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## PROJECT MEMORANDUM

### ANTELOPE-PARDEE PROJECT, SEGMENTS 1, 2 AND 3A

**To:** John Boccio, Project Manager, CPUC  
Justin Seastrand, Project Manager, ANF  
**From:** Vida Strong, Aspen Project Manager  
**Date:** December 3, 2008  
**Subject:** Weekly Reports 45 and 46, November 16 to November 29, 2008

## INTRODUCTION

This report provides a summary of the construction and compliance activities associated with the SCE Antelope-Pardee 500 kV Transmission Project, Segment 1, and SCE Antelope Transmission Project, Segments 2 and 3A. A summary of the Notices to Proceed with construction and Variance Request activity are also provided (see Tables 1 and 2, respectively, near the end of this report). Finally, a summary of Temporary Extra Workspace and non-compliance activity are provided in Tables 3 and 4, respectively.

## SEGMENT 1

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. On October 23<sup>rd</sup>, the Special Use Permit (SUP) for construction of Section 2, Angeles National Forest, was issued and work began on November 12. Equipment, materials, and office trailers are being staged in approved construction yards.

## SECTION 1

**CPUC/Aspen Environmental Monitors (EMs):** 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 has been completed between towers NC 2 and NC 11. Work began on wire installation between towers 12 and 16 during the subject week. Sockline was installed and conductor pulling will take place during an adjacent SCE line outage in early December.
2. 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 in 2009.



3. Biological monitoring and associated biological clearance surveys of Section 1 construction areas are being conducted by Burns & McDonnell and BRC biologists. Paleontological monitors were present to monitor new ground disturbing construction activities.

### **Environmental Compliance:**

1. PAR crews continue to use the Lower Pumpkin Yard along Bouquet Canyon Road accessed across a dry crossing of Bouquet Creek. Permission to access this yard is conditioned by the CDFG and the CPUC only when stream flows were not present in Bouquet Creek, which is potential habitat for an endangered fish species. If water is present, crews are not permitted to cross the drainage and are required to notify CDFG and the CPUC. On Wednesday, November 26, creek flow was evident over the access crossing to the construction yard. Crew members were instructed not to cross the creek and to meet in the adjacent Pottery Yard (see Figure 1).
2. The CPUC EM inspected several construction areas after the rain event on November 25. Loose soils were observed running off a new access road into a dry drainage along Blue Cloud Road (see Figure 2). Burns & McDonnell Environmental Inspector Kimberly Toal was notified of the problem.

No Non Compliance Reports (NCR) or Project Memoranda were issued during the subject period for Section 1 project activities. Non-Compliance activities for the project to date are summarized in Table 4 near the end of this report.

### **Agency Representatives:**

None.

### **SECTION 2, ANF & ADJACENT YARDS**

**ANF Representatives:** George Geer, Mike Roberts, Janet Nickerman, Katie VinZant  
**CPUC/Aspen Environmental Monitor (EM):** Jenny Slaughter

### **Summary of Activity:**

On October 23, 2008, the Angeles National Forest issued a Special Use Permit for construction of the new 500 kV towers and the removal of the existing 66 kV towers on National Forest System lands. The 66 kV conductor removal has been completed and was permitted by a separate SUP issued by the ANF. A Notice to Proceed (NTP) from the CPUC for the construction of the 500 kV transmission line was issued on October 27<sup>th</sup>.

Construction of Section 2 on the ANF began on November 12<sup>th</sup>. Crews assemble each morning at the Lower Pumpkin Yard on Bouquet Canyon Road at 7am. Crews plan to work 6 days a week if Project Activity Levels (PAL) allow. PAL levels for the week are summarized below:

Monday November 17: PAL Level E with a Red Flag Warning-no work  
Tuesday November 18: PAL Level EV-work with restrictions  
Wednesday November 19: PAL Level EV-work with restrictions  
Thursday November 20: PAL Level EV-work with restrictions  
Friday November 21: PAL Level E-no work  
Saturday November 22: PAL Level D-work yes  
Monday November 24: PAL Level D-work yes  
Tuesday November 25: PAL Level A-work yes  
Wednesday November 26: PAL Level A-no work due to rain

