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PROJECT MEMORANDUM

ANTELOPE TRANSMISSION PROJECT, SEGMENTS 1, 2 AND 3A

To: John Boccio, Project Manager, CPUC
Justin Seastrand, Project Manager, ANF
From: Vida Strong, Aspen Project Manager
Date: May 6, 2009
Subject: Weekly Reports 66 and 67: April 12–25, 2009.

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: Antelope-Pardee

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. In addition, work continued under NTP #18 and the Special Use Permit (SUP) for construction of Section 2, Angeles National Forest. 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 of Santa Clara Vincent line) of the Antelope Pardee Transmission Line Project authorized under NTP #5 was energized between May 2008 and March 2009 and has been removed. NTP #7 for Section 1 of Segment 1 was issued by the CPUC on May 8th. Construction activities approved under NTP #7 include the removal of the Saugus–Del Sur 66 kV line and towers, the construction of the new 500 kV double circuit lattice towers, and the removal of the existing 220 kV Santa Clara Vincent line and towers. The lattice tower structures originally supporting the Santa Clara-Vincent 220 kV line have been replaced with the 500 kV double-circuit towers to accommodate both the Santa Clara Vincent and Antelope Pardee lines between the Pardee Substation and Structure 25 in Santa Clarita. Construction activities under NTPs #5 and #7 during the subject period consisted of the following activities.

1. Final wire installation work along the new 500 kV double circuit towers has been completed between the Pardee Substation and Structure 25.
2. All new lattice steel towers have been erected in Section 1, wire conductor installation between structures 25 and 28 (the last towers in Section 1) is expected to occur once the towers in Section 2 are completed.



3. Removal of the original 220 kV Santa Clara-Vincent lattice towers began in Section 1. SCE crews plan to remove 4 out of the 14 wreck-outs that remain.
4. Road recontouring of the temporary Shoofly access roads is currently taking place. Revegetation of these areas is planned for later this year.

Environmental Compliance:

1. Burns and McDonnell environmental staff are conducting regular monitoring of Section 1 work areas and wreck-out towers for bird nesting activity.
2. An active bird nest was found along the access road to Shoofly 15. Work has been redirected in this area until the birds fledge.
3. SCE submitted a request to reopen the Lower Pumpkin Yard for construction use. The request was approved by CDFG with the same conditions as before, that access to the yard would not take place during flows of Bouquet Creek which supports an endangered fish species and crosses the entrance to the yard. If water is present, crews are not permitted to cross the drainage and are required to notify CDFG and the CPUC.

No CPUC Non-Compliance Reports (NCR) or Project Memoranda (PM) was issued during the subject period for Section 1 Construction. Non-Compliance activities for the project to date are summarized in Table 4.

Agency Representatives:

None.

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 Arturo 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; a Notice to Proceed (NTP) from the CPUC was issued on October 27th. The 66 kV conductor removal has been completed and was permitted by a separate SUP issued by the ANF and NTPs issued by CPUC.

Construction of Section 2 on the ANF began on November 12th. Crews assemble each morning at the Pottery Yard on Bouquet Canyon Road at 6am. Crews plan to work 6 days a week if Project Activity Levels (PAL) allow. Sunday micropile work has also been authorized by the ANF. PAL levels for the subject period are summarized below:

Date	Project Activity Level (PAL)	Activity Allowed/Conducted
Sunday, April 12	n/a	Work is allowed
Monday, April 13	C	Work is allowed
Tuesday, April 14	C	Work is allowed
Wednesday, April 15	A	Work is allowed
Thursday, April 16	C	Work is allowed
Friday, April 17	D	Work is allowed
Saturday, April 18	D	Work is allowed
Sunday, April 19	n/a	Work is allowed
Monday, April 20	E	No work without Variance
Tuesday, April 21	E	No work without Variance
Wednesday, April 22	E	No work without Variance
Thursday, April 23	C	Work is allowed
Friday, April 24	B	Work is allowed
Saturday, April 25	A	Work is allowed

