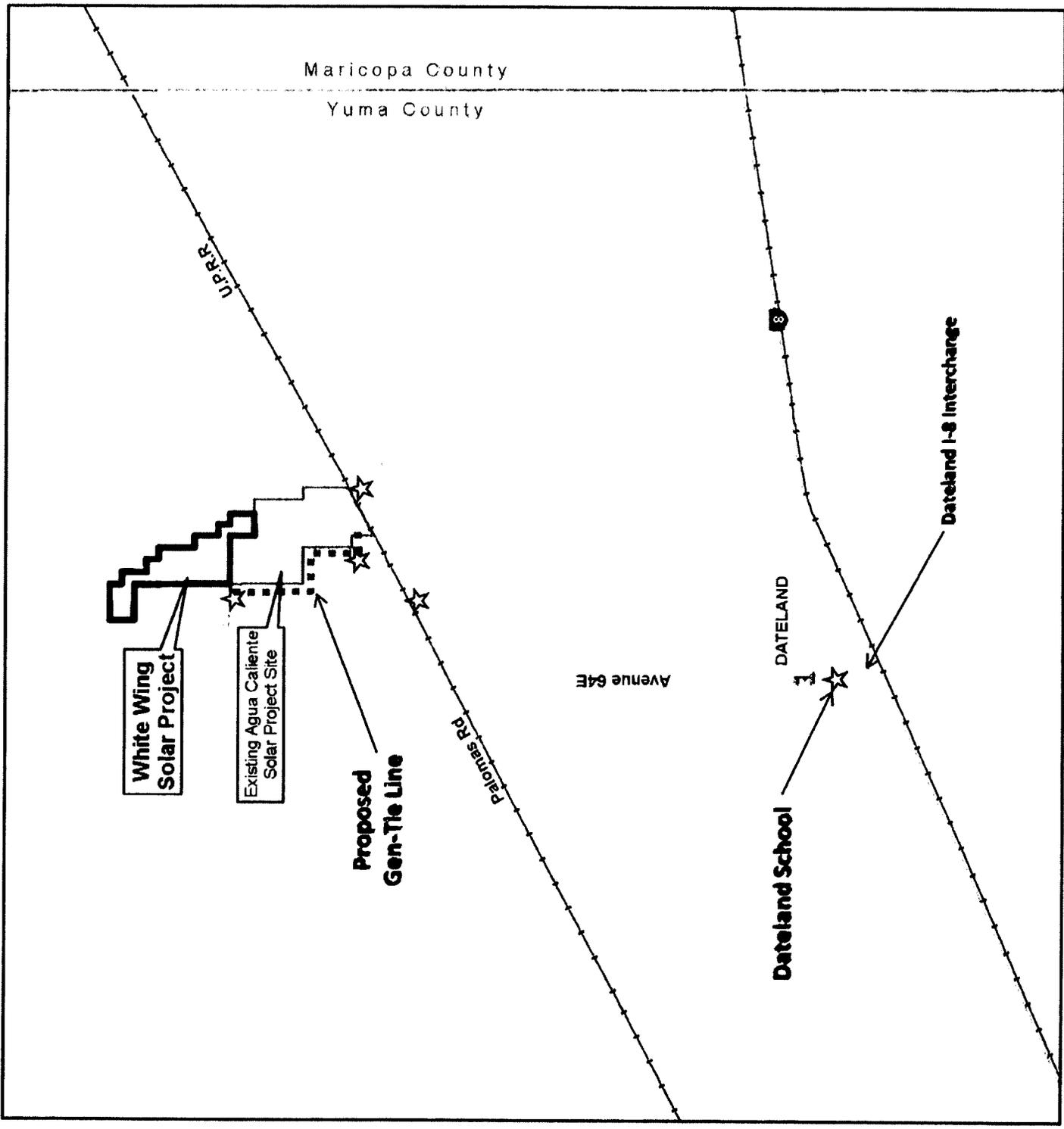
**Legend**

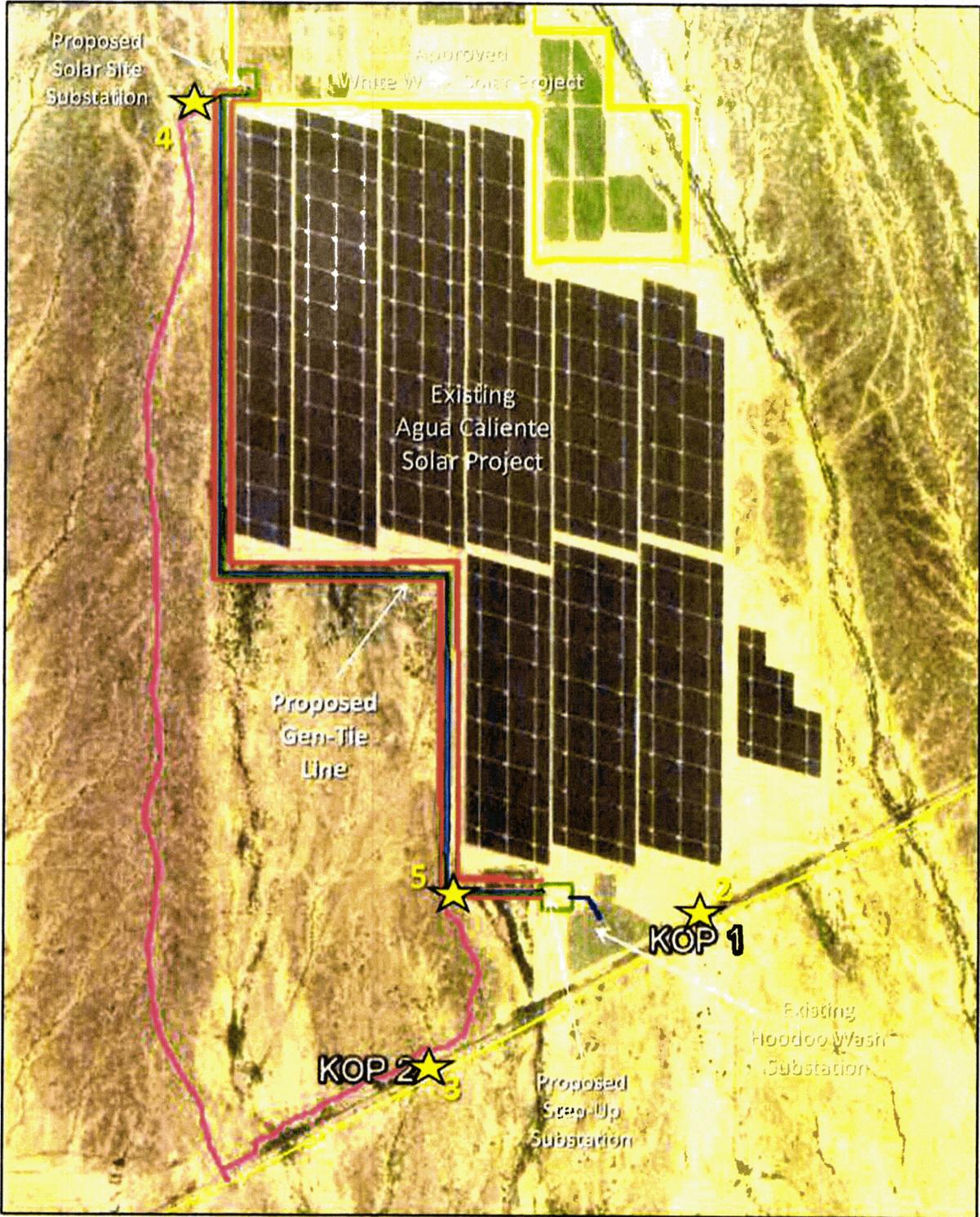
- Interstate Highway
- Road
- Railroad
- White Wing Solar Project
- Existing Agua Caliente Solar Project Site
- County Boundary

Tour Stop Number



<b>WHITE WING GEN-TIE PROJECT</b>	
<b>Field Tour Map</b>	
Map Extent: Yuma County, Arizona	
Scale: 6.25" = 1 Mile	Date: 1/11/11





-  Tour Stop
-  Tour Route
-  Tour Stop Number

**WHITE WING GEN-TIE PROJECT  
PROPOSED FIELD TOUR**



EXHIBIT  
LWR-20  
ADMITTED  
PENGAD 800-631-6989

Figure E-3b  
Visual Simulation from KOP 1  
Looking West-Northwest from Palomas / Hyder Road



