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**PROJECT MEMORANDUM**

**ANTELOPE PARDEE PROJECT, SEGMENTS 1 AND 2**

**To:** John Boccio, Project Manager, CPUC  
Justin Seastrand, Project Manager, ANF  
**From:** Vida Strong, Aspen Project Manager  
**Date:** September 30, 2008  
**Subject:** Weekly Report #36, September 14-20 2008.

The Antelope-Pardee Project, Segment 1, is comprised of three sections:

- Section 1: Pardee Substation to the ANF boundary.
- Section 2: ANF
- Section 3: ANF Boundary to the Antelope Substation

During the subject period, construction activity continued under Notice to Proceed (NTP) #7 for construction of Section 1 and NTPs #2 and #11 for construction of Section 3, including the Antelope Substation. With the exception of 66 kV conductor removal, no work was conducted in Section 2, on the Angeles National Forest, pending the issuance of construction permits. Equipment, materials, and office trailers are being staged in approved construction yards.

**SECTION 1**

**CPUC/Aspen Environmental Monitors (EM):** Jenny Slaughter and Arturo Ruelas.

**Summary of Activity:**

The Shoofly (temporary bypass line) of the Antelope Pardee Transmission Line Project authorized under NTP #5 was energized on May 10<sup>th</sup>. The lattice tower structures originally supporting the line are being replaced to accommodate construction of the new Antelope Pardee 500 kV structures within the Shoofly corridor.

NTP #7 for Section 1 of Segment 1 was issued by the CPUC on May 8<sup>th</sup>. Construction activities approved under NTP #7 in Section 1 include the removal of the Saugus–Del Sur 66 kV line and towers, the construction of the new 500 kV lattice towers, and the removal of the existing 220 kV Santa Clara Vincent line and towers. Construction activities under NTP #7 during the subject week consisted of the following activities.

1. Wire stringing in Section 1 was planned for the week of September 15; however, many of the PAR crews have been called to work in Texas to repair power lines after the recent hurricane. The stringing is on hold until the crews return.
2. One new 500 kV tower location has been inaccessible due to property condemnation proceedings (NC 28). SCE is continuing negotiations with the property owner to proceed with construction on this property. An additional turnaround area has been requested which was not delineated on disturbance maps. A Variance Request for the turnaround was submitted to the CPUC on September 12<sup>th</sup> and was approved on September 16<sup>th</sup>.
3. On September 18<sup>th</sup> a TEWS application was submitted to the CPUC to move equipment from one area to another within the Pumpkin Marshalling Yard. This area was not included in the original yard request (NTP #4). The TEWS was signed by the CPUC EM with all the conditions of NTP #4 still applicable.
4. Along the Saugus–Del Sur 66 kV line, all but two towers have been dismantled and removed in Section 1; these are planned to be removed concurrent with the tower removal in Section 2 later this year.



5. Biological monitoring and associated biological clearance surveys of Section 1 construction areas were conducted by Burns and McDonnell and BRC biologists during the subject week. Paleontological monitors were present to monitor new ground disturbing construction activities.

**Environmental Compliance:**

1. Erosion controls are being installed once construction crews have completed ground-disturbing activities, such as new road construction.

No Non Compliance Reports (NCR) or Project Memoranda were issued during the subject week for Section 1 project activities.

**Agency Representatives:**

None.

**SECTION 2, ANF & ADJACENT YARDS**

**ANF Representative:** George Geer

**CPUC/Aspen Environmental Monitor (EM):** Jenny Slaughter and Art Ruelas.

**Summary of Activity:**

On July 14, 2008, the Forest Service issued a fully executed copy of the Special Use Permit that authorizes SCE to remove the 66-kV conductor, know as the Saugus–Del Sur, from National Forest System lands. The Forest Service also provided written notice that SCE can proceed with the implementation of Phase 1 of the 66-kV conductor removal, from tower 7-3 (near southern Forest boundary) to 16-3 (near Bouquet Reservoir).