Construction activities during the subject period consisted of the following:

1. Brush clearing crews have completed clearing vegetation in disturbance areas on the ANF; however, some tower assembly areas and fly yards may require additional vegetation mowing if they will continue to be used for construction.
2. Footing preparation crews have completed hand digging on all ANF tower sites. The hand excavations/footing preparation takes place prior to the mobilization of the micropiling crews.
3. Micropiling crews are constructing foundations between Structures 78-87 on the ANF. Grouting crews are working out of the Hydrant Yard for the micropiling operations; grout is flown into the micropile sites from the Hydrant Yard. All towers on the ANF are constructed with micropile foundations except for the road accessible sites (4 towers total).
4. Tower foundation capping is taking place after micropiling has been completed. The foundation capping crews worked between structures 65 and 74 during the subject period. Concrete for the foundation caps is being flown out the assembly areas on Del Sur Ridge and out of the Hydrant Yard.
5. Tower section assembly is occurring within the tower assembly areas on the ANF, as well as in nearby yards.
6. The heavy lift helicopter, an Ericsson skycrane, is scheduled in June to fly in and assemble tower sections for structures 57-87.
7. United Construction crews (PAR's subcontractor) finished removing the 66 kV lattice towers from the ANF; however, some of the foundations have been left for removal at a later time.

Environmental Compliance

1. Microtrash on the ANF continued to be present in assembly areas and at tower sites. The ANF permit administrator indicated that microtrash must be collected at all work areas at the end of each day. This issue will be continually monitored during construction on the ANF. Burns and McDonnell have dedicated monitors to survey the work areas for microtrash.
2. A Sage sparrow nest (now containing eggs) was identified within 50-feet of SR 41. Biologists will continue to monitor the nest during construction activities.
3. An inspection of the newly constructed roads on the ANF was conducted by Mike Roberts, ANF. Mr. Roberts noted several road drains would require regular cleaning out and run off silting in areas of riprap along SR 52 should be monitored.

4. All vehicles and equipment are being washed before entering ANF lands at the Pumpkin Yard wash station. The wheel wash, which is on the north side of Bouquet Creek and does not require use of the stream crossing for access, will remain in its current location. Other wheel wash stations have been set-up at the entrance to Spur Roads 41 and 52, Spunky Edison Road, and the access to Towers 76-77. All vehicles and tracked equipment must be washed prior to entering these new roads in order to minimize the spreading of invasive plant species in the recently disturbed soils.
5. As approved by the ANF Permit Administrator, PAR will replace tarps on the footer excavation with ramps of either lath or 2x4 inch wood studs in order to facilitate wildlife that might fall in to exit and not become trapped in the foundation footing holes.
6. Changes to two activities were granted by the ANF Project Administrator. Tower assembly and chipping of vegetation in Landing Zones can continue beyond 1pm on EV days. These two activities can occur as long as a water truck is present with a minimum of 300 gallons of water and a charge hose, and all the vegetation has been cut down to two inches.
7. The ANF Permit Administrator has requested that all topsoil storage sites (SR 41, 52, and 73 and associated WSS sites) be flagged and identified with ESA signs.
8. There must be a ten foot clearance around all equipment and engines, and all the vegetation must be cut to a minimum height of two inches.
9. SCE must provide updated bird nest tracking tables and maps on a weekly basis to all project biological monitors and CPUC EMs.

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

Agency Representatives during Construction (other than ANF representatives and the CPUC EMs):

None.

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 constructions and dismantling of the 66 kV transmission line) were issued by the CPUC on June 25th. In Section 3, a combination of single circuit lattice towers and tubular steel poles are used to support the new 500 kV line. 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, and the line was energized on September 2nd.

Construction activities under NTPs #2 and #11 during the subject period consisted of the activities noted below. PAR Construction is responsible for constructing the 500 kV structures.

1. Most towers in Section 3 have been assembled, with the exception of towers entering the Antelope Substation. Wire stringing, clipping in, sleeving, and sagging was completed between Towers 96 and 112.
2. 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 continued the construction of the new substation components within the expansion area.

