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PROJECT MEMORANDUM

ANTELOPE PARDEE PROJECT, SEGMENT 1

To: John Boccio, Project Manager, CPUC
Justin Seastrand, Project Manager, ANF
From: Vida Strong, Aspen Project Manager
Date: September 11, 2008
Subject: Weekly Reports #33 and #34, August 24–September 6 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 took place in all three sections of Segment 1.

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. Guard structures were installed along road crossings in Valencia in order to protect roadways during new conductor installation between new towers 2 and 11. The conductor installation is scheduled to take place Monday, September 15. Helicopters will be used to string the sockline into the towers and then conductor will be pulled back through the section, sagged, and clipped in to its permanent position.
2. Traveler installation on new towers 2-11 is taking place in preparation for the wire stringing activities.
3. One Temporary Extra Work Space Request was approved by the CPUC EM on September 4th for additional space needed during the upcoming wire stringing activities near new tower 2.
4. 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 is not delineated on disturbance maps. This request will be addressed in an upcoming Variance Request by SCE.



5. Tower assembly continued at new structure 1B, within the Pardee Substation.
6. 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.
7. 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 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).

The NTP from the CPUC for the Phase 1 activity was issued on July 18th.

Construction 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 28th, 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. Removal of the 66 kV conductor began on August 8th. As of September 5th, over 15 miles of conductor wire has been removed from the existing 66kV towers in the ANF (Phase 1 of Section 2).
3. Mowing of the Hydrant Yard has been completed and is being actively used for steel assembly. A helicopter fueling area has been constructed to contain any potential spills associated with fueling operations (see Figure 1).

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. On August 8th, a small oil spill occurred at pulling site 13. The spill was immediately contained and the contaminated material was removed from the site.
4. 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.
5. Fugitive dust was observed leaving the Hydrant Yard on one occasion August 28th. This occurred while dropping steel at the Hydrant Yard; two flat-bed trucks drove inside the yard without a water truck having wetted the road in front of them. This was brought to the attention of the contractor.

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 25th. Construction activities approved under NTP #2 continued for the Antelope Substation expansion work.

Construction activities under NTPs #2, #10, and #11 during the subject week consisted of the activities noted below. United Construction is the subcontractor to PAR responsible for the installation of the 12 kV distribution line and 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. 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.
2. Construction activities covered under NTP #10 for the Hughes Lake 12 kV distribution line began on July 12th. Construction crews are working 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. All the original 12 kV poles have been removed.

3. Wreck-out of the 66 kV conductors and towers began on September 3 (see Figure 2). 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.
4. Grading, foundation drilling, and set-up of the 500kV towers started on August 20th. Road and pad grading crews started working from Elizabeth Lake Road north and also from the Antelope Substation south.

Environmental Compliance:

1. On August 26th, the CPUC EM noticed that a section of old 12 kV poles had been removed along 110th 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. As of September 10th, the requested information has not been submitted by SCE.
2. During the mobilization of an auger machine to another part of Section 3, traffic control followed the equipment along 110th Street and Johnson Road to the access gate onto private property. For the most part, the tracked auger machine stayed on the road shoulder, but did travel on the paved roads in a few places, causing damage to the asphalt (see Figure 3).
3. Fabric and rock was installed to protect a drainage crossing a Section 3 road, as requested by CDFG (see Figure 4).
4. 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 7th (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 8th. Clearance of the subject condemnation property will be conducted by the CPUC EMs in a similar fashion, prior to construction.
5. One special status animal (a horned lizard) was observed near the California Aqueduct during the subject period. Holes drilled for tower foundations continue to be checked for trapped animals. If identified, project biologists have been removing them and releasing them nearby.
6. Archaeological and Native American Monitors were present during construction of the 12 kV, 66kV wreck-out, and 500kV construction when required.

One Project Memorandum (PM) was issued on August 26th for 12 kV project activities taking place without a Variance Request approval.