A Notice to Proceed (NTP) from the CPUC for the Phase 1 activity was issued on July 18<sup>th</sup>.

Conductor removal activities are taking place on the ANF (Section 2) when the Project Activity Level (PAL) allows. PAR, the SCE construction contractor, is responsible for obtaining the PAL level relating to fire risk for the following day.

1. On August 28<sup>th</sup>, the ANF issued a variance to PAR allowing them a thirty-day window of work in order to remove all the remaining copper conductor still left on the 66kV lattice towers (Phase 1 of Section 2). This is in response to the ongoing illegal cutting and theft of the conductor, and the related danger of fire and impacts to resources from this activity. This variance will allow PAR to work on the Forest six days a week, except on Red Flag Warning days.
2. PAR crews worked during the subject week and completed conductor removal in Phase 1 on September 12<sup>th</sup>.
3. PAR crews worked in Phase 1 of the ANF removing travelers from the 66 kV towers now that the conductor has been removed.
4. SCE submitted plans to remove conductor in Phase 2 of the ANF (from Spunky Canyon Road to the northern ANF boundary. On September 23, the ANF issued Amendment #2 to Special Use Permit allowing the Phase 2 activities. An NTP for the Phase 2 work was issued by CPUC on September 24<sup>th</sup>.

**Environmental Compliance:**

1. Crews utilized the existing disturbed areas of Del Sur Ridge Road for staging of personnel and equipment. All equipment left on the ANF overnight is staged on plastic sheeting to prevent fuel or other liquids from impacting the roads.

2. All construction related equipment and personnel vehicles are being sprayed with water at the Pumpkin Yard to prevent the spread of weeds to areas of the ANF. A copy of the vehicle wash log is kept at the yard.
3. Two water trucks were staged at opposite ends of the work area, to maintain fire protection during construction activities. These two vehicles remained in the area two hours after all the working crews and equipment had left the forest property acting as fire watch.

No CPUC Non-Compliance Reports (NCR) or Project Memoranda (PM) were issued during the subject period for Section 2 construction.

### **SECTION 3, ANTELOPE SUBSTATION, & ADJACENT YARDS**

**CPUC/Aspen Environmental Monitor (EM):** Jenny Slaughter and Arturo Ruelas.

#### **Summary of Activity:**

Section 3 includes the construction of the 500 kV towers, the dismantling of the Saugus–Del Sur 66 kV transmission line, the construction of the 12 kV distribution line, and the Antelope Substation expansion for the Antelope Pardee Project.

NTPs #10 (for the 12 kV component of Section 3 of Segment 1) and #11 (for the 500 kV tower construction and dismantling of the 66 kV transmission line) were issued by the CPUC on June 25<sup>th</sup>. Construction activities approved under NTP #2 continued for the Antelope Substation expansion work. Construction of the 12 kV distribution line as authorized under NTP #10 has been completed, with the exception of an underground component, and the line was energized on September 2<sup>nd</sup>.

Construction activities under NTPs #2 and #11 during the subject week consisted of the activities noted below. United Construction is the subcontractor to PAR responsible for the wreck-out of the 66 kV lattice towers. United crews are working six days a week. PAR Construction is responsible for constructing the 500 kV structures.