Environmental Compliance

1. Several new nests were identified in Section 3. Near Structure 104, a pair of kestrels and a pair of great horned owls were observed. The kestrels were believed to be nesting in one of the arms of the TSP and were monitored during work at this pole. Near this structure, a pair of great horned owls was identified nesting in a tree. Work within 300-feet of these nests will require approval from CDFG.
2. A great horned owl and a raven nest have been identified in the Antelope Substation. According to SCE, both nests will not be impacted by nearby construction and will be left in place.

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

Agency Representatives during Construction (other than CPUC EMs):

None.

SEGMENT 2: Antelope-Vincent

Summary of Activity:

The Notice to Proceed for Segment 2 construction (NTP #14) was issued by the CPUC on September 30th. Segment 2 involves the construction of a new 21.0-mile single-circuit 500 kV transmission line initially to be energized at 220 kV and 0.6 miles of a new 220 kV transmission line connecting SCE's Antelope Substation in the City of Lancaster to the Vincent Substation in incorporated Los Angeles County. Segment 2 also includes demolition and relocation of 4.4 miles of existing 66 kV sub-transmission line to accommodate construction of the new 500 kV transmission line in the right-of-way and modifications to the Vincent Substation.

1. The 66 kV line has been relocated and energized between the Antelope Substation and the California Aqueduct. All of the original wood poles have been removed. Two of the new wood poles were replaced with Tubular Steel Poles (TSPs) during an outage.
2. During the subject weeks, PAR crews began working around two of the three "Hijack" areas: Northern Hijack Towers 23-30 and Middle Hijack Towers 33-37. Construction activities included the stringing of the new conductor (wire) between Towers 23-30, the modification of existing transmission structures, and the setting of guard structures (guard poles) for the protection of roadways and other transmission or distribution lines during the wire stringing operation.
3. PAR crews started work on the existing Sagebrush Transmission Line Modifications at three locations. North of Elizabeth Lake Road, North of Sierra Highway, and Vincent substation. These modifications are required in order to construct Segment 2. The new Midway-Vincent transmission line, built on new infrastructure, would travel underneath other existing transmission lines in the existing Midway-Vincent right-of-way.
4. Wire stringing for the Northern Hijack between Towers 25-33 was partially completed during the subject weeks, and was conducted during an outage. The remainder of the stringing work will take place in these areas when another outage is scheduled.
5. Modification of Sagebrush Structure 211 continued. The existing single pole tangent structure was replaced with a 2-steel pole H-frame structure (211-1/211-2) in the same location.
6. Modification of Sagebrush Structures 249 and 250 continued. These single pole structures are being replaced with 2-steel pole H-framed structures (249-1/249-2 and 250-1/250-2) in the same locations.
7. At the Vincent Substation, PAR replaced existing Tower 266 with a taller 2-steel pole H-framed structure (02-1/02-2) in the same location.

8. All the TSPs for the shoofly component near the Vincent Substation have been installed and crews are ready for the scheduled outage in order to remove the wire along the Eagle-Vincent 220 kV line between Structures 18-3 and 27-1.
9. Access roads for the 500 kV towers have been completed in most areas of Segment 2. During the subject weeks, access road to Tower 85, 103, 106,108, 118-119 and Sagebrush Tower 250 were completed. Access Road (AR62) near Tower 83 was put on hold after a lark sparrow nest was found with four eggs in it less than 20 feet away from the road.
10. Drilling of foundations, 71-86, 88, 89, 98-105, and 108 were completed during the subject weeks.
11. Concrete pouring occurred at foundations for Towers 59-68, 76-80, 88, 89, 99-105 and 108.
12. Steel assembly continued at Towers 3-40, 42-44, 46, 48, 106, 117-120, and VSF-1-VSF-5. Assembly at Towers 19 and Sagebrush 2A, 211, 249, 250 has been completed.
13. A project construction vehicle overturned on Segment 2 near Tower 66 resulting in a spill of several gallons of fuel. The truck was parked and the brake became disengaged; no injuries were reported.
14. Four Temporary Extra Workspaces were requested and approved on April 15, 17, 23, and 25 (see Table 3).
15. Grading of Wire Stringing Sites (WSS) 16, 33, and of snub site 35 was completed. WSS-39 was put on hold after an active nest (California thrasher with eggs) was found in the nearby vegetation.

