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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:** July 1, 2009  
**Subject:** Weekly Reports 74 and 75: June 6 to June 20, 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, including the Windhub Substation. 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 8<sup>th</sup>. 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. All new 500 kV lattice steel towers have been erected in Section 1.



2. Final wire installation work along the new 500 kV double circuit towers has been completed between the Pardee Substation and Structure 25. 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. Conductor removal on the 220 kV wreck-out line has been completed.
4. During the subject period SCE and United Power Company (UPC) crews have completed the wreck-out of the 220 kV structures near Towers 2, 3, 4, 5, 7, 8, 10, 11, 12, 14, and 15 (see Figure 1).
5. Road recontouring of the temporary Shoofly access roads has been completed. SCE plans to submit an addendum to the EIR/EIS to allow for some permanent access and spur roads to be left in place for operation and maintenance of the new 500 kV line. Revegetation of the temporary disturbance areas is planned for later this year. A site tour and final walk-through of the Shoofly roads is planned with SCE, Aspen, and Burns and McDonnell.

**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. The western kingbird nest located at the wreck-out structure 28/4 near Tower 7 containing two eggs was found empty and was removed.
3. One Temporary Extra Workspace request was approved by the CPUC EM for use of a bike path for crane access to the area of Tower 9. The approval from the City of Santa Clarita was provided prior to use.
4. 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 27<sup>th</sup>. 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 12<sup>th</sup>. 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 had been authorized by the ANF. PAL levels for the subject period are summarized below:

Date	Project Activity Level (PAL)	Activity Allowed/Conducted
Sunday, June 7	A	Work is allowed.
Monday, June 8	C	Work is allowed.
Tuesday, June 9	B	Work is allowed
Wednesday, June 10	A	Work is allowed
Thursday, June 11	A	Work is allowed
Friday, June 12	A	Work is allowed
Saturday, June 13	A	Work is allowed
Sunday, June 14	No PAL Level	No work was performed
Monday, June 15	B	Work is allowed
Tuesday, June 16	A	Work is allowed
Wednesday, June 17	C	Work is allowed
Thursday, June 18	D	Work is allowed
Friday, June 19	D	Work is allowed
Saturday, June 20	D	Work is allowed

Construction activities during the subject period consisted of the following:

1. The Sky Crane placement of tower sections in the ANF was completed on June 10<sup>th</sup>, after several days of delays due to weather (fog).
2. PAR crews began wire conductor installation (hanging travelers, wire stringing, clipping in, and sagging) between Towers 26C and Tower 33.
3. During the wire conductor installation, a conductor splicing method using implosives was used due to the inaccessibility of adequate splicing locations between towers on the ANF. The implosive splicing took place at the wire stringing site near Tower 33 for each phase of the conductor (see Figure 2).
4. SCE's biological subcontractors continued to remove weedy material from stockpiled topsoil piles on the ANF.

## **Environmental Compliance**

1. PAR and the ANF Permit Administrator met to discuss fire restrictions during stringing operations on the ANF.
2. A Level 1 change was approved by the ANF for use of LZ 34 for wire pulling operations. Conditions for use include no grading of the area or mowing of existing vegetation in the road center leading to the site.
3. SCE's environmental subcontractor reported that the two active nests with eggs and the two active nests with chicks in Tower 54 were founded empty (most likely predated) and were removed.
4. Towers 39, 41, 43, and 49 have active nests present and therefore, construction buffer restrictions still apply.
5. USFWS has instructed SCE to report all active bird nest removals/relocations to their law enforcement office for documentation purposes.
6. 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, especially in tower areas where back-bolting is occurring.
7. On May 1<sup>st</sup>, a project helicopter had to make an emergency landing on the bank of the Bouquet Reservoir. The helicopter landed partially in the water and LADWP was immediately notified. LADWP and PAR Environmental Staff reported that there was no spill of hazardous materials on site. The ANF Permit Administrator was also notified of the emergency landing. The CPUC Project Manager has requested an incident report, but none has been provided to date.
8. An inspection of the newly constructed roads on the ANF was previously 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.
9. 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.

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 25<sup>th</sup>. 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 2<sup>nd</sup>.

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. All towers in Section 3 have been assembled. Wire stringing, clipping in, sleeving, and sagging has been completed between Towers 92 and 113, just outside of the Antelope Substation.
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**

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 30<sup>th</sup>. 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. PAR crews have completed 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.
2. PAR construction crews continued preparation work around the remaining hijack areas between Towers 76-80 (see Figure 3).