**Figure E-4a**  
**Existing View from KOP 2**  
Looking Northeast from Palomas / Hyder Road

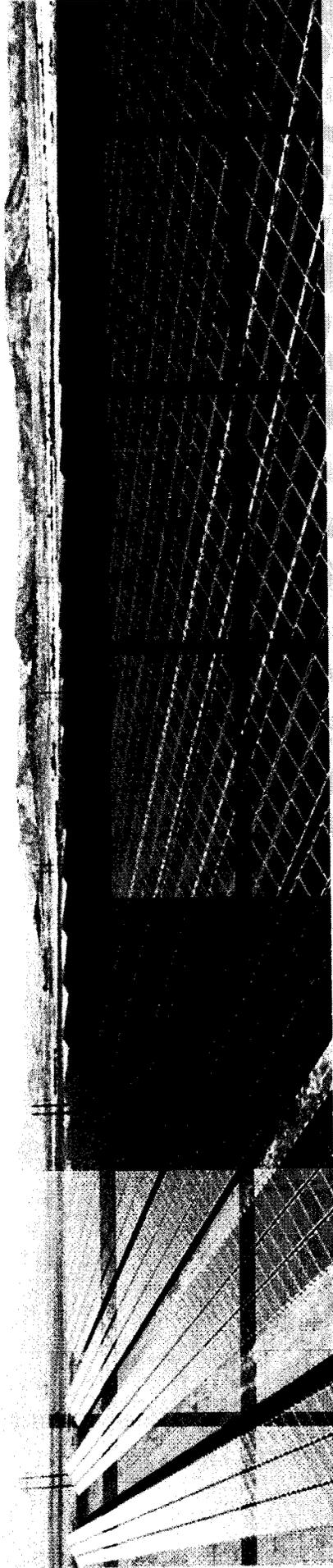


▲ 2 ▲ STEP UP SUBSTATION ▲ A FRAME ADDITION

**Figure E-4b**  
**Visual Simulation from KOP 2**  
Looking Northeast from Palomas / Hyder Road



**Figure E-3a**  
**Existing View from KOP 1**  
Looking West-Northwest from Palomas / Hyder Road



# White Wing Gen-Tie Project

Siting Committee Hearing – September 12, 2016

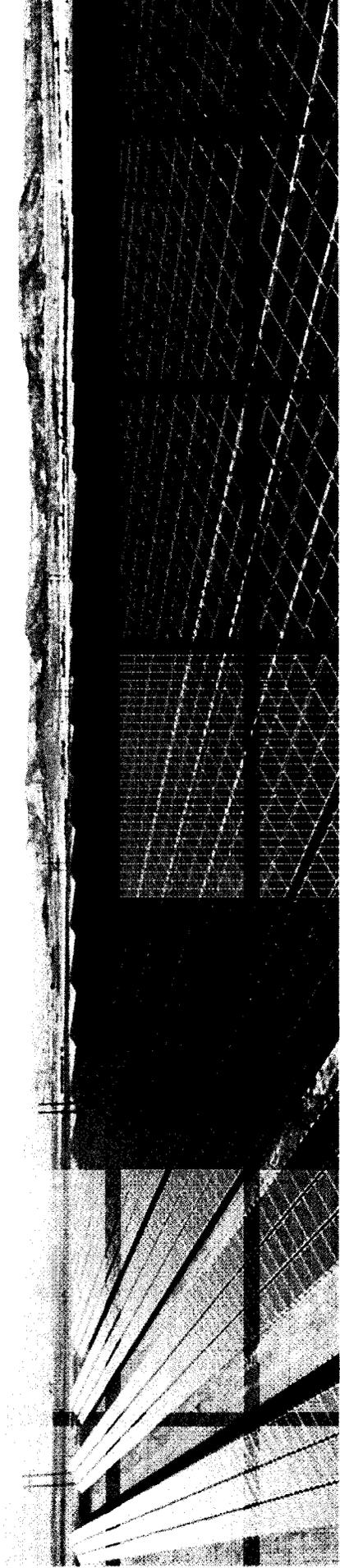


## Presentation Outline

- **Opening Statement:** Jason Moyes
- **Witness 1:**
  - Kathryn Arbeit
- **Witness Panel 2:**
  - **Project Overview:** Max Bakker
  - **Discussion of Transmission Interconnection:** Jim Filippi
  - **Discussion of Environmental Compatibility Factors:** Randy Schroeder
- **Summary :** Jason Moyes
- **Discussion of CEC Conditions:** Jason and Jay Moyes



First Solar.



First Solar.

# First Solar Overview

Kathryn Arbeit

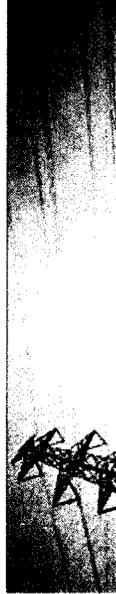
# First Solar at a Glance



First Solar.



Over 10GW installed worldwide and a 3.3GW contracted pipeline



Cost competitive with conventional energy sources today



Partner of choice for leading utilities and global power buyers



Driving innovation across entire value chain and plant solution



Strongest financial stability & bankability in the industry



Founded in 1999 and publicly traded on Nasdaq (FSLR)