Environmental Compliance:

1. On April 21st, the CPUC EM learned that SCE had contacted USFWS and CDFG for approval to remove three active house finch nests from equipment in Segment 2 and at the Avenue J Yard. The CPUC EM reminded Burns and McDonnell environmental staff that the CPUC requires documentation of approvals granted by resource agencies prior to this activity occurring. Artificial nesting boxes were used to relocate the nests into, but the adult birds did not follow and incubate the eggs in all three cases (see Figure 1).
2. On April 25th, another house finch nest containing one egg was moved into a nest box at the Hydrant Yard by Burns and McDonnell environmental staff. In this case, prior approval from CDFG and USFWS was not granted before this nest removal took place. This nest was also abandoned by the adult birds. SCE was reminded again that the documentation for active nest removals must be provided to the CPUC prior to moving the nests.
3. As conditioned in the NTP, all sensitive resources are being flagged for avoidance and verified by the CPUC EM prior to construction.
4. An addendum for modifications to the Sagebrush structures in Segment 2 was approved by the CPUC on March 16. Work associated with the modifications is occurring once the biological clearance surveys have been completed and field verified by the CPUC EM.
5. Juniper and Joshua trees impacted by construction are being tracked by Burns and McDonnell environmental staff for future mitigation.
6. For the Amargosa Creek crossing, additional Best Management Practices (BMP's) were added along the roadway to capture silt and other debris before it enters the creek. No rolling dips, straw wattles or water bars will be installed or constructed within the creek channel.
7. Several partially constructed or abandoned raven nests were removed in Towers 23, 26, 32, and 33. Nests in SCE towers to be removed for the Hijack near Structures 76 and 79 will be left in place since PAR does not anticipate work in those towers for some time.

No Non-Compliance Reports were issued by the CPUC EM for the subject week for work being conducted within Segment 2. Non-Compliance activities for the project to date are summarized in Table 4 near the end of this report.

Agency Representatives during Construction (other than CPUC EMs):

None.

SEGMENT 3A: Antelope-Windhub

The NTP for Segment 3A (NTP #17) was issued by the CPUC on October 22, 2008. Segment 3A involves the construction of a new 25.6-mile 500 kV transmission line initially energized at 220 kV connecting SCE's Antelope Substation in the City of Lancaster to the new Windhub Substation on Oak Creek Road in the Tehachapi area of Kern County. The NTP for the new Windhub Substation (NTP #19) was issued by the CPUC on December 1. Several properties in Segment 3A are in the condemnation process. Construction activities during the subject period are summarized below.

Summary of Activity

1. Many areas of Segment 3A have not been released for construction because of real estate acquisition. As new areas become available, SCE submits the biological clearance survey information to the CPUC, the resources are flagged for avoidance and the CPUC EM verifies that the flagging is in place prior to construction. To date, the following areas have been verified by Aspen and are released for construction: Towers 2, 3, 10, 11, 17, 18, 21-42, 52-95, and 97-103.
2. Brush clearing at Tower sites 2, 3, 9-11, and 21-27 were completed during the subject period. Other structures near the Antelope Substation did not require brush clearing.
3. Tower foundations have been installed at Towers 2, 3, 9-11, 17-18, 21-32, 89-95, and 97-103.
4. A Temporary Extra Workspace was requested and approved by the CPUC EM on April 16 to avoid a damaged fiber optic vault along an access road to Tower 2.
5. Vegetation clearing at the Windhub Substation site began on April 21st (see Figure 3). Biological, archaeological, and Native American monitors were present during this activity. Windhub grading contractors plan to work Monday-Thursday each week.
6. On April 21st, the CPUC EM was notified that 2 desert tortoises were reported in the area between Tehachapi Willow Springs Road and Oak Creek Road (one on each side of the Segment 3A alignment between Towers 17 and the Windhub Substation). The tortoise sightings were reported to SCE the prior week by non-project biologists surveying these areas for a future wind farm project overlapping the Segment 3A corridor. SCE conducted 2 years of protocol level surveys (in 2007 and 2008) focused for desert tortoise with negative results. The CPUC EM met with the Burns and McDonnell Environmental Lead for Segment 3A and the biologist who identified the tortoises to get more information on the exact location. The tortoise biologist indicated that 2 adult female tortoises were observed on each side of the Segment 3A project alignment (within .47 and 1.04 miles) and that other observations included scat and burrows (no locations were given for the scat or burrows). The desert tortoise is both a Federal and State Threatened Listed Species. The USFWS and CDFG were notified by SCE of the tortoise sightings on April 22nd.