1. Construction activities covered under NTP #10 for the Hughes Lake 12 kV distribution line began on July 12<sup>th</sup>. Construction crews worked from the Antelope Substation west toward Elizabeth Lake Road. All new 12 kV poles have been set and the conductor is in place. The line was energized on Tuesday, September 2<sup>nd</sup>. All the original 12 kV poles have been removed. Other work associated with the 12 kV Hughes Lake portion of Section 3 include an underground component on private property. This work is on hold until the cultural resource testing takes place.
2. Wreck-out of the 66 kV conductors and towers began on September 3. United Construction crews are working from the Antelope Substation south. All the towers between Avenue J and the California Aqueduct have been removed, except for one remaining inside a cultural site and waiting for SHPO's approval.
3. Grading, foundation drilling, and setup of the 500kV towers started on August 20<sup>th</sup>. Road and pad grading crews started working from Elizabeth Lake Road north and also from the Antelope Substation south.
4. On September 16<sup>th</sup>, Variance #11 was approved by the CPUC allowing PAR to construct a temporary road to access tower NC 97 in Section 3 (see Figure 1). A Variance was required because the original access method of overland travel was not feasible.
5. On September 10<sup>th</sup>, during foundation construction, a cement truck overturned north of Elizabeth Lake Road while negotiating a turn on private property blocking the access road. Because other cement trucks were on the way up to the tower foundations to deliver cement, PAR had to cut a bypass road around where the truck was on its side. Biologists and Environmental Inspectors surveyed the area before the bypass road was cut and identified more than 200 Pierson's Morning glory plants in the area. The cement truck was eventually righted with the help of a wrecker and bulldozer, and several gallons of

fuel and other fluids had spilled from the truck. An incident report is expected from SCE documenting the fuel spillage and number of plants impacted from this accident.

6. Near the Antelope Substation, several tubular steel poles (TSPs) were erected (see Figure 2). In Section 3, a combination of TSPs and lattice steel towers will be used to support the new 500 kV lines.
7. On September 18<sup>th</sup> the CPUC EM conducted a field tour in the Reitano Ranch portion of Section 3 in order to verify the flagging of resources.
8. Grading, grounding, and fencing of the Antelope Substation expansion area has been completed. An earthen berm was constructed surrounding the expansion area to assist in drainage. Crews continue the construction of the new substation components within the expansion area

### **Environmental Compliance:**

1. On August 26<sup>th</sup>, the CPUC EM noticed that a section of old 12 kV poles had been removed along 110<sup>th</sup> Street. These poles (approximately 21 poles) had no access roads identified or approved, and SCE was preparing a Variance request to complete this work. The CPUC EM issued a Project Memorandum for this work being conducted without a Variance Request approval from the CPUC. As a condition of the PM, SCE must submit the Variance Request documentation, specifically the resource survey information to the CPUC and CDFG for review. On September 17<sup>th</sup>, a response to the CPUC PM was submitted to the CPUC documenting the pre-construction survey results. The pre-construction biology report indicates that two populations of Pierson's morning glory was detected and would be avoided to the extent feasible. The CPUC EM has asked SCE to clarify how many plants were affected during this work.
2. Because the original biological pre-construction surveys were incomplete, SCE is required to conduct further pre-construction clearance surveys to identify resources in Section 3. These survey results were submitted to the CPUC on July 7<sup>th</sup> (with the exception of one property still in condemnation proceedings with SCE). The CPUC EMs conducted a field tour of Section 3 to verify that biological resources discovered during the clearance surveys were marked for avoidance and mapped on project resource maps. The CPUC EM completed the biological survey review and approval was given to SCE on July 8<sup>th</sup>. Clearance of the subject condemnation property will be conducted by the CPUC EMs in a similar fashion, prior to construction.
3. On September 18<sup>th</sup>, the CPUC EM conducted a field tour of the above mentioned property in order to field check biological resources. Two resources had been previously identified: 1) one woodrat midden and; 2) a patch of Pierson's morning glory. These two resources were well flagged making possible for construction activities to begin as soon as the NTP #13 is received.
4. Archaeological and Native American Monitors were present during 66kV wreck-out and 500kV construction when required.

No CPUC Non-Compliance Reports (NCR) or Project Memoranda (PM) were issued during the subject week for Section 3 construction.

### **SEGMENT 2**

#### **Summary of Activity:**

On September 19<sup>th</sup> CPUC EM and Burns & McDonnell biologists conducted a field tour from NC 45 to NC 20 in order to field check that all resources have been flagged ahead of construction activities. Testing of archaeological site P-19-003736 began on September 18<sup>th</sup> (see Figure 3).