# First Solar's Integrated Solar Power Solutions



Module Manufacturing



Project Development



Engineering, Procurement, Construction

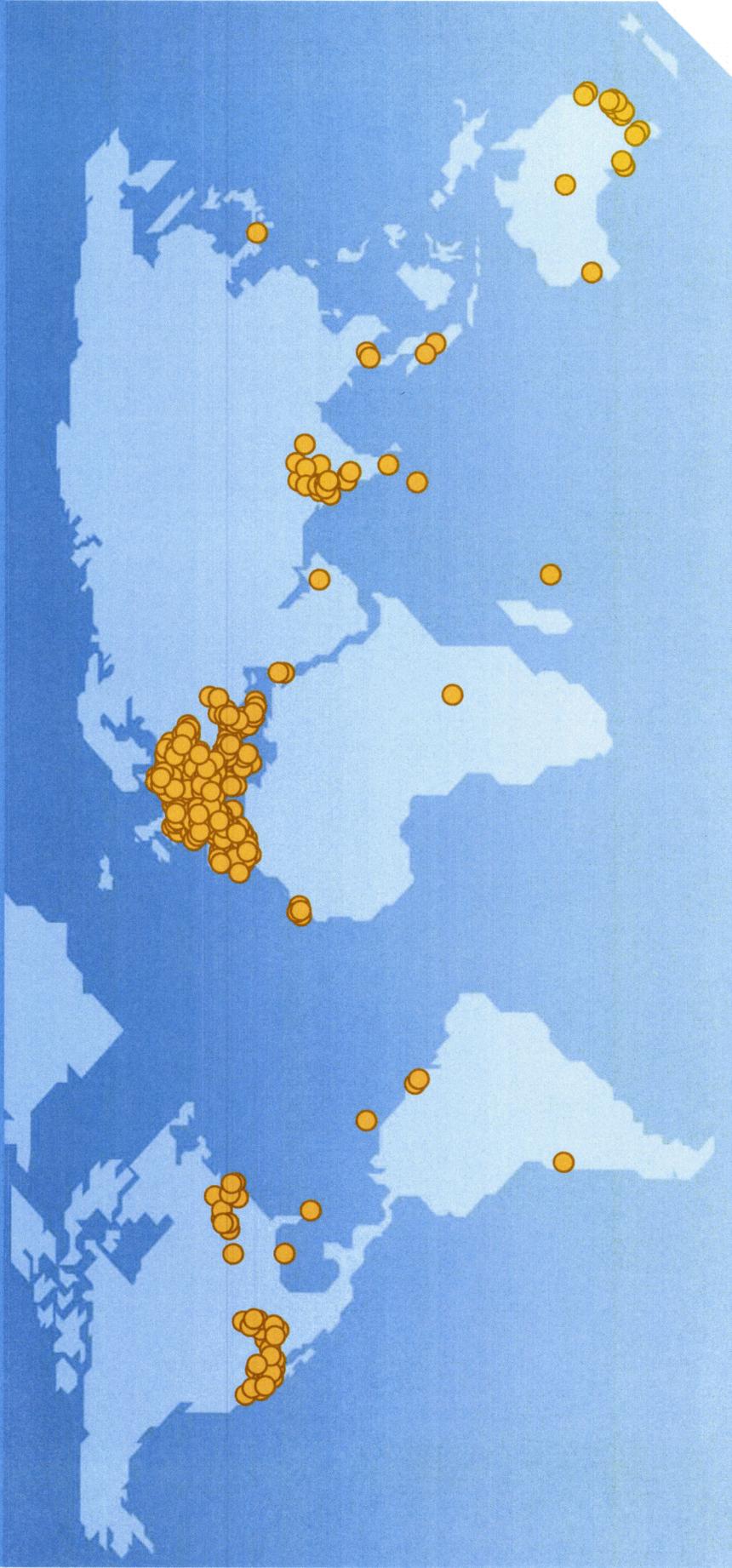


Operations & Maintenance

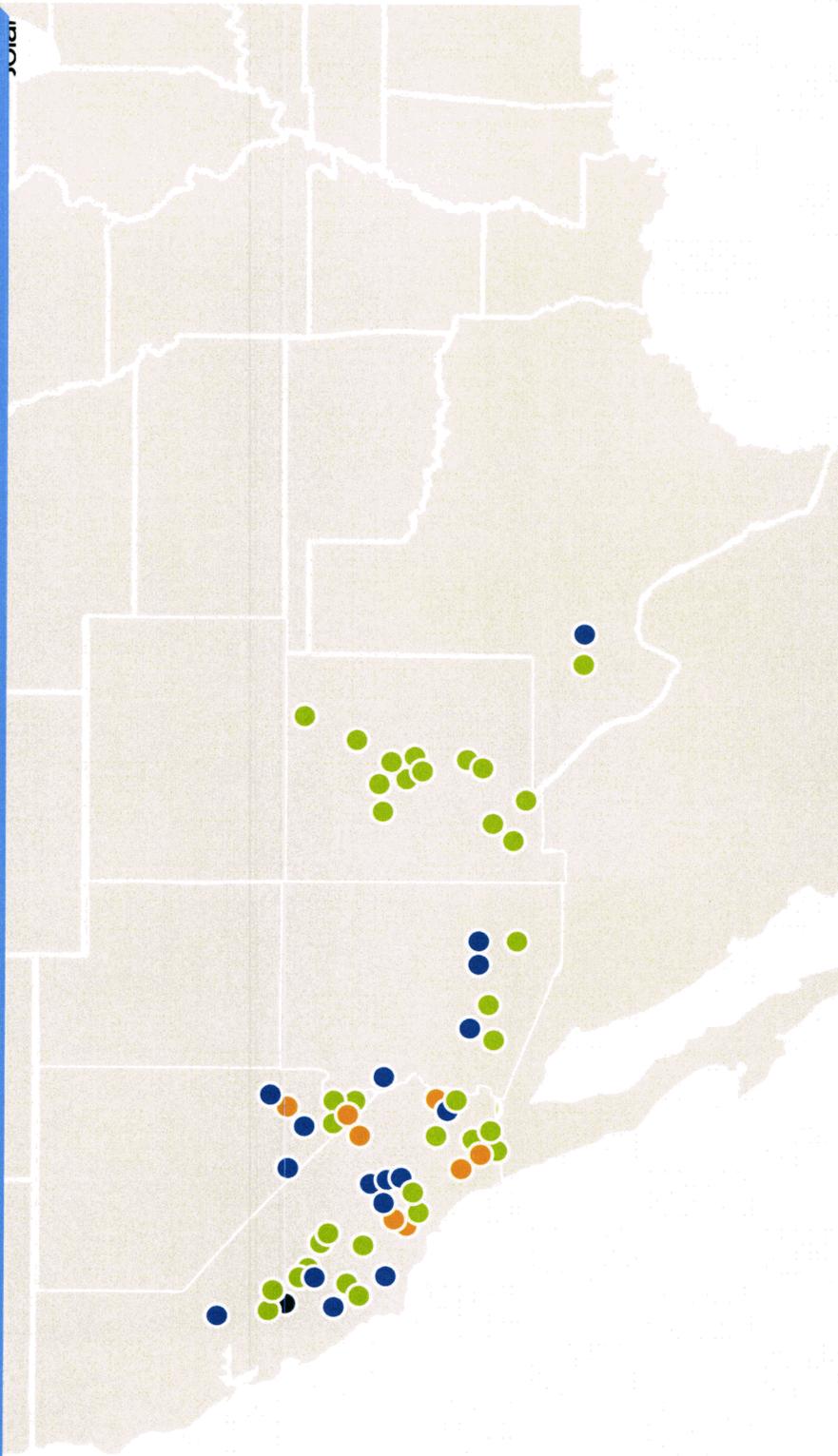


Clean, Affordable, Sustainable Utility-Scale PV

# 10GW+ Global Installations



# First Solar in the Southwest- Over 6GW of Projects with First Solar Technology



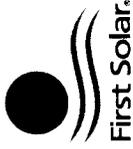
- In Operation
- Under Construction
- In Development

## PV Technology

- Generates electricity with no water, air emissions or waste production
- Passive technology supports responsible land stewardship
- Land may be returned to previous use at end of life
- Minimal visual impact - low visual profile
- Minimal lighting required at night

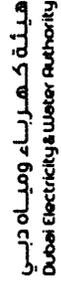
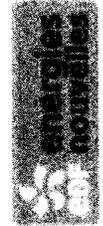
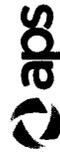


## Partnering with Leading Global Power Buyers

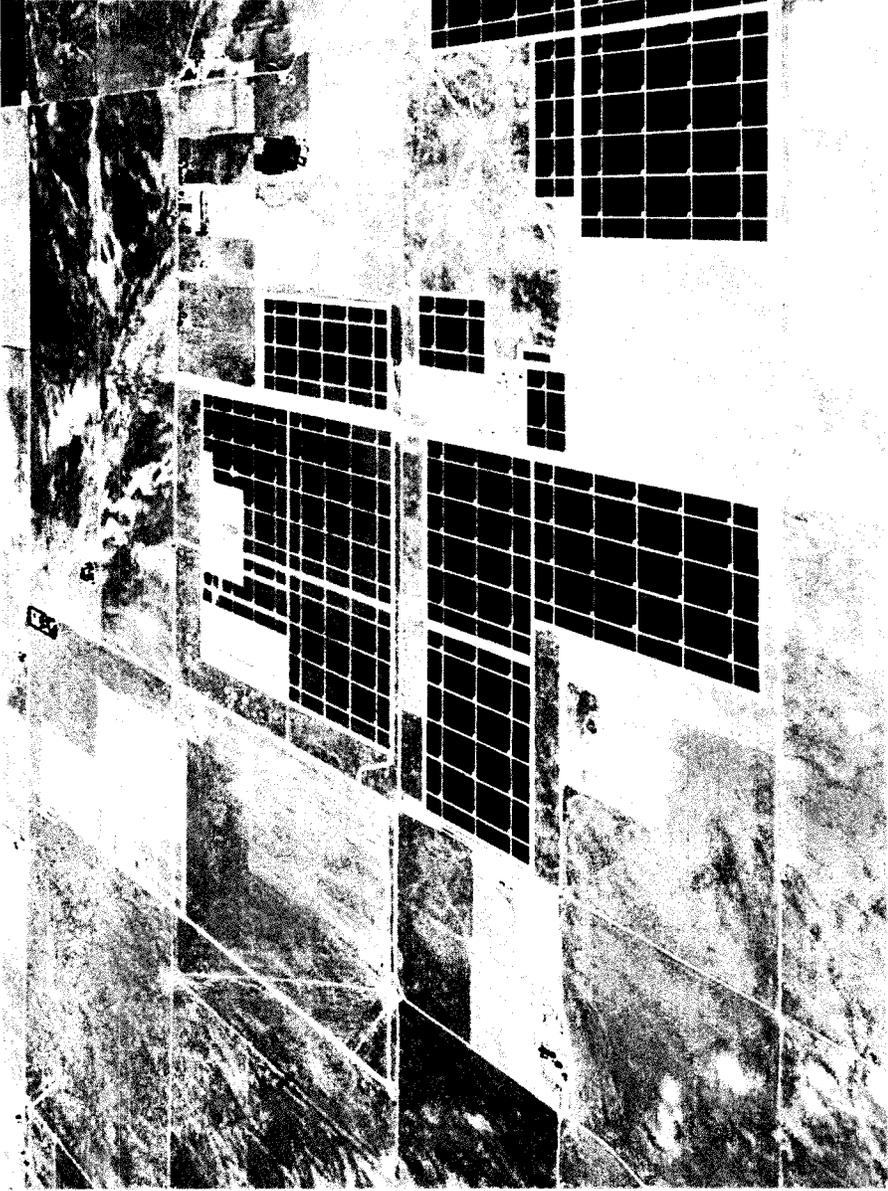


“ We are very proud to be working with First Solar, who has a reputation for the delivery of world class renewable energy projects internationally.”