Environmental Compliance:

1. In response to the sightings of desert tortoises in the area, CDFG and USFWS have required tortoise fencing adjacent to construction zones, tower and pulling sites that border the area where the tortoises were found. SCE has agreed to install tortoise fencing at tower/pulling sites between Towers 7-14, in the area where the tortoises were observed. Fencing will also be installed around the Windhub Substation site. Other measures SCE proposed to avoid impacts to the desert tortoise during construction include:

- a. An educational flyer be distributed with desert tortoise information and avoidance measures
 - b. Speed limit of 15 miles per hour
 - c. All equipment will be checked for tortoises underneath them prior to being moved
 - d. Flagging of project access roads to ensure that only approved project roads are used
 - e. Biological monitors used in Segment 3A to have previous desert tortoise experience
 - f. If a tortoise is observed in project areas, it can not be moved to facilitate construction
2. On April 22nd, Aspen Biologists, Chris Huntley and Jennifer Lancaster, met with CPUC EM, Jenny Slaughter, to tour areas of Segment 3A to ensure that tortoise protection measures were being implemented. During the tour of the area, several project access roads were observed with little or no flagging to indicate which roads could or could not be used. Open foundation holes (drilled) were found to be covered with plywood and surrounded with orange construction fencing (see Figure 2). At these locations, gaps were evident between the plywood and the ground surface, and the fencing was ripped or down in some locations. Some foundation holes partially dug were left uncovered during the day. Also observed were trucks traveling over 15 miles per hour and equipment moving without checking underneath for tortoises. These observations were all related to SCE at the end of the field tour.
 3. On April 23rd, a project stand down meeting was held at the Antelope Substation office trailer to discuss the protective measures required for the desert tortoises for the project. Construction foremen, environmental staff, and the CPUC EMs were briefed on the above measures necessary to avoid impacts to the desert tortoise. After the meeting, construction crews were allowed to resume work in some locations of Segment 3A. Work between Towers 7-14 can resume after the tortoise fencing has been installed.
 4. At the Windhub Substation construction site, the CPUC EM observed large clouds of fugitive dust blowing across Oak Creek Road on April 22nd (see Figure 4). SCE was reminded that they were responsible to control dust at construction sites at all times (grading crews are only working Monday–Thursday).
 5. On April 16th, after another field verification of flagging for resources and work areas by the CPUC EM, Towers 27-41 were released for construction.
 6. A protocol level survey report for Western burrowing owls was submitted on April 19th for all project areas in Segment 3A.
 7. As proposed in the Segment 3A stream crossing report, several drainages require protection prior to construction activity to protect streambed and banks. Once these areas are addressed, construction can proceed in these areas.
 8. Capping of access roads for the protection of cultural resource sites is required in Segment 3A. To date, none of the access roads have been capped. The CPUC EMs have requested a timeline of when this is expected to occur.
 9. Partial authorization regarding the letter report for the Bean Springs archaeological site CA-KER-2821/H dated November 26, 2008 and received on February 3, 2009, was issued by CPUC on February 19th. Work at TSP 3A-43 is authorized to proceed; however, no work shall occur at TSP 3A-44 and associated ADI and access road until the Final Report is submitted for review and approval.