1. Construction began on the ANF on Wednesday, November 12<sup>th</sup>. Vehicles and construction equipment were washed at the Pumpkin Yard prior to entering the Forest lands.
2. Grading of a wire stringing site near Tower 33 took place without any topsoil segregation occurring (see Figure 3). This area is an area with a slope of less than 40%. Per the ANF Construction Plan, soil segregation is required in all ground disturbance areas with slope less than 40% to aid in restoration activities. This has been documented as an Incident in Table 4, Non-Compliances, Project Memoranda, and Other Incidents, of this report.
3. Road construction and improvement took place to access the lower tower leg at Tower 33. Originally, a temporary road was planned to be constructed to this tower leg which was located within the tower disturbance area. Upon further investigation, PAR decided that this was not feasible and requested additional area to construct the road. This was documented by the ANF as a Level 1 change and was approved by the ANF Permit Administrator.
4. A new temporary access road to Tower 41 was started using an excavator (see Figure 4). Crews were reminded that road pioneering is prohibited after 1pm on EV days. The first portion of the road construction was within the burn area with slopes of over 40%. ANF representatives Mike Roberts and Janet Nickerman were onsite to monitor this work. Topsoil salvage took place on a ridge top portion of the new road. When the road crews approached an RCA (Riparian Conservation Area), work was halted because PAR did not have the appropriate construction materials (rock is required for the RCA crossing) or sufficient erosion control materials on hand.
5. Brush clearing crews cleared disturbance areas at several tower sites including Tower 34, 35, and 36, many of these are only accessible by helicopter.
6. Footing preparation crews hand dug footing bases at tower locations 34, 35, and 36. The hand excavations are taking place prior to the mobilization of the micropiling crews. As directed by the ANF Permit Administrator, the holes were fenced and covered at the end of each day to prevent wildlife from becoming trapped in the holes.
7. Micropile verification tests are taking place at four locations along the ANF corridor. The tests at Towers 33 and 56 were completed during the subject period (see Figure 5).
8. At the access to Tower 88, road improvement to an existing Forest Service road will be required. PAR Construction has determined that a tower leg is situated in the road, and that the road will have to be widened. This change is documented as a Level 1 change and was approved by the ANF Permit Administrator provided that biological clearance surveys are conducted, vegetation is cleared prior to road construction, and that PAL level requirements for road pioneering are followed.

### **Environmental Compliance:**

1. A hydraulic spill was reported near Tower 56 from micropile drilling equipment. The spill was cleaned up and removed by PAR construction.
2. ANF Representative George Geer conducted verification of the Fire Plan required equipment on project vehicles and equipment.
3. It was noted that several populations of Mariposa Lilies were not shown on project resource maps. Burns & McDonnell will provide updated maps showing these locations.

No CPUC Non-Compliance Reports (NCR) or Project Memoranda (PM) were issued during the subject period for Section 2 construction. Non-Compliance activities for the project to date are summarized in Table 4.

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

**CPUC/Aspen Environmental Monitors (EMs):** 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, #10, and #11 during the subject period consisted of the activities noted below. PAR Construction is responsible for constructing the 500 kV structures.

1. The underground component of the 12 kV construction continued. SCE inspectors have identified a problem with the underground transformers. PAR has backfilled the area and are working to resolve the problem. At least two wood poles will require removal as part of the transition to underground service on the property. Access to these poles have not been identified and will require additional surveys for resource protection. The CPUC EM has reminded the Burns & McDonnell Inspectors that at TEWS will be required for the access routes.
2. Grading, foundation drilling, and setup of the 500kV towers started on August 20<sup>th</sup>. Tower assembly took place on several lattice towers near the Antelope Substation. On Section 3, a combination of single circuit lattice towers and tubular steel poles are used to support the new 500 kV line.
3. 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. A spill resulting from a broken hydraulic hose was reported on Section 3 on October 14<sup>th</sup>. No spill incident report has been submitted to date.
2. Archaeological and Native American Monitors were present during 12 kV underground and 500kV construction when required.

No CPUC Non-Compliance Reports (NCR) or Project Memoranda (PM) were issued during the subject period for Section 3 construction. Non-Compliance activities for the project to date are summarized in Table 4.