Michael Librizzi, General Manager Midwest for WBHO Civil

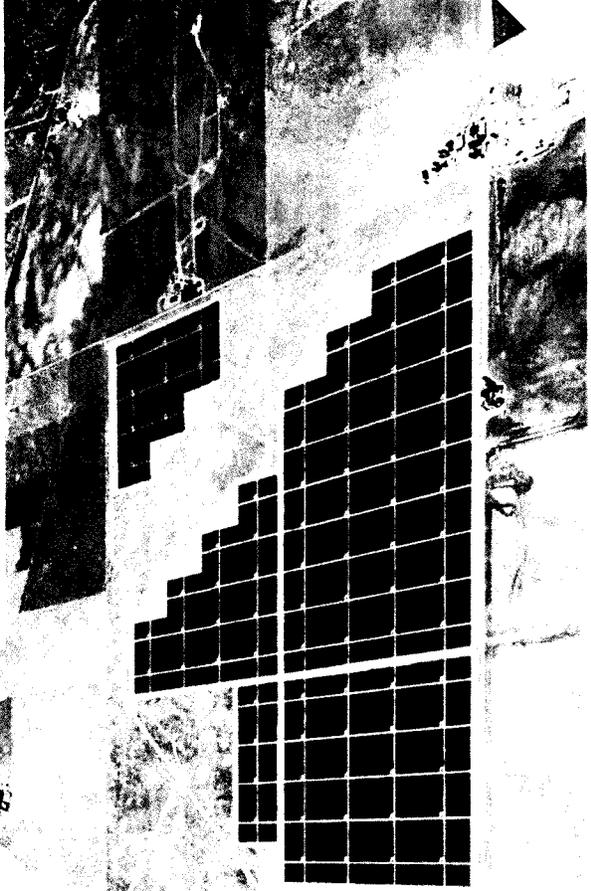


Track record of delivering to leading utilities and energy investors

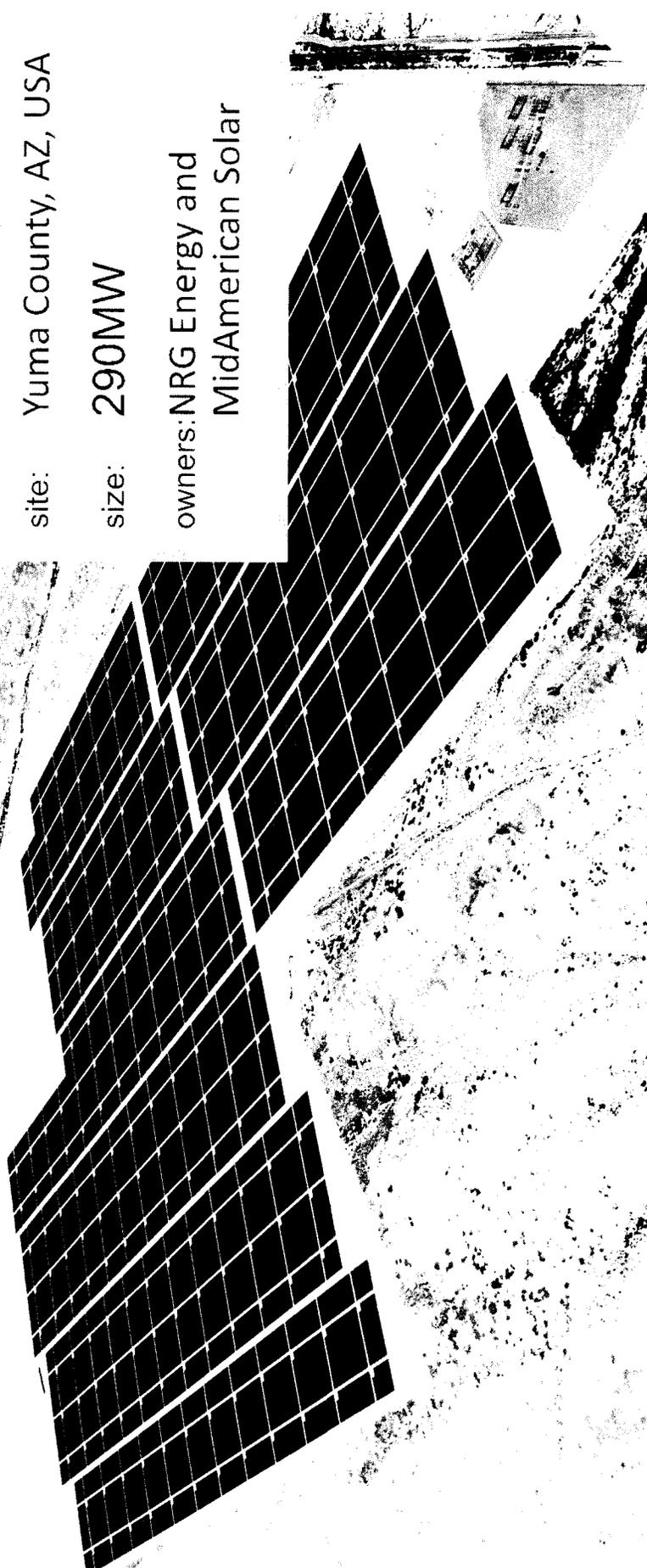


site: San Luis Obispo, USA

size: 550MW



Largest utility scale solar plant in the world

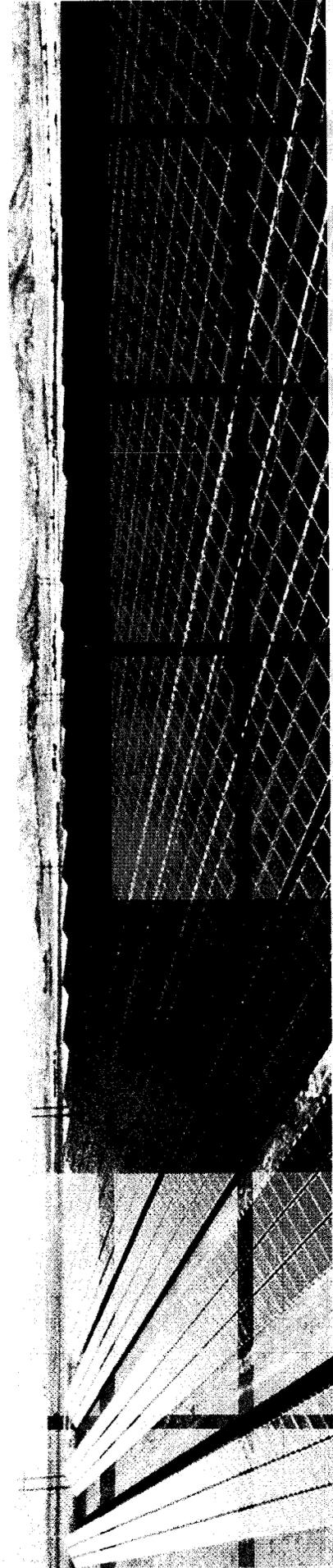


site: Yuma County, AZ, USA

size: 290MW

owners: NRG Energy and  
MidAmerican Solar

Reliable bulk power generation utilizing advanced plant controls and forecasting



# White Wing Gen-tie Project Overview

Max Bakker



First Solar.