No Non-Compliance Reports were issued by the CPUC EM for the subject period for work being conducted within Segment 3A. Non-Compliance activities for the project to date are summarized in Table 4 near the end of this report.

Agency Representatives during Construction (other than CPUC EMs:

Dan Blankenship, CDFG.

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 05/06/09)

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 1 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 conductors 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 conductors 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 conductors 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.
#20	03/20/09	04/02/09	2	R-8 marshalling yard, City of Palmdale.

NTP #/ Permit	Date Requested	Date Issued	Segment #	Description
CPUC Addendum	01/29/09	03/16/09	2, 3	Modifications to Sagebrush Structures in Segment 2, addition of a 12 kV distribution line at Windhub Substation.
CPUC Addendum	03/12/09	4/23/09	3	Addition of a water well at Windhub Substation
CPUC Addendum	4/15/09	4/28/09	3B	Modifications to Wilderness structure in Segment 3B
CPUC Addendum	04/24/09	Under review	3B	Change towers 78 and 79 from tubular steel poles to lattice steel towers.
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 05/06/09)

Variance Request	Date Requested	Date Issued	Segment #	Description
VR #1	04/01/08	04/03/08	1	Change in construction of an 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).
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 crossings.
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

Variance Request	Date Requested	Date Issued	Segment #	Description
VR #22	12/08/08	12/10/08	2	Use of existing disturbance areas as helicopter landing zones, Segment 2.
VR #23	01/07/09	01/12/09	1	Additional disturbance area near Construction Tower 25 and WSS14 on Section 1.
VR #24	01/08/09	01/27/09	1	Underground fiber optic line for Tower 13 on Section 1
MOD VR #24	02/20/09	03/24/09	1	Modify fiber optic line alignment to Tower 13.
VR #25	01/13/09	01/14/09	1	Work on Sunday, Jan 18, during LADWP outage over Haskell Canyon.
VR #26	01/20/09	01/22/09	1	Permanent lift structure M88-T1A southwest side Antelope substation.
VR #27	01/29/09	01/30/09	1	Extension of approved construction work hours Structures 22 and 23 (Haskell Canyon Crossing).
VR #28	02/02/09	02/04/09	1	2 nd wire stringing site for Tower 16.
VR #29	01/29/09	02/06/09	3A	Use of existing disturbance areas as helicopter landing zones, Segment 3A.
VR #30	02/02/09	02/09/09	2	New dead-end lattice tower, New Construction #115.
VR #31	02/19/2009	02/23/2009	2	Modify road alignment for Access Road 56 to Construction 67.
VR #32	03/03/09	03/03/09	1	Nighttime wire removal across Newhall Ranch Road, City of Santa Clarita.
VR #33	03/09/09	03/05/2009	1	Hydrant Yard nighttime emergency helicopter repairs Monday trough Saturday.
VR#34	03/12/2009	03/12/2009	1	Work on Sunday March 15 th in order to complete the permanent transfer of the temporary shoo-fly transmission structures to the new permanent Antelope-Pardee 500 kV double- circuit transmission line, Segment 1, Section 1.
VR #35	03/21/09	03/26/09	2	New Access Road to Tower 83, Segment 2
VR #36	03/09/09	03/31/09	1	Heavy- lift helicopter Segment 1 Section 2 allows for the sky crane to begin flying at 6am for two ten days operations and to fly on one Sunday for each operation. Fly yards outside the ANF will also be used: Upper Pumpkin Yard, Hydrant and Reitano.
VR #37	03/30/09	03/31/09	1	Installation of an underground conduit near Tower 11, Section 1.
VR #38	04/06/09	04/08/09	2	Wire removal structure 27-1 to existing structure 18-3 on the Eagle-Rock Vincent Transmission Line near the Vincent substation.
VR #39	04/06/09	4/10/09	2	Guard pole relocation near hijack towers 34A and 3.
VR #40	04/14/09	04/15/09	2	Sunday work on April 19 th , April 26 th , May 3 rd , and May 10 th to take advantage of a scheduled outage.
VR #41	04/24/09	05/04/09	2	Three additional wire stringing sites between Towers 106-108.
VR #42	4/28/09	05/06/09	1	Expansion of WSS-13, Section 1.