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 09-11-08)

NTP #/ Permit	Date Requested	Date Issued	Description
CPUC NTPs			
#1	Oct 10, 2007	Oct 16, 2007	Mojave Marshalling Yard. Per the request, the yard will primarily be used to store construction equipment and materials for the project.
#2	Nov 16, 2007	Dec 10, 2007	Antelope Substation construction and expansion, as well as the use of two adjacent contractor laydown yards.
#2 Mod	Dec 21, 2007	Jan 2, 2008	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	Jan 10, 2008	Jan 16, 2008	Use of five contractor laydown yards as named Pumpkin Yard, Pottery Yard, Pardee Substation Yard, Mechanics Yard and Avenue I Yard.
#4	Jan 29, 2008	Feb 4, 2008	Use of the Racetrack Marshalling Yard.
#5	Feb 19, 2008	Feb 28, 2008	Shoofly Construction, Section 1.
#5 Mod #1	March 11, 2008	March 19, 2008	Use of a new soil disposal site for the Shoofly construction, Section 1.
#5 Mod #2	March 24, 2008	March 26, 2008	Removal of the 66 kV conductor on the Saugus–Del Sur line during the outage scheduled for March 27, 2008.
#6	March 19, 2008	March 29, 2008	Use of three additional construction yards, Rodeo, Blue Cloud, and Pumpkin expansion. Rodeo yard approved under NTP #9.
#7	April 3, 2008	May 8, 2008	Section 1 Construction.
#8	May 1, 2008	May 9, 2008	10 acre marshalling yard near Antelope Substation.
#9	March 18, 2008	June 18, 2008	Rodeo Yard
#10	June 2, 2008	June 25, 2008	12 kV line (Hughes Lake Distribution Line).
#11	June 3, 2008	June 25, 2008	Section 3 construction.
#12	June 27, 2008	July 8, 2008	Hydrant Yard
#13	July 17, 2008	July 18, 2008	Removal of the 66 kV conductor within the ANF Phase I, from tower 7-3 (near southern Forest boundary) to 16-3 (near Bouquet Reservoir).
ANF PERMITTING			
	Nov. 29, 2007	Dec. 14, 2007	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
	Sept. 27, 2007	Dec. 14, 2007	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
		July 14, 2008	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.

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 FOR SEGMENT 1
(Updated 09-11-08)

Variance Request	Date Requested	Date Issued	Description
VR #1	April 1, 2008	April 3, 2008	Change in construction of a overland travel road to Shoofly pole 18, to a temporary road construction method.
VR #2	April 18, 2008	April 19, 2008	Several expanded stringing sites, new staging areas, and guard pole installation sites for the removal of the 220 kV line.
VR #3	April 24, 2008	April 25, 2008	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	May 8, 2008	May 9, 2008	Weekend work along the 66 kV line in Section 1
VR #5	July 15, 2008	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	July 30, 2008	July 30, 2008	Modification to the notice and review requirements under Mitigation Measures L-5 and L-6.
VR #7	August 12, 2008	August 16, 2008	Wire Stringing site in Section 1 between NC 11 and 12.
VR #8	August 20, 2008	August 27, 2008	Guard poles at Haskell Canyon outside of approved disturbance areas.
VR #9	August 19, 2008	September 9, 2008	Valuzet Movie Ranch Helicopter Landing Zone, Section 1.
VR #10	August 21, 2008	August 27, 2008	Permission to leave one tower foundation in place at wreck out tower 24/2 in Section 1, due to likelihood of slope failure.

TABLE 3
TEMPORARY EXTRA WORKSPACE (TEWS) REQUESTS FOR SEGMENT 1
 (Updated 09-11-08)

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	Sept. 4, 2008	Sept. 4, 2008	Use of Staging area adjacent to NC 2 in Section 1.
TEWS 7	Sept. 4, 2008	Sept. 4, 2008	Use of dirt road adjacent to ten acre yard, Section 3.

PROJECT PHOTOGRAPHS-SEGMENT 1



Figure 1: Construction of helicopter and fueling containment pad Hydrant Yard.



Figure 2: Dismantling of 66 kV towers in Section 3.



Figure 3: Damage to asphalt during transport of the auger machine along 110th Street.



Figure 4: Installation of fabric and rock to protect a drainage crossing an access road in Section 3.