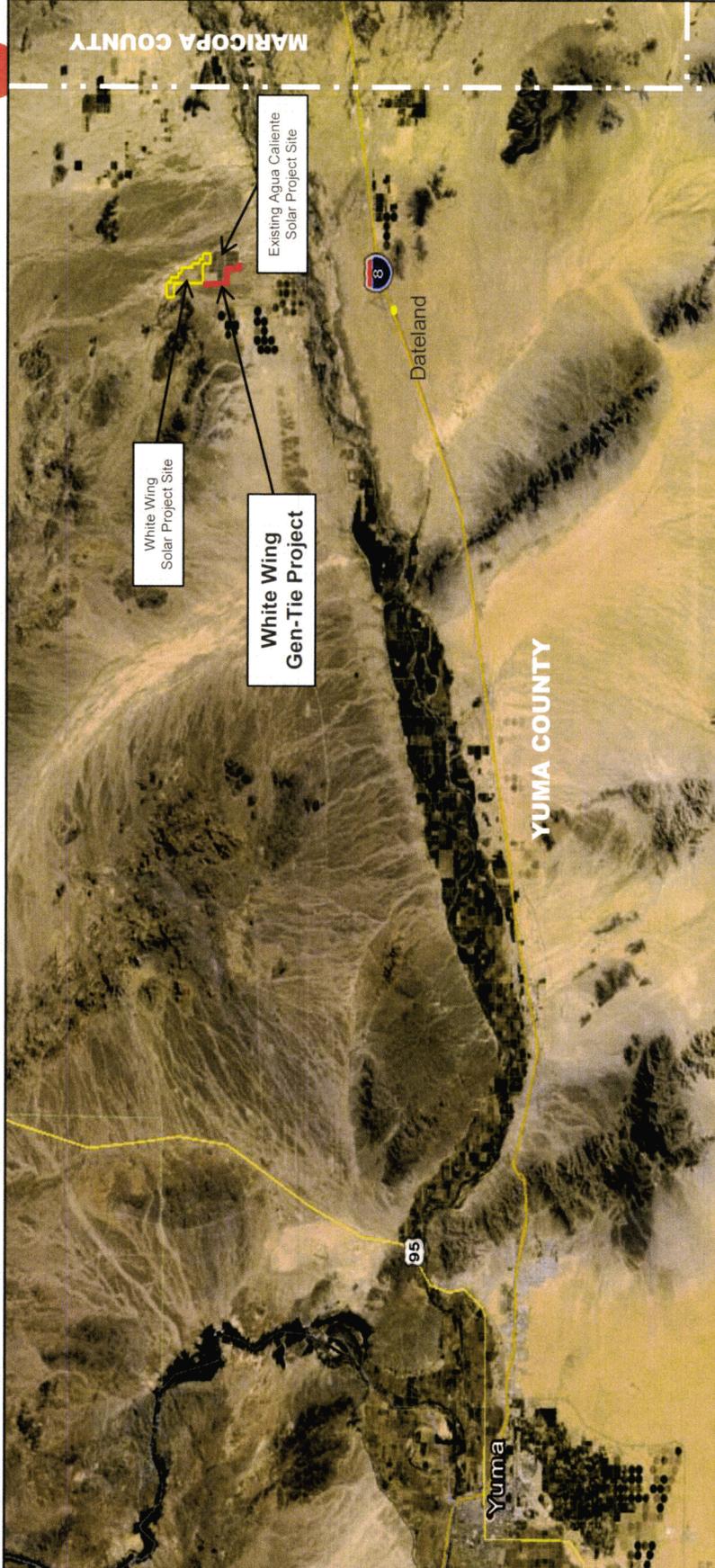


# White Wing Gen-tie Project Overview



## Location

- Eastern Yuma County
- North of Dateland
- Adjacent to existing Agua Caliente Solar Project
- Among existing generation, transmission and substation facilities



**White Wing Gen-Tie Project**  
Project Location



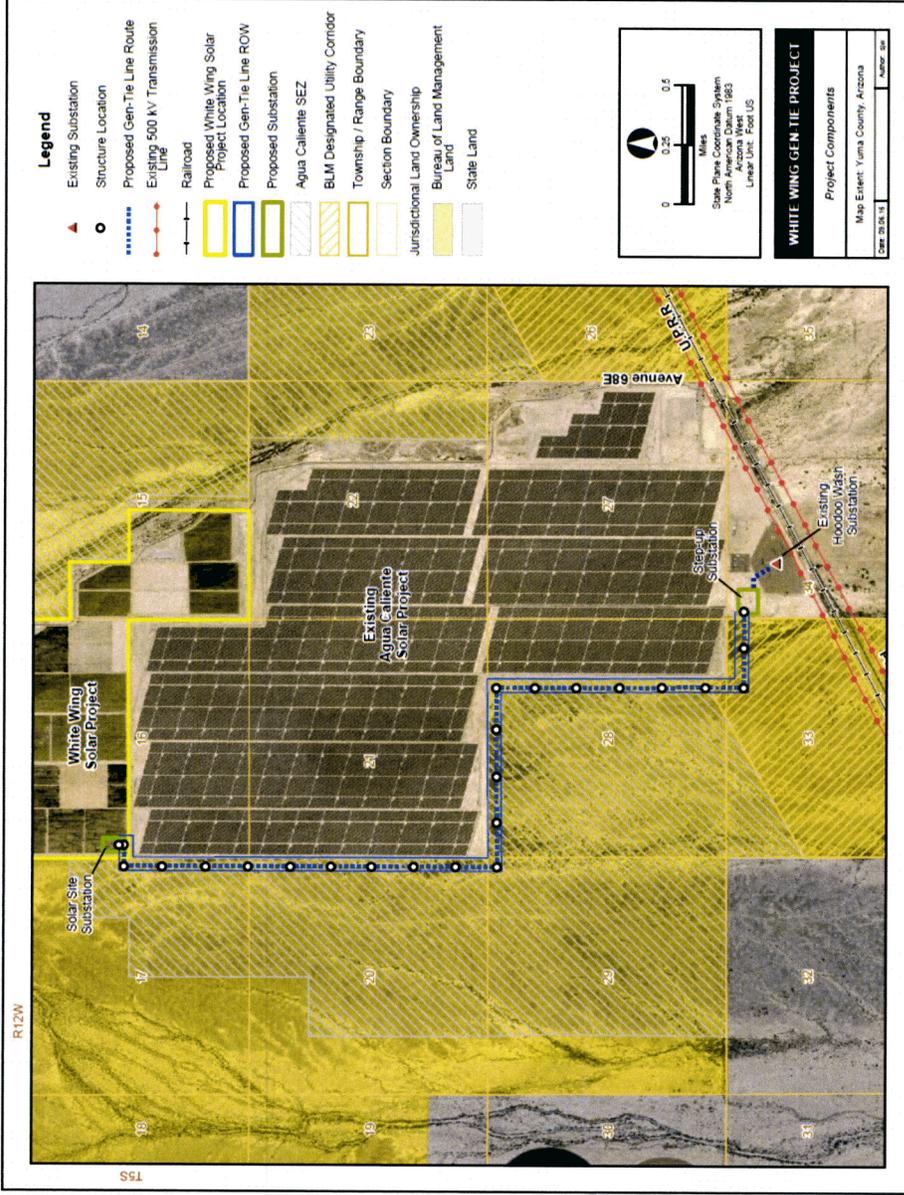
## White Wing Gen-tie Project Overview



- New Solar Site Substation
  - On private lands approved as part of White Wing Solar Project SUP
- 3.5-mile 115 to 500kV Gen-tie line
  - Mostly on BLM lands approved for transmission uses – Agua Caliente SEZ and designated utility corridor
  - Adjacent to existing Agua Caliente Solar Project for entire length
- A new Step-up Substation if the line is built at 230 or 115kV
  - On private lands approved as part of existing Agua Caliente Solar Project
- Interconnecting with existing Hoodoo Wash Substation at open 500kV bay position

*The Gen-tie Project is located on private lands controlled by the Applicant, federal lands managed by the BLM, and the existing Hoodoo Wash Substation*

# White Wing Gen-tie Project Overview



- Legend**
- Existing Substation
  - Structure Location
  - Proposed Gen-Tie Line Route
  - Existing 500 kV Transmission Line
  - Railroad
  - Proposed White Wing Solar Project Location
  - Proposed Gen-Tie Line ROW
  - Proposed Substation
  - Agua Caliente SEZ
  - BLM Designated Utility Corridor
  - Township / Range Boundary
  - Section Boundary
  - Jurisdictional Land Ownership
  - Bureau of Land Management Land
  - State Land



WHITE WING GEN-TIE PROJECT	
Project Components	
Map Extent:	Yuma County, Arizona
Date:	2/16/15
Author:	SR

White Wing Gen-tie Project Overview



# *Project Flyover*

## White Wing Solar Project Overview Information



- 210 MWs on 1,450 acres
- Permitted by Yuma County (SUP)
- Photovoltaic (PV) Technology
- Thin-film Panels on Single-Axis Trackers
- Power Conversion Stations / DC-AC Inverters
- Collection & 34.5kV Step-up System
- O&M Building(s)
- Other Typical Project Infrastructure

