



30423 Canwood Street, Suite 215, Agoura Hills, CA 91301-4316
Tel. 818-597-3407, Fax 818-597-8001, www.aspeneg.com

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 12, 2008
Subject: Weekly Report 47, November 30 to December 6, 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, 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 (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 has been completed between towers NC 2 and NC 11. Wire installation between towers 12 and 16 will take place during an adjacent SCE line outage in December or January.
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.



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 Monday, December 1, approximately 15 construction vehicles (including PAR construction and Burns and McDonnell Environmental staff) crossed through flowing waters of the creek to enter the yard. The CPUC EM was not notified of this activity. A Non-Compliance Report was issued to SCE for this activity. As stipulated in the NCR, SCE must prepare a plan for continued use of the Pumpkin Yard explaining measures proposed to avoid flowing waters during the rainy season. The plan must be submitted to the CDFG and USFWS within one week for approval. A draft plan was submitted on December 9 and a revised plan was submitted to CDFG and USFWS on December 11.
2. On December 4, Dan Blankenship inspected a replaced culvert along Blue Cloud Road. Per his recommendations, rock protection should be installed to prevent down-cutting of flows through the culvert.

One Non Compliance Report (NCR) was 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:

Dan Blankenship of CDFG was on site at the Pumpkin yard to inspect the crossing of Bouquet Creek and the replaced culvert at Blue Cloud Road.

SECTION 2, ANF & ADJACENT YARDS

ANF Representatives: Justin Seastrand, George Geer, Mike Roberts, Janet Nickerman, Katie VinZant
CPUC/Aspen Environmental Monitors (EM): Jenny Slaughter and Art Ruelas

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 of Section 2 on the ANF began on November 12th. Crews assemble each morning at the Lower Pumpkin Yard or the Pottery 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 December 1: PAL Level EV-work with restrictions
Tuesday December 2: PAL Level EV-work with restrictions
Wednesday December 3: PAL Level EV-work with restrictions
Thursday December 4: PAL Level EV-work with restrictions
Friday December 5: PAL Level D-no work due to high winds
Saturday December 6: PAL Level D- no work due to high winds

1. Construction began on the ANF on Wednesday, November 12th. Vehicles and construction equipment are washed at the Pumpkin Yard prior to entering the Forest lands.
2. Construction of the new temporary access road to Tower 41 continued using an excavator and a dozer. 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 were

onsite to monitor this work. Topsoil salvage took place along portions of the new road. Additional erosion control measures were installed in areas of the new road construction, especially where the access crosses Riparian Conservation Areas.

3. Brush clearing crews cleared disturbance areas at several tower sites including Tower 34, 35, and 36, many of these are only accessible by helicopter.
4. 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.
5. Micropile verification tests are taking place at four locations along the ANF corridor. The tests at Towers 29 and 83 were completed during the subject period.
6. Micropile crews mobilized drilling equipment to Tower 34 to begin the first micropile foundation installation. Micropile equipment, including drill rigs and grout, are being transported by helicopter (see Figure 1).
7. The access to Tower 88 was improved during the subject week (see Figure 2). 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. Mr. Geer also noted that the erosion control crew was working without fire tools or water in the work area. Approval from the Fire Marshall Officer was granted for this crew to continue working past 1pm on an EV day, provided that they had the required fire tools on site.
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, & 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, #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. Six 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. A TEWS was requested on Friday to allow the crews to access the wood poles, since no access routes were originally proposed. The CPUC EM approved the TEWS and the pole removal work was conducted. Archaeological, Native America, and Environmental Monitors were present for this work.
2. Grading, foundation drilling, and setup of the 500kV towers started on August 20th. 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 14th. 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 30th. 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.
2. SCE crews conducting wire removal on the original 66 kV wood poles began work on Wednesday without notifying the Burns and McDonnell Environmental Monitors. This portion of the 66 kV work had not been cleared for biological resources and no disturbance areas had been flagged. The CPUC EM was notified once it was discovered that the SCE crews were working. A Non-Compliance Report was issued to SCE. A similar incident was recorded in Table 4 on October 15.

Environmental Compliance:

1. Biological clearance survey reports for the 500 kV and remaining portions of the 66 kV line are 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.

One Non-Compliance Report was issued by the CPUC EM for work being conducted within Segment 2 prior to disturbance area flagging and biological survey sweeps having been conducted. Non-Compliance activities for the project to date are summarized in Table 4 near the end of this report.

SEGMENT 3A

The NTP for Segment 3A (NTP #17) was issued by the CPUC on October 22, 2008. The NTP for the Windhub Substation (NTP #19) was issued by the CPUC on December 1. 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 31st. 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 been postponed in Segment 3A, because construction is not planned until March or April of next year. 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 12-12-08)

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

NTP #/ Permit	Date Requested	Date Issued	Segment #	Description
#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 12-12-08)

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

Variance Request	Date Requested	Date Issued	Segment #	Description
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.
VR #21	11/24/08	12/10/08	1	Approval to leave two foundations in place at wreck-out tower 25/1
VR #22	12/08/08	12/10/08	2	Use of existing disturbance areas as helicopter landing zones, Segment 2.

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

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 Request	Date Requested	Date Approved	Segment #	Description
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	2	Use of 2 acres of disturbed land in the Lane Ranch for parking equipment, Segment 2.
TEWS 11	12/05/08	12/05/08	1	Overland travel access in disturbed areas for 12 kV pole removal.

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 12-12-08)

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	November 6, 2008	Segment 1, Section 3	12 kV underground crews began work before disturbance areas had been flagged and biologically surveyed.
Incident	November 18, 2008	Segment 1, Section 2	No topsoil was separated prior to grading near NC 33.
Non-Compliance	December 1, 2008	Segment 1	Construction vehicles crossing through flowing waters of Bouquet Creek to access the Pumpkin Yard.
Non-Compliance	December 3, 2008	Segment 2	SCE 66 kV crews working without notifying Environmental staff and no disturbance areas had been flagged.

PROJECT PHOTOGRAPHS



Figure 1: Helicopter use in Section 2 on the ANF for equipment mobilization to micropile sites.



Figure 2: Widening of ANF road to avoid tower 88 foundation.