#### **CPUC NOTICES TO PROCEED (NTPs) & ANF PERMITTING**

Table 1 summarizes the CPUC Notice to Proceed and ANF permitting activity for the Antelope-Pardee Project, Segment 1, to date.

**TABLE 1**  
**CPUC NTPs & ANF PERMITTING**  
(Updated 09-30-08)

NTP #/ Permit	Date Requested	Date Issued	Segment #	Description
<b>CPUC NTPs</b>				
#1	10/10/07	10/16/07	1 & 3	Mojave Marshalling Yard. Per the request, the yard will primarily be used to store construction equipment and materials for the project.
#2	11/16/07	12/10/07	1	Antelope Substation construction and expansion, as well as the use of two adjacent contractor laydown yards.
#2 Mod	12/21/07	01/02/08	1	Allow grading activity at the Antelope site/yards and replacement of an existing 80-foot microwave tower with a new 120-foot tower immediately outside of the communications room within the fenced area of the Antelope Substation.
#3	01/10/08	01/16/08	1	Use of five contractor laydown yards as named Pumpkin Yard, Pottery Yard, Pardee Substation Yard, Mechanics Yard and Avenue I Yard.
#4	01/29/08	02/04/08	1 & 3	Use of the Racetrack Marshalling Yard.
#5	02/19/08	02/28/08	1	Shoofly Construction, Section 1.
#5 Mod #1	03/11/08	03/19/08	1	Use of a new soil disposal site for the Shoofly construction, Section 1.
#5 Mod #2	03/24/08	03/26/08	1	Removal of the 66 kV conductor on the Saugus–Del Sur line during the outage scheduled for March 27, 2008.
#6	03/19/08	03/29/08	1	Use of three additional construction yards, Rodeo, Blue Cloud, and Pumpkin expansion. Rodeo yard approved under NTP #9.
#7	04/03/08	05/08/08	1	Section 1 Construction.
#8	05/01/08	05/09/08	1	10-acre marshalling yard near Antelope Substation.
#9	03/18/08	06/18/08	1, 2, 3	Rodeo Yard
#10	06/02/08	06/25/08	1	12 kV line (Hughes Lake Distribution Line).
#11	06/03/08	06/25/08	1	Section 3 construction.
#12	06/27/08	07/08/08	1	Hydrant Yard
#13	07/17/08	07/18/08	1	Removal of the 66 kV conductor within the ANF, Phase 1, from tower 7-3 (near southern Forest boundary) to 16-3 (near Bouquet Reservoir).
#14	Initial submittal 07/11/08	09/29/08	2	Segment 2 construction.
#15	09-24-08	09/24/08	1	Removal of the 66 kV conductor within the ANF, Phase 2.
#16	Initial submittal 09/12/08		3	Segment 3A construction
<b>ANF PERMITTING</b>				
	11/29/07	12/14/07	1	Radio Repeater – installation of a temporary radio repeater site on Sierra Pelona Ridge to provide communication during construction activities tied to the project. Improvement installation began Jan. 11
	09/27/07	12/14/07	1	Geotechnical testing – 23 geotechnical borings are authorized on National Forest lands to provide additional information that will be used in the design of the transmission towers. Notice to proceed was signed Jan 31 to begin work the week of Feb. 3

NTP #/ Permit	Date Requested	Date Issued	Segment #	Description
		07/14/08	1	Removal of the 66 kV conductor within the ANF, from tower 7-3 (near southern Forest boundary) to 16-3 (near Bouquet Reservoir) Phase I.
		09/23/08	1	Removal of the 66 kV conductor within the ANF, Phase II

## VARIANCE REQUESTS

Variance Requests and Temporary Extra Workspace (TEWS) Requests submitted to date are summarized in Tables 2 and 3, respectively.