TABLE 3
TEMPORARY EXTRA WORKSPACE (TEWS) REQUESTS
(Updated 05/06/09)

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	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 removals.
TEWS 12	01/15/09	01/15/09	1,2 and 3	400-foot by 400-foot disturbance area for the MV 88-T1A lift structure and a 100-foot radius disturbance area on the two Midway Vincent #3 structures to the north and to the south of the lift structure.
TEWS 13	01/29/09	01/29/09	2	Extra Workspace for steel placement outside of disturbance limits adjacent to tower 2 Segment 2.
TEWS 14	04/07/09	04/07/09	1	Extra Workspace for stringing between Towers 110 and 112.
TEWS 15	04/07/09	04/07/09	2	Extra Workspace required to access conductor on Sagebrush line near Tower 106.
TEWS 16	04/15/09	04/16/09	3A	Extra Workspace needed to avoid fiber optic vault along access road near Tower 2.
TEWS 17	04/15/09	04/15/09	2	Extra Workspace needed to access area near Tower 37 adjacent to Elizabeth Lake road in order to install guard pole structure in "flower pots".
TEWS 18	04/17/09	04/22/09	2	In order to complete work at Sagebrush tower 2A PAR crews need to access an existing SCE tower (SCE4) a 100 x 100-foot disturbance area is requested.
TEWS 19	04/23/09	04/24/09	2	SCE is installing a tubular steel pole (TSP) for the 66 kV line, relocating wires from wood pole to TSP and then removing wood pole.
TEWS 20	04/25/09	04/25/09	2	Between Towers 33 and 34A drive and crush on an existing access road for bucket truck (grounding tower for energized work).

NON-COMPLIANCES & INCIDENTS

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

TABLE 4
NON-COMPLIANCES, PROJECT MEMORANDA, AND OTHER INCIDENTS
 (Updated 05/06/09)

Type	Date	Location	Description
Project Memorandum	03/25/08	Segment 1, Section 1	Deposition of soil into drainage at Soil Disposal site.
Project Memorandum	04/18/08	Segment 1, Section 1	Encroachment into Environmentally sensitive area during stringing operations.
Project Memorandum	04/30/08	Segment 1, yards	No clearance surveys of construction yards being conducted during bird nesting season.
Project Memorandum	05/21/08	Segment 1, Section 1	Inaccurate and incomplete resource maps.
Project Memorandum	08/06/08	Segment 1, Section 3	Completion of 12 kV wreck-out of 21 poles outside of disturbance area prior to Variance approval.
Incident	09/10/08	Segment 1, Section 3	Spill resulting from overturned cement truck. Incident report documenting spill amounts submitted on October 15.
Incident	10/13/08	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	10/15/08	Segment 2	66 kV crews delivered materials to the right-of-way before disturbance areas had been flagged and biologically surveyed.
Incident	10/16/08	Segment 1, Section 3	Spill resulting from a broken hydraulic hose. Incident report pending.
Incident	11/06/08	Segment 1, Section 3	12 kV underground crews began work before disturbance areas had been flagged and biologically surveyed.
Incident	11/18/08	Segment 1, Section 2	No topsoil was separated prior to grading near NC 33.
Non-Compliance	12/01/08	Segment 1	Construction vehicles crossing through flowing waters of Bouquet Creek to access the Pumpkin Yard.
Non-Compliance	12/03/08	Segment 2	SCE 66 kV crews working without notifying Environmental staff and no disturbance areas had been flagged.
Incident	12/17/08	Segment 1, Pumpkin Yard	Jet fuel, diesel, and other hydrocarbon spill resulting from helicopter accident. Incident report submitted December 29.
Project Memorandum	01/23/09	Segment 2	Heavy equipment causing ground disturbance within Environmentally Sensitive Area (ESA).
Incident	01/27/2009	Segment 2 Avenue I Yard	Diesel spill approximately 15 to 20 gallons from a subcontractor diesel truck. 30-40 tons of contaminated soil was removed.
Incident	02/02/09	Segment 2	Five gallon spill of antifreeze on Access Road 55.
Incident	02/04/09	Segment 2	Less than one pint of diesel fuel was spilled on the access road to Structure 47; approximately five gallons of contaminated soil was collected.
Incident	02/04/09	Segment 2	One quart hydraulic fluid spilled at Structure 22 when backhoe tipped over.
Incident	02/05/09	Segment 1, Section 2	Hydrant Yard - excavator for steel disassembly blew out a hydraulic line spilling one quart of fluid.
Incident	02/05/09	Segment 2	Diesel theft from Terex crane at Structure 5 resulted in ½ to 3 gallon spill.

