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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: November 7, 2008
Subject: Weekly Reports #41 and #42, October 19 to November 1, 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 23rd, the Special Use Permit (SUP) for construction of Section 2, on the Angeles National Forest, was issued and work is scheduled to begin the week of November 10. 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 10th. 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 8th. 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 continued between towers NC 2 and NC 11. Three phases of conductor on one circuit have been pulled in and are currently being clipped in and sagged (see Figure 1). Installation of the second circuit began with the placement of sock line installation using a helicopter. Once both circuits have been installed, PAR plans to continue wire installation between structures 12 and 16.



2. Wire removal over the LADWP utility corridor began on October 19th during a maintenance outage of the LADWP lines. Four cranes and two guard pole structures were in place during the wire removal to protect the LADWP corridor (see Figure 2). A Variance for work on Sundays during the outage was approved by the County of Los Angeles and the CPUC to safely complete this work.
3. Once the conductor was removed over the LADWP corridor in Haskell Canyon, work proceeded on the wreck out of the existing 220 kV Santa Clara Vincent towers in order to construct NC 22 and 23.
4. Foundation pouring took place at NC 22 and 23 once the old towers were removed. While removing the existing tower at the NC 22 location, it was determined that the complete removal of two tower foundations would have a negative impact on the new tower foundations and adjacent slope stability. The CPUC EM was notified and recommended that SCE request a Variance in order to leave the foundations in place (see Figure 3).
5. 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, once construction begins in Section 2.
6. Biological monitoring and associated biological clearance surveys of Section 1 construction areas are being conducted by Burns and McDonnell and BRC biologists. Paleontological monitors were present to monitor new ground disturbing construction activities.

Environmental Compliance:

1. A portable toilet was knocked over during high winds at the Pottery Yard on October 13th, and was cleaned up the following day. Although the Burns and McDonnell Environmental staff was notified, the spill was not reported to the CPUC EM. A spill report was submitted on October 30th.
2. 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.
3. 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 period for Section 1 project activities. Non-Compliance reports issued to the project to date are summarized in Table 4 near the end of this report.

Agency Representatives:

None.

SECTION 2, ANF & ADJACENT YARDS

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 27th.

Construction on the ANF is scheduled to begin the week of November 10th.

1. No construction activity took place in Section 2 during the subject period.
2. SCE's Environmental contractors have been in Section 2 updating and completing construction flagging including disturbance areas and sensitive resources.

Environmental Compliance:

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

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 25th. 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 2nd.

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. 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 12th. 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 2nd. 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 results of the resource testing have been submitted.
2. Grading, foundation drilling, and setup of the 500 kV towers started on August 20th. Tower assembly took place at several lattice tower locations near the Antelope Substation (see Figure 4). In Section 3, a combination of single circuit lattice towers and tubular steel poles are used to support the new 500 kV line. Foundation work for the 500 kV towers has not begun on the Reitano Ranch within Section 3, and is pending the approval of the requirements of Mitigation Measure L-6 by the CPUC.
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. 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. Clearance survey results for the Reitano property were submitted September 23rd, and field verified by the CPUC EM. The CPUC EM completed the biological survey review and approval was given to SCE on September 25th.
2. A spill resulting from a broken hydraulic hose on Section 3 was reported on October 14th. No spill incident report has been submitted to date.

3. Archaeological and Native American Monitors were present during 66 kV wreck-out and 500 kV 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 reports issued to 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 30th. With the exception of 66 kV pole relocations, no construction has occurred on Segment 2 to date.

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 Towers 18 and 28, and was verified by the CPUC EM. No work has started on this area of Segment 2.
2. The relocation of the 66 kV poles between the Antelope Substation and 90th Avenue in Lancaster began on October 21st. Construction of the 66 kV relocation is being conducted by SCE crews and overseen by Burns and McDonnell environmental staff. The CPUC EMs toured the area of the 66 kV relocation and verified flagging between the substation and 90th Avenue, prior to the commencement of work.

Wood poles previously delivered to the project area the prior week were fitted with the necessary hardware in preparation for setting (see Figure 5). Holes were dug for the wood poles using a truck mounted auger. Each of the holes dug were covered with plywood at the end of each day to lessen the chance of animal entrapment. Once the new poles were installed, wire was strung using truck booms to reach the arms. Further work on the 66 kV line is on hold until the outage in December, or when new properties are obtained by SCE. In addition, the existing wood poles currently supporting the line will be removed during the December outage.

Environmental Compliance:

1. Holes were dug for the wood poles using a truck mounted auger. Each of the holes dug were covered with plywood at the end of each day to lessen the chance of animal entrapment.
2. A biological clearance survey report for Segment 2 is still outstanding from SCE.
3. 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.

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 began on October 28th and is expected to take three weeks to complete. A second site (PL-SCE-Techachapi-38) was tested on October 31st. A plan documenting the results of the testing is expected to be submitted to the CPUC prior to work in these areas.
2. Protocol level surveys for Western Burrowing Owls are scheduled to begin the week of November 3rd.

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 11-07-08)

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.
#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	Under Review	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

NTP #/ Permit	Date Requested	Date Issued	Segment #	Description
	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 11-07-08)

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	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).

Variance Request	Date Requested	Date Issued	Segment #	Description
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	Under review	1	Use of existing disturbance areas as helicopter landing zones, Section 1.
VR #20	11/05/08	Under review	1	Use of existing disturbance areas as helicopter landing zones, Section 3.

TABLE 3
TEMPORARY EXTRA WORKSPACE (TEWS) REQUESTS FOR SEGMENT 1
(Updated 11-07-08)

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.
TEWS 10	October 3, 2008	October 3, 2008	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 11-07-08)

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 16, 2008	Segment 1, Section 3	Spill resulting from a broken hydraulic hose. Incident report pending.

PROJECT PHOTOGRAPHS



Figure 1: Wire stringing equipment in place between NC 11 and 12 on Section 1, Segment 1.



Figure 2: Cranes and steel guard structures were used to protect the LADWP corridor during wire removal over Haskell Canyon.



Figure 3: Foundation from the wreck out tower is proposed to be left as is, in stead of being dug down to two feet below grade. SCE was informed to submit a Variance for leaving the two foundations in place.



Figure 4: On Section 3, crews continue to construct the new single circuit towers near the Antelope Substation.



Figure 5: On Segment 2, SCE crews began setting wood poles for the relocation of the 66 kV line near the Antelope Substation. The existing 66 kV poles will need to be removed in order to construct the 500 kV structures, later this year.