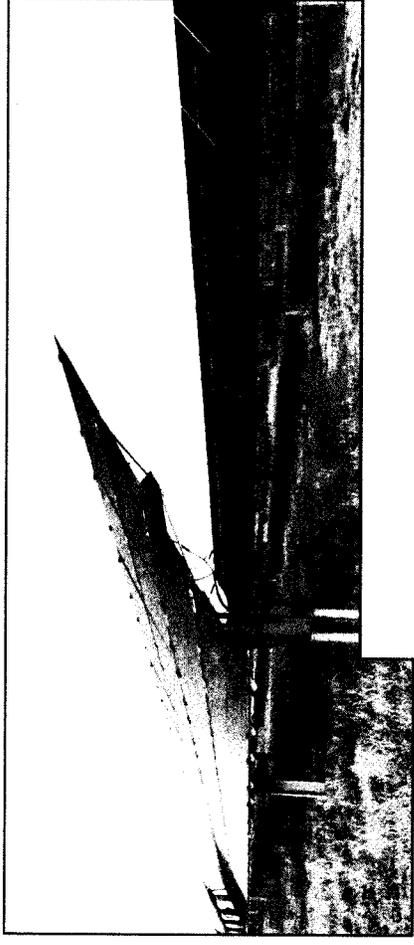


# White Wing Solar Facility – Mounting

First Solar<sup>®</sup>

## Single-Axis Trackers

Proposed for White Wing Solar Project



## Fixed-Tilt

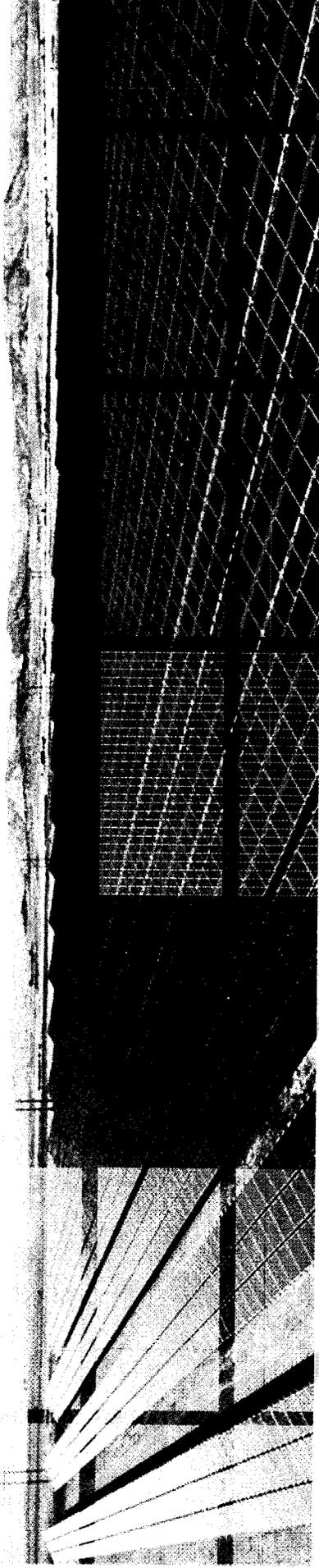
Used for existing Agua Caliente Solar Project



## White Wing Solar Marketing Status

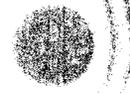


- Actively Pursuing a Customer for the 210 MWs output
- Gen-tie Project Needed to Deliver Power to Grid / Customer
  - Via Hoodoo Wash Substation into CAISO or "Palo Verde Hub" marketplace
- Having CEC and SUP in hand enhances marketability to customers and financing



# White Wing Gen-tie Interconnection

Jim Filippi

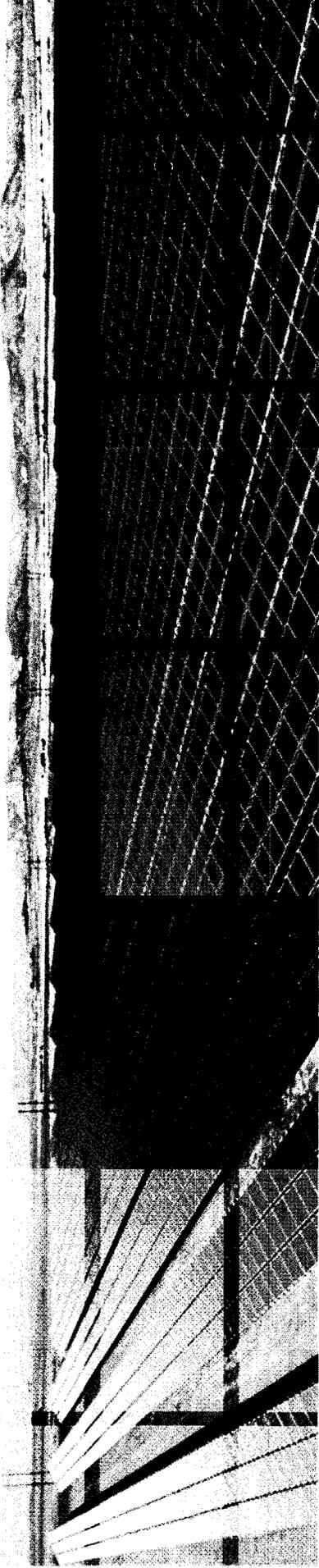


First Solar.

## White Wing Interconnection Contractual Arrangements



- **Interconnection:** White Wing Solar will interconnect to the Hoodoo Wash 500 kV bus, which is owned by APS, SDG&E, and IID.
  - The interconnection studies, which include the System Impact Study and the Interconnection Facilities Study, have been completed. Ten Year Plan submitted to ACC January 2016. ACC Staff has responded favorably after review - see letter dated September 1, 2016 from Utilities Division Director Broderick (Exhibit WWR 16).
  - Interconnection Agreement and Construction Agreement in active negotiations which are proceeding satisfactorily.
- Excellent market access to AZ and CA customers.



# White Wing Gen-tie Environmental Compatibility

Randy Schroeder



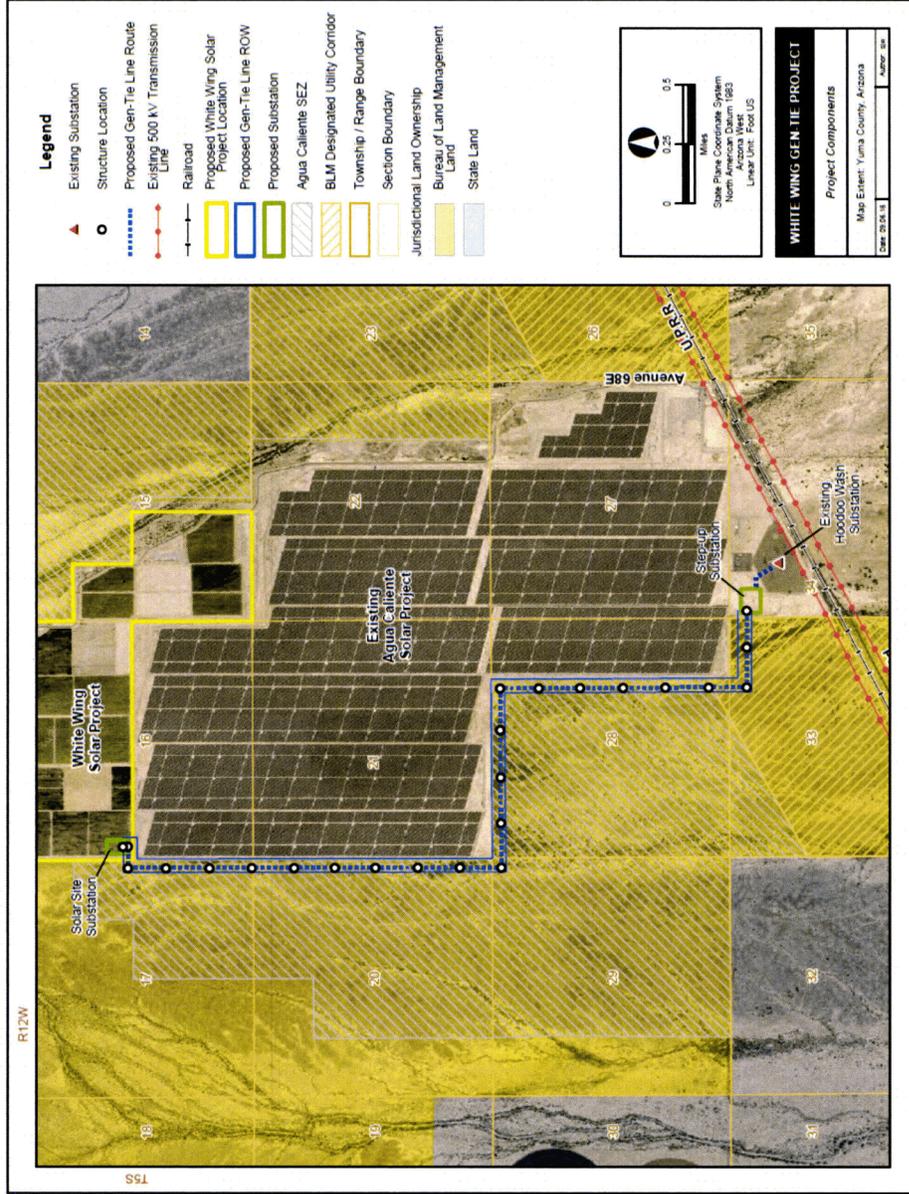
First Solar.