Type	Date	Location	Description
Incident	02/11/09	Segment 2	Unknown hydrocarbon soil stain approximately 1-square feet all contaminated materials removed near Const 24.
Incident	03/06/09	Mojave Yard	Hydrocarbon staining from leaking equipment in storage yard.
Incident	03/09/09	Segment 1	1 cup hydraulic spill at Lower Pumpkin Yard, Segment 1.
Incident	03/09/09	Segment 1 Section 2	¼ cup hydraulic spill at Tower 60, Section 2 ANF.
Incident	03/09/09	Segment 1 Section 2	Form oil staining on ground near Towers 33, 34, and 36 on Section 2, ANF.
Incident	03/10/09	Segment 2	Oil staining from equipment within Avenue J yard.
Incident	03/12/09	Segment 1 Section 2	Micro-trash observed in several steel assembly areas on Section 2, ANF.
Incident	03/13/09	Segment 2	Transmission oil spill at Tower 43, Segment 2.
Project Memorandum	03/19/09	Segment 3A	Road staking crews entered an Environmentally Sensitive Area while flagging new access roads.
Incident	3/24/09	Segment 2	Diesel spill at Tower 71.
Incident	3/26/09	Section 1, Segment 1	Wire removal next to active scrub jay nest with no biological monitors present.
Incident	3/30/09	Ave I yard	Spill of ¼ cup hydraulic fluid as result of equipment theft.
Incident	3/31/09	Section 1, Segment 1	¼ cup hydraulic spill at Shoofly 4 in Section 1.
Incident	3/31/09	Section 2, Segment 1	15-gallon hydraulic spill at AHS 19 resulting from broken line on cement truck.
Incident	4/01/09	Segment 2	1-gallon diesel spill at snub site near Tower 35.
Incident	4/09/09	Segment 3A	Grading along access road proposed as no improvement.
Incident	4/10/09	Segment 1, Section 2	Engine oil staining at AHS 10 on the ANF.
Incident	4/10/09	Segment 2	5-gallon fuel spill from an overturned truck near Towers 66-67.
Incident	4/18/09	Segment 2	3-gallon fuel spill near Tower 37.
Incident	4/22/09	Segment 1, Section 3	8-10 gallons of hydraulic fuel near Tower 110.
Incident	4/23/09	Segment 2	1-quart diesel spill near Tower 36.
Incident	4/24/09	Segment 2	3-gallon hydraulic spill near Tower 63.
Incident	4/25/09	Hydrant Yard	Nest removal conducted without authorization from USFWS and CDFG.

PROJECT PHOTOGRAPHS



Figure 1: Nest boxed used to relocate house finch nests containing eggs on Segment 2. Note: relocated nest failed.



Figure 2: Gaps between the ground surface and plywood covers in desert tortoise areas of Segment 3A.



Figure 3: Grading and brush clearing of the new Windhub Substation.



Figure 4: Dust from the Windhub Substation site blowing across Oak Creek Road.