**TABLE 2**  
**VARIANCE REQUESTS**  
(Updated 09-30-08)

Variance Request	Date Requested	Date Issued	Segment #	Description
VR #1	04/01/08	04/03/08	1	Change in construction of a overland travel road to Shoofly pole 18, to a temporary road construction method.
VR #2	04/18/08	04/19/08	1	Several expanded stringing sites, new staging areas, and guard pole installation sites for the removal of the 220 kV line.
VR #3	04/24/08	05/25/08	1	Weekend work along the Shoofly portion of Section 1, within the City of Santa Clarita and Los Angeles County, and at the Antelope Substation, Avenue J, in the City of Lancaster.
VR #4	05/08/08	05/09/08	1	Weekend work along the 66 kV line in Section 1
VR #5	07/15/08	VR will be submitted as separate requests		Expansion of guard pole structure areas in Haskell Canyon, New wire stringing site between NC 11 and 12, and crane pad near NC 20.
VR #6	07/30/08	07/30/08	1	Modification to the notice and review requirements under Mitigation Measures L-5 and L-6.
VR #7	08/12/08	08/16/08	1	Wire Stringing site in Section 1 between NC 11 and 12.
VR #8	08/20/08	08/27/08	1	Guard poles at Haskell Canyon outside of approved disturbance areas.
VR #9	08/19/08	09/09/08	1	Valuzet Movie Ranch Helicopter Landing Zone, Section 1.
VR #10	08/21/08	08/27/08	1	Permission to leave one tower foundation in place at wreck out tower 24/2 in Section 1, due to likelihood of slope failure.
VR #11	09/12/08	09/16/08	1	New temporary road construction to NC 97 in Section 3.
VR #12 (revised)	09/17/08	Under CPUC review	2	Permanent access roads for Segment 2 (see NTP #14).
VR #13	09/16/08	09/17/08	1	Turn around for equipment at NC 28 in Section 1.
VR #14	09/18/08	Denied 09/25/08	2	Permanent and temporary access roads in excess of 10% gradient on Segment 2 (see NTP #14).
VR #15	09/23/08		3	Permanent access roads for Segment 3A.
VR #16	9/20/08	Under CPUC review	1	Access road changes and construction yard, Section 3.

**TABLE 3**  
**TEMPORARY EXTRA WORKSPACE (TEWS) REQUESTS FOR SEGMENT 1**  
 (Updated 09-30-08)

TEWS Request	Date Requested	Date Approved	Description
TEWS 1	May 15, 2008	May 16, 2008	Extra Workspace for steel placement outside of disturbance limits adjacent to New Construct tower (NC 3) in Section 1.
TEWS 2	May 19, 2008	May 21, 2008	Extra Workspace for steel placement adjacent outside of disturbance limits to New Construct tower (NC 12) in Section 1.
TEWS 3	May 20, 2008	May 20, 2008	Extra Workspace for equipment parking outside of disturbance limits along shoulder of private road adjacent to New Construct tower (NC 2) in Section 1.
TEWS 4	May 27, 2008	May 27, 2008	Access for crew trucks to 66 kV wreck out tower 6-1.
TEWS 5	July 3, 2008	July 16, 2008	Extra Workspace for steel placement and tower assembly near NC 12.
TEWS 6	September 4, 2008	September 4, 2008	Use of Staging area adjacent to NC 2 in Section 1.
TEWS 7	September 4, 2008	September 4, 2008	Use of dirt road adjacent to ten acre yard, Section 3.
TEWS 8	September 11, 2008	September 11, 2008	Helicopter landing site, Section 3.
TEWS 9	September 18, 2008	September 18, 2008	Use of 3 acres of disturbed land adjacent to the Lower Pumpkin Yard.

## PROJECT PHOTOGRAPHS - SEGMENTS 1 AND 2



**Figure 1:** New temporary road construction to NC 97 in Section 3, completed after Variance was approved by the CPUC for change in access method.



**Figure 2:** A combination of lattice towers and TSPs are being constructed to support the new 500 kV lines near the Antelope Substation.





**Figure 3:** Archaeological testing crews at site P-19-003736 located in Segment 2.