## Environmental Compatibility

- Gen-tie Project occupies Very Small Footprint
- Compatible with Existing Land Uses and Plans for the Area
- Limited Impacts on Biological Resources including Sensitive Species
- No Noticeable Noise, No Interference with Electrical Signals
- No Negative Effects on Recreation, Scenic, or Archaeological/Historical Resources
- Compliant with all Applicable Air and Water Pollution Standards
- Applicant Conducted Public Process to Inform and Solicit Input
  - Mailings, Open House, Toll-free Line, Project Website
  - Few comments received were Supportive
  - Supplemented by Public Process conducted for Solar Project SUP



# White Wing Gen-tie Project

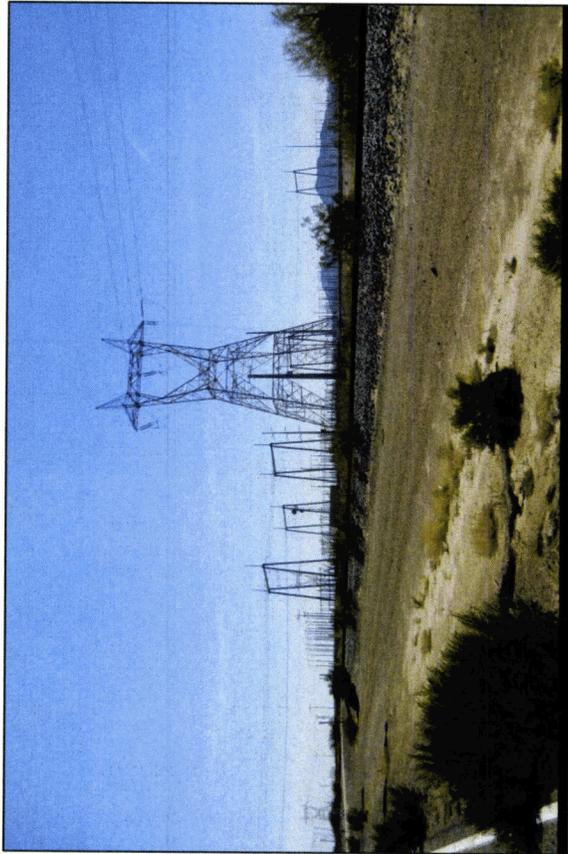


- Legend**
- ▲ Existing Substation
  - Structure Location
  - Proposed Gen-Tie Line Route
  - Existing 500 kV Transmission Line
  - Railroad
  - Proposed White Wing Solar Project Location
  - Proposed Gen-Tie Line ROW
  - Proposed Substation
  - Agua Caliente SEZ
  - BLM Designated Utility Corridor
  - Township / Range Boundary
  - Section Boundary
  - Jurisdictional Land Ownership
  - Bureau of Land Management Land
  - State Land

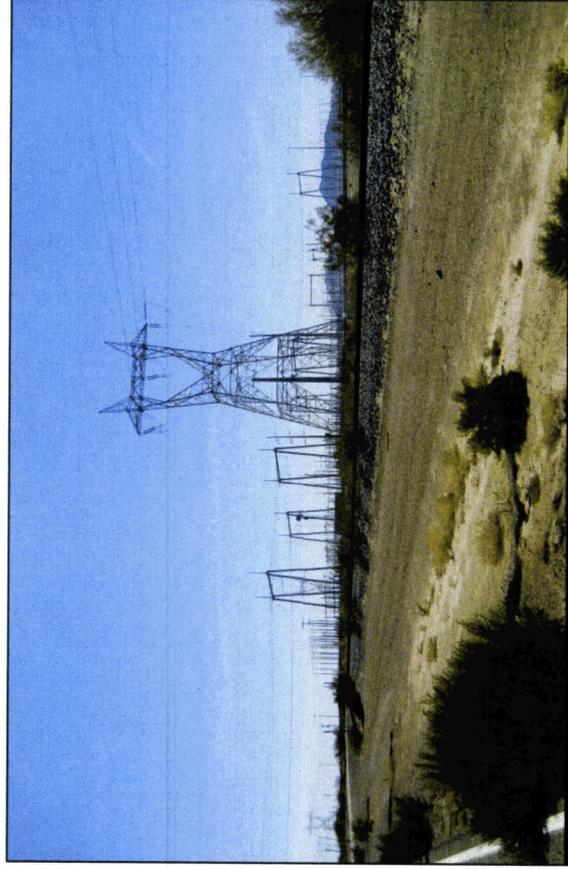


WHITE WING GEN-TIE PROJECT	
Project Components	
Map Extent: Yuma County, Arizona	
Scale: 25' = 1" S	Author: JPL

# Visual Simulation



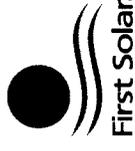
Existing View of White Wing Gen-tie Location  
Looking West – Northwest from Palomas / Hyder Road



Visual Simulation of White Wing Gen-tie Project  
Looking West – Northwest from Palomas / Hyder Road

## Project Benefits

- Construction employment in Yuma County
- Meets County environmental stewardship and renewable energy goals
- Increases state and local tax revenues
- Indirect benefits to local businesses
- Displaces CO<sub>2</sub> otherwise generated by energy production from fossil fuels



# Jennings Strouss

Jennings, Strouss & Salmon, P.L.C.  
Attorneys at Law

One East Washington Street, Suite 1900  
Phoenix, Arizona 85004-2554  
Telephone: 602.262.5911  
www.jsslaw.com

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Kenneth C. Sundlof, Jr.  
Direct Dial: 602.262.5946  
Direct Fax: 602.495.2659  
[sundlof@jsslaw.com](mailto:sundlof@jsslaw.com)

VIA HAND DELIVERY

September 9, 2016

Thomas K. Chenal  
Assistant Attorney General  
Chairman  
Arizona Power Plant and Transmission Line Siting Committee  
1275 West Washington St.  
Phoenix, Arizona 85007

Re: *In the Matter of the Application of White Wing Ranch North, LLC, in Conformance with the Requirements of Arizona Revised Statutes 40-360.03 and 40.360.06, for a Certificate of Environmental Compatibility Authorizing Construction of the White Wing Gen-tie Project, an Approximately 3.5 mile Gen-tie Transmission Line and Associated Substation Facilities Interconnecting to the Existing Hoodoo Wash Substation Approximately 10 miles north and 3 miles East of Dateland, Yuma County, Arizona,*

*Docket No. L-00000ZZ-16-0269-00172,  
Case Number 172*

Dear Chairman Chenal:

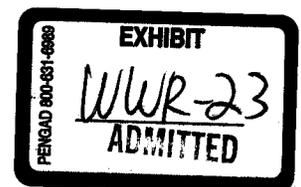
This law firm represents the Imperial Irrigation District ("IID"), which has a concern regarding the gen-tie line that is the subject of this proceeding. We have, as of yesterday, been retained to represent IID in this Docket, so please excuse the late involvement. As explained below, I understand that some off-the-record negotiations recently broke down.