## **SEGMENT 2**

### **Summary of Activity:**

The Notice to Proceed for Segment 2 construction (NTP #14) was issued by the CPUC on September 30<sup>th</sup>. No construction has occurred on the 500 kV portion of Segment 2 to date. SCE crews have begun the relocation of a 66 kV line on wood poles to accommodate the new 500 kV structures.

1. As conditioned in the NTP, all sensitive resources will be flagged for avoidance and verified by the CPUC EM. Flagging of biological resources, disturbance areas, and access roads was completed between the Antelope Substation and 90<sup>th</sup> Avenue.
2. SCE crews completed wire stringing work on the section of 66 kV wood poles between the Antelope Substation and 90<sup>th</sup> Avenue. Other portions of the 66 kV line relocation are on hold until SCE gains the right to construct on the properties.
3. The existing 66 kV wood poles currently supporting the line will be removed during an outage in December.

**Environmental Compliance:**

1. A biological clearance survey report for other portions of Segment 2 is still outstanding from SCE.
2. Protocol level surveys for Western Burrowing Owls in portions of Segment 2 identified in the LSA Burrowing Owl Survey Report are expected to be conducted within 30 days of the initiation of construction.
3. Maps showing final road design and disturbance areas have been submitted and are currently under review by the CPUC.

**SEGMENT 3A**

The NTP for Segment 3A (NTP #17) was issued by the CPUC on October 22, 2008. Several properties in Segment 3 are in the condemnation process. No construction activities have taken place to date.

**Summary of Activity:**

1. Archaeological testing of CA-KER-2821/H has been completed. A second site (PL-SCE-Techachapi-38) was tested on October 31<sup>st</sup>. A plan documenting the results of the testing is required to be submitted to the CPUC prior to work in these areas.
2. Protocol level surveys for Western Burrowing Owls have begun in Segment 3. The surveys are required within 30 days of construction.

**CPUC NOTICES TO PROCEED (NTPS) & ANF PERMITTING**

Table 1 summarizes the CPUC Notice to Proceed and ANF permitting activity for the Antelope-Pardee Project, Segments 1, 2, and 3, to date.

**TABLE 1**  
**CPUC NTPS & ANF PERMITTING**  
 (Updated 12-03-08)

NTP #/ Permit	Date Requested	Date Issued	Segment #	Description
CPUC NTPs				
#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.

NTP #/ Permit	Date Requested	Date Issued	Segment #	Description
#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	10/01/08	10/09/08	1	Section 3, Reitano Marshalling yard.
#17	Initial submittal 09/12/08	10/22/08	3	Segment 3A construction
#18	10/24/08	10/27/08	1	Section 2 construction (Angeles National Forest)
#19	10/31/08	12/01/08	3	Windhub substation construction.
ANF PERMITTING				
	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
		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
		10/23/08	1	Construction of the 500 kV transmission line and wreck-out of the 66 kV towers in the ANF, Section 2.



## VARIANCE & TEMPORARY EXTRA WORKSPACE 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 12-03-08)

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.



Variance Request	Date Requested	Date Issued	Segment #	Description
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	Withdrawn	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 #14 (revised)	10/03/08	Withdrawn	2	Temporary access roads in excess of 10% gradient on Segment 2.
VR #15	9/20/08	9/26/08	1	Access road changes, Section 3.
VR #16	09/26/08	Withdrawn	3	Permanent access roads for Segment 3A.
VR#17	10/14/08	10/15/08	1	Extended weekend work hours between NC 22 & 23 Haskell Canyon utility crossing.
VR#18	10/15/08	10/16/08	1	Wreck-out Tower 25/5 disturbance area and access road and footing removal. Segment 1 Section 3.
VR #19	11/05/08	11/14/08	1	Use of existing disturbance areas as helicopter landing zones, Section 1.
VR #20	11/05/08	11/20/08	1	Use of existing disturbance areas as helicopter landing zones, Section 3.

