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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: July 31, 2008
Subject: Weekly Reports #27 and #28, July 13-26, 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, #10, and #11 for construction of Section 3, including the Antelope Substation. 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 was onsite July 15-18 and 21-24. Arturo Ruelas was onsite July 23-25.

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. Road building and crane pad construction for access to new tower locations to support the Antelope Pardee 500 kV transmission continued. PAR crews conduct road construction from west to the east along the project alignment, followed by foundation drilling, concrete pouring, and tower assembly.
2. Tower foundation drilling was completed at NC 1a, 1b, 18, 19, and 20 during the subject period. The construction of several new 500 kV tower foundations is on hold due to difficulties with the removal of the existing 220 kV towers and conductors. 220 kV conductors on wreck out towers between San Francisco Road and Haskell Canyon Road have been removed and the existing 220 kV towers are in various stages of being dismantled. Between Haskell Canyon Road and NC 25 (on the east end of the Shoofly), the conductor is still in place until a plan is developed to safely remove the conductor over the LADWP transmission line corridor located in Haskell Canyon. Although the conductor has not yet been removed completely, the wires have been lowered to the ground and anchored in some cases to allow crews to dismantle the 220 kV wreck out towers. SCE has installed chain link fencing around these areas to protect the public from entering these areas.



3. Concrete pouring took place once the re-bar cages were placed into the foundation holes. Steel corners were anchored into the concrete in order to support the tower construction.
4. New 500 kV towers are in various stages of completion between the Pardee Substation and San Francisco Road (see Figure 1).
5. Four new 500 kV tower locations are inaccessible due to property condemnation proceedings (NC 26a, 26b, 26c, and 28). Once the property is acquired by SCE, biological clearance surveys will have to be conducted prior to any construction in these areas.
6. Along the Saugus–Del Sur 66 kV line, all but two towers have been dismantled in Section 1; these are on hold until the 66 kV conductor is removed in the ANF. SCE prepared a tower footing removal demonstration for the Angeles National Forest staff on June 16th. The ANF will determine if SCE will be required to completely remove all 66 kV tower footing on the ANF or if the foundations could be cut off at two feet below grade and backfilled. This decision by the ANF is still pending.
7. The CPUC EMs conducted a field tour of the Hydrant Yard prior to the issuance of the NTP. The Hydrant Yard is on Los Angeles Department of Water and Power (LADWP) property near Bouquet Reservoir, and a lease agreement has been issued for yard use by SCE. Conditions included in the lease agreement include that a pedestrian cultural resource survey will be conducted after vegetation mowing has been completed and soil sampling be conducted prior to yard use. A biological clearance survey was conducted and the results were submitted to the CPUC. Several woodrat middens have been identified in the area. CDFG consultation will be required if any of the woodrat middens need to be removed.
8. Biological monitoring and associated biological clearance surveys of Section 1 construction areas was 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. Updated biological resource maps were provided on July 12th, which accurately showed biological resource locations. An updated bird nesting tracking table was also provided to field monitors. Project components including tower numbers and locations of wreck out towers were added to the maps.
2. Because nesting bird surveys within a 500-foot buffer of project areas were not included in the original pre-construction biological survey report dated March 7, project biologists are conducting pre-construction biological sweep surveys (including a breeding bird survey within 500-feet) in advance of construction activity in order to comply with Mitigation Measure B-6. SCE's Biological Monitors are relying on construction personnel to give them advance notice when moving into a new area that has not been recently surveyed. Results of the construction sweeps are to be submitted to the CPUC on a weekly basis, per the NTP. Any new bird nest or other biological resources identified in Section 1 are to be added to resource maps and distributed on a weekly basis to the monitoring team, CPUC, and CDFG as requested by Dan Blankenship (CDFG).
3. An active Kingbird nest was found on the 220 kV wreck out tower next to NC 17. While crews were dismantling the tower, the workers observed the active nest. SCE coordinated with CDFG and USFWS and gained permission to relocate this nest to an adjacent nest box so that the tower could be dismantled. On Tuesday July 20th, the nest was moved into the nest box (see Figures 2 and 3). The nest contained two kingbird chicks. The adult birds were unable to locate the nest, and after two days the chicks were taken to a wildlife rehabilitator in Ventura.
4. Erosion controls are being installed once construction crews have completed ground disturbing activities.

No Non Compliance Reports (NCR) or Project Memoranda were issued during the subject week.

Agency Representatives:

None.

SECTION 2, ANF & ADJACENT YARDS

ANF Representatives: Justin Seastrand

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

Summary of Activity:

No construction activity took place on the ANF (Section 2) during the subject period.

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 above activity was issued on July 18th.

Environmental Compliance:

No Non-Compliance Reports were issued by the ANF during the subject week.

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

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 (see Figure 2), 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 following activities.

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 are currently constructing 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 (see Figures 4 and 5). Holes were drilled in advance of pole setting crews. The holes were covered with plywood squares and fenced until the poles were set, in some cases a few days later. The Biological Monitors noticed that several rodents were trapped in the excavated holes once the plywood covers

were opened. The biologists used a net on a pole to remove more than 20 individuals (Kangaroo Rats and Deer Mice) from the holes and released them off site. The CPUC EM recommended that the plywood covers be buried to avoid any gaps where small mammals could enter. Once this was done, the number of animals found in the holes has been reduced.

3. In Section 3, three abandoned raven nests were removed from 66 kV towers during the subject period. These nests were removed to prepare for the eventual removal of the 66 kV transmission towers. No construction activities have taken place under the Section 3 NTP (NTP #11).
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. 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.

Environmental Compliance:

1. Cultural Monitors were present during construction of the 12 kV line in the area of a pre-historic archaeological site near the California Aqueduct.
2. Access roads and work areas appear to be adequately watered.

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 07-31-08)

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, 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).

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 07-31-08)

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	Biological and cultural surveys need to be submitted	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.

TABLE 3
TEMPORARY EXTRA WORKSPACE (TEWS) REQUESTS FOR SEGMENT 1
 (Updated 07-31-08)

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	7/3/08 – Site review only; paperwork pending	Variance required if vegetated area is proposed.	Extra Workspace for steel placement and tower assembly near NC 13.

PROJECT PHOTOGRAPHS - SEGMENT 1



Figure 1: Between the Pardee Substation and the beginning of the Shoofly, the new 500 kV towers are being constructed in the center position of an existing SCE right-of-way. The towers on the left are currently supporting the Santa Clara-Vincent line, these towers will be dismantled and the conductor strung onto one side of the new double circuit towers.



Figure 2: A western kingbird nest containing two chicks was removed from a wreck out tower near NC 17, once authorization from resource agencies was obtained.



Figure 3: The kingbird nest was placed into a nest box near the tower. Although the chicks were in the area, the adults did not continue to care for the chicks. The chicks were eventually taken to a rehabilitation center in Ventura.



Figure 4: Drilling for the Hughes Lake Distribution Line near the California Aqueduct.



Figure 5: The 12 kV distribution poles set along Avenue K.