I am requesting late intervention so that a representative of IID can provide testimony on the record. Because of the late notice, I will not be able to be in Yuma in person on the 12th. I am requesting that Robert Laurie, and attorney with IID, be allowed to participate *pro hac vice*. Mr. Laurie is a member of the California bar, in good standing, and is well versed in the issues at hand and the environmental siting process. Mr. Laurie's contact information is:

**ROBERT A. LAURIE**  
Assistant General Counsel, Energy  
Imperial Irrigation District  
E-mail: [ralaurie@iid.com](mailto:ralaurie@iid.com)  
Cell: (760) 791-1094

Phoenix ▶ Peoria ▶ Washington, DC

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If the request for pro hac vice status is not granted, then I ask that the IID witnesses (including Mr. Laurie) simply be allowed to take the witness stand and provide testimony along the lines of this letter. In the event that you determine that this request for intervention is too late, I am requesting that this letter, and the statement of the IID representative, be accepted as public comment.

As discussed below, the matter at issue here involves the impact of the line on reliability as well as public safety. The concern of IID can be addressed by the addition of simply one condition to the CEC order. The requested condition is:

*Prior to construction of the gen-tie line, Applicant shall execute an Affected System Construction and Operation Agreement with the Imperial Irrigation District to mitigate impacts on the safety and reliability of the transmission system owned by the Imperial Irrigation District attributable to the connection of the Applicant's generating facility, via the gen-tie line, to the Arizona Transmission System and report back to the Commission to confirm that the Applicant has executed such Agreement.*

#### **I. DESCRIPTION OF IID AND ITS INTEREST IN THIS PROCEEDING**

IID is an irrigation district organized under the Water Code of the State of California and, as such, is a political subdivision of the State of California. Due to its status as a political subdivision of the State, IID is not a "public utility" regulated by the Federal Energy Regulatory Commission ("FERC"). Instead, IID is governed by a publicly-elected Board of Directors. IID provides both electric and irrigation services to retail customers in Southeastern California, including in Imperial and Riverside Counties. It serves those customers, in part, by the transmission of electric energy generated in Arizona. IID is a co-owner of the Arizona Transmission System ("ATS") in Arizona and IID's transmission system interconnects with the Arizona transmission systems of both Arizona Public Service Company ("APS") and the Western Area Power Administration.

The Applicant is seeking to interconnect a 200 MW photovoltaic solar generating facility, via the proposed gen-tie line, to the Hoo Doo Wash 500 kV Switchyard. That Switchyard is a component of the ATS. IID has a direct and substantial interest in this proceeding because IID is a co-owner of the ATS, including the Switchyard. Specifically, the ownership shares of each ATS co-owner are: (1) IID - 12.78 percent; (2) APS - 11.00 percent; and (3) San Diego Gas & Electric Co. ("SDG&E") - 76.22 percent. In other words, the Applicant is proposing to connect the gen-tie line to a transmission facility co-owned by IID in Arizona.

The ATS and another jointly-owned transmission system, called the California Transmission System, together form what is known as the Southwest Power Link ("SWPL"). SWPL is a major transmission corridor in which power is transmitted in an east-west direction from generators in Arizona, through the IID retail service territory, and then into the San Diego area. When the Applicant's generating facility is placed into operation, power is projected to flow over the gen-

tie through the SWPL and, in certain contingency scenarios, onto IID's individually-owned transmission system.

## **II. IID'S RELIABILITY AND PUBLIC SAFETY CONCERN**

As the Committee may recall, on September 8, 2011, there was a major power outage in the Southwest affecting service to customers in both Arizona and California. A report issued by the staff of the North American Reliability Corporation and FERC on that power outage describes in detail the interconnected nature of the ATS operated by APS and the transmission systems of IID and SDG&E in California.<sup>1</sup> It is IID's goal to prevent a recurrence of an outage affecting service to customers in Arizona and California. To do so, generation project developers, such as the Applicant, need to mitigate impacts attributable to the interconnection of their generating facilities on the safety and reliability of IID's transmission system.

APS is the Operating Agent for the ATS on behalf of the co-owners. Therefore, APS conducted a study to determine the impacts of the proposed interconnection, via the gen-tie line, to the safety and reliability of the jointly-owned ATS and whether any upgrades were necessary to the ATS to mitigate those impacts before the interconnection can be safely and reliably allowed. IID, in turn, conducted a study, known as an Affected System Study, to determine the impacts of the proposed interconnection, via the gen-tie line, to the safety and reliability of IID's individually-owned transmission system and whether any upgrades were necessary to that system to mitigate the impacts before the interconnection can be safely and reliably allowed. Due to power flows over the gen-tie and ultimately onto IID's transmission system, IID concluded that upgrades were necessary to an IID transmission line, known as the "S" Line, before the generating facility can be safely and reliably interconnected, via the gen-tie line, to the ATS.

Recently, APS reported to IID that the Applicant requested a letter from APS, on behalf of the ATS co-owners and the California Independent System Operator ("CAISO"), which would be submitted for hearing record in this proceeding, confirming that studies have been completed and all parties are proceeding amicably and professionally in negotiations of a Large Generator Interconnection Agreement ("LGIA"). IID proposed to include the following status report in the draft letter:

The LGIA requires an Affected System Study to be performed by IID to analyze impacts on its individually-owned system and determine whether IID Network Upgrades are required to accommodate the interconnection of the White Wing Generating Facility. IID reports that it also performed that study and determined that upgrades are necessary to IID's "S" Line to accommodate the interconnection. IID and White Wing are in the process of scheduling a study

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<sup>1</sup> The report is available publicly at <http://elibrary.ferc.gov/idmws/common/opennat.asp?fileID=12973367>.

review meeting, after which IID and White Wing must enter into an Affected System Construction and Operation Agreement.

Yesterday, however, the CAISO refused to approve the draft letter containing this status report by IID and IID understands that APS therefore did not submit the letter for reporting to the Committee. Accordingly, IID is submitting this individual letter.

IID is not a member of the CAISO and IID is concerned, in particular, that the CAISO is allowing generators that sell energy to members of the CAISO to flow energy onto IID's transmission system without IID's authorization and appropriate mitigation of the impacts. Before the Applicant is authorized to construct the gen-tie, IID therefore respectfully submits that the Applicant should be required to negotiate in good faith and execute an Affected System Construction and Operation Agreement with IID for the purpose of mitigating impacts on the safety and reliability of IID's transmission system.

### **III. IID'S PROPOSED CONDITION**

Specifically, to protect the public safety and system reliability, IID proposes that the following condition be adopted by the Committee:

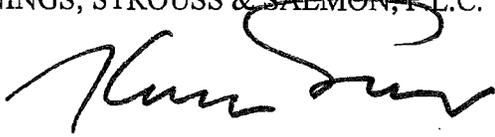
Prior to construction of the gen-tie line, Applicant shall execute an Affected System Construction and Operation Agreement with the Imperial Irrigation District to mitigate impacts on the safety and reliability of the transmission system owned by the Imperial Irrigation District attributable to the connection of the Applicant's generating facility, via the gen-tie line, to the Arizona Transmission System and report back to the Commission to confirm that the Applicant has executed such Agreement.

Thank you and the Committee for considering these comments and the proposed condition.

Very truly yours,

JENNINGS, STROUSS & SALMON, P.L.C.

By

  
Kenneth C. Sundlof, Jr.

APPLICANT'S PROPOSED CONDITION REGARDING IMPERIAL IRRIGATION DISTRICT

(Red-lined language is added by Applicant to IID's condition proposed by letter dated September 9, 2016, from Kenneth Sundlof to Chairman Chenal.)

Prior to construction of the Gen-tie Project, Applicant shall, in compliance with applicable reliability standards and Good Utility Practice, execute an Affected System Construction and Operation Agreement with the Imperial Irrigation District (IID), if necessary to mitigate any adverse impacts on the safety and reliability of the transmission system owned by IID attributable to the connection of Applicant's proposed generating facility to the Arizona Transmission System via the Gen-tie Project; and Applicant shall report to the Arizona Corporation Commission whether a final determination has been made requiring the execution of such Agreement and, if so, confirm that the Applicant has executed such Agreement. Applicant shall provide to IID timely notification and a copy of said report.

Clean Version:

"Prior to construction of the Gen-tie Project, Applicant shall, in compliance with applicable reliability standards and Good Utility Practice, execute an Affected System Construction and Operation Agreement with the Imperial Irrigation District (IID), if necessary to mitigate any adverse impacts on the safety and reliability of the transmission system owned by IID attributable to the connection of Applicant's proposed generating facility to the Arizona Transmission System via the Gen-tie Project; and Applicant shall report to the Arizona Corporation Commission whether a final determination has been made requiring the execution of such Agreement and, if so, confirm that the Applicant has executed such Agreement." Applicant shall provide to IID timely notification and a copy of said report.