**TABLE 3**  
**TEMPORARY EXTRA WORKSPACE (TEWS) REQUESTS**  
(Updated 12-03-08)

TEWS Request	Date Requested	Date Approved	Segment #	Description
TEWS 1	05/15/08	05/16/08	1	Extra Workspace for steel placement outside of disturbance limits adjacent to New Construct tower (NC 3) in Section 1.
TEWS 2	05/19/08	05/21/08	1	Extra Workspace for steel placement adjacent outside of disturbance limits to New Construct tower (NC 12) in Section 1.
TEWS 3	05/20/08	05/20/08	1	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	05/27/08	05/27/08	1	Access for crew trucks to 66 kV wreck-out tower 6-1.
TEWS 5	07/03/08	07/16/08	1	Extra Workspace for steel placement and tower assembly near NC 12.
TEWS 6	09/04/08	09/04/08	1	Use of Staging area adjacent to NC 2 in Section 1.
TEWS 7	09/04/08	09/04/08	1	Use of dirt road adjacent to ten acre yard, Section 3.
TEWS 8	09/11/08	09/11/08	1	Helicopter landing site, Section 3.
TEWS 9	09/18/08	09/18/08	1	Use of 3 acres of disturbed land adjacent to the Lower Pumpkin Yard.
TEWS 10	10/03/08	10/03/08	1	Use of 2 acres of disturbed land in the Lane Ranch for parking equipment, Segment 2.

**NON-COMPLIANCES & INCIDENTS**

A summary of Project Memorandum, Non-Compliance Reports, and other incidents to date are provided in Table 4.

**TABLE 4**  
**NON-COMPLIANCES, PROJECT MEMORANDA, AND OTHER INCIDENTS**  
(Updated 12-03-08)

Type	Date	Location	Description
Project Memorandum	March 25, 2008	Segment 1, Section 1	Deposition of soil into drainage at Soil Disposal site.
Project Memorandum	April 18, 2008	Segment 1, Section 1	Encroachment into Environmentally sensitive area during stringing operations.
Project Memorandum	April 30, 2008	Segment 1, yards	No clearance surveys of construction yards being conducted during bird nesting season.
Project Memorandum	May 21, 2008	Segment 1, Section 1	Inaccurate and incomplete resource maps.
Project Memorandum	August 26, 2008	Segment 1, Section 3	Completion of 12 kV wreck-out of 21 poles outside of disturbance area prior to Variance approval.
Incident	Sept.10, 2008	Segment 1, Section 3	Spill resulting from overturned cement truck. Incident report documenting spill amounts submitted on October 15.
Incident	October 13, 2008	Segment 1, Section 1	Spill resulting from overturned portable toilets at the Pottery Yard during high winds. The CPUC EM was not notified until a spill report was submitted on October 30. Spill was not cleaned up until the next day.
Incident	October 15, 2008	Segment 2, 66 kV	66 kV crews delivered materials to the right-of-way before disturbance areas had been flagged and biologically surveyed.
Incident	October 16, 2008	Segment 1, Section 3	Spill resulting from a broken hydraulic hose. Incident report pending.
Incident	Nov. 6, 2008	Segment 1, Section 3	12 kV underground crews began work before disturbance areas had been flagged and biologically surveyed.
Incident	Nov. 18, 2008	Segment 1, Section 2	No topsoil was separated prior to grading near NC 33.

## PROJECT PHOTOGRAPHS



**Figure 1:** Recent ground disturbing activities near NC 28 on Section 1 have not been fortified with BMPs to prevent loose soils from eroding outside of the project area. The CPUC EM has reminded Burns & McDonnell Environmental staff that BMP installation is required in areas of ground disturbance.



**Figure 2:** On Wednesday, November 26, water flowed across the entrance to the Pumpkin Yard. Due to the presence of the three spined stickleback in Bouquet Creek, equipment and vehicle crossing during water flows is not permitted.



**Figure 3:** Grading of a wire stringing site near Tower 33 in the ANF took place without topsoil segregation. The ANF Construction Plan required soil segregation in areas of less than 40% slope for restoration purposes.



**Figure 4:** Temporary road construction to access Tower 41. An excavator was used to cut the new road. Topsoil was separated in areas of less than 40% slope.



**Figure 5:** Micropile verification testing took place at the Tower 56 location.