3. All access roads for the 500 kV towers have been completed in Segment 2.
4. Drilling and pouring of foundations for all tower sites except Tower 115 have been completed. Tower 115 is on hold due the close proximity of active nests in the area.
5. Steel assembly continued along all areas of Segment 2 Towers 0-2, 9-10, 16, 36-39, 41, 45-46, 49-52, 55, 57, 59-61, 64, 67-70, 102, and 110.
6. PAR crews have completed steel assembly at Towers 3-8, 11-15, 17-34, 34A, 35, 40, 42-44, 47, 48, 53, 56, 58, 63, 103, 105-109, VSF1-VSF5.
7. Wire conductor installation (wire stringing, clipping in, and sagging) has been completed between Towers 23-34A, and 105-107. Wire stringing between Towers 2-20 is planned for the second week in July.
8. PAR construction crews started working on reveals and expanding the crane pads at Towers 21, 24, 25, 76, 78, 79, 91, and 92.

#### **Environmental Compliance:**

1. The red-tailed hawk nest containing young in existing Tower 112/6 near the Vincent Substation has fledged. This tower also contains a western kingbird nest. Also in the near vicinity of Tower 115 the two active California towhees have fledged and the 13 non-active song bird nests will be left in place. Tower 115 has been cleared for construction activities.
2. Construction activities surrounding Towers 117 and 118 remain on hold due to active bird nests nearby.
3. The two western kingbird nests and one house finch nest that were founded in Tower 34 have all fledged and the nests have been removed. Also the California towhee near Tower 51, and the raven nests on Towers 15, 19, 76, and 78 have fledged. The raven nest in the billboard near Tower 111 has failed and is no longer active.
4. Other new nests reported in Segment 2 during the subject period include an active red-tailed hawk between Towers 89 and 91, and an active raven nest on an existing tower near Tower 84. Buffers have been established around these nests and no work will proceed within these buffers without consultation with CDFG.
5. As conditioned in the NTP, all sensitive resources are being flagged for avoidance and verified by the CPUC EM prior to construction.
6. Juniper and Joshua trees impacted by construction are being tracked by Burns and McDonnell environmental staff for future mitigation.

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. 42 Towers of Segment 3A have not been released for construction because of real estate acquisition, biological resources, cultural resource capping requirements, or road changes. 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.
2. Foundation crews have completed foundation installation at all available tower locations in Segment 3A. Once the remaining 42 tower sites are available, foundation installation will resume.
3. During the subject period, PAR crews completed assembly of lattice Towers 24 and 25 (see Figure 4).
4. Assembly of the Tubular Steel Poles continued. PAR requested permission from the CDFG to go in and assemble Tower 33 (a monopole in four parts) outside one of the Swainson's hawk nest buffers; however, the access road is in the southern portion of the established buffer. Permission was granted by CDFG for construction access through this area.
5. Tortoise-proof fencing was replaced surrounding tower sites 9-11 because the original material was not strong enough to withstand the windy conditions. The material used for the tortoise fencing was approved by USFWS and CDFG. The agencies recommended that the fences be regularly monitored in case animals become trapped inside or become entangled in the fencing itself.
6. Grading at the Windhub Substation site continued. The well for a permanent water source is being installed onsite. Until the well is completed and functional, the contractor has access to water at two alternate sites along Tehachapi Willow Springs Road.
7. SCE has discontinued use of the water storage tanks along Oak Creek. A riparian bird survey conducted in this area identified the presence of Willow flycatchers in the immediate area. SCE will submit a plan for the removal of the water tanks to the CDFG and the CPUC.
8. SCE crews completed the installation of the 12 kV distribution line to provide service to the Windhub Substation. The permanent line was approved by the CPUC as part of an addendum to the EIR.

### **Environmental Compliance:**

1. In accordance with project mitigation measures, half-mile construction buffers have been established around five active Swainson's hawk nests in the area of Segment 3A.
2. A lesser nighthawk nest was founded near Tower 17 with two eggs.
3. 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 has also been 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
4. SCE reported a second unanticipated cultural resource near Tower 23. A previously unknown find was also reported near Tower 53. Reports documenting both areas are expected to be submitted to the CPUC.
5. Dust at the Windhub Substation site has continued to be a problem and has affected areas outside of the fence. SCE has installed k-rail and plywood along the fence closest to the tortoise burrow to prevent dirt from covering the burrow.
6. 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.
7. 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 capping is expected to occur.

No Non-Compliance Reports were issued during the subject period for work being conducted within Segment 3A or the Windhub substation. 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.

### **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 07/01/09)

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 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 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.
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.
#20	03/20/09	04/02/09	2	R-8 marshalling yard, City of Palmdale.
CPUC Addendum	03/12/09	4/23/09	3	Addition of a water well at Windhub Substation

NTP #/ Permit	Date Requested	Date Issued	Segment #	Description
CPUC Addendum & NTP	4/15/09	4/28/09	3B	Modifications to Wilderness structure in Segment 3B
CPUC Addendum	04/24/09	05/22/09	3B	Change towers 78 and 79 from tubular steel poles to lattice steel towers.
#21	06/03/09	06/04/09	3	12 kV distribution line to Windhub Substation.
CPUC Addendum	06/26/09	Under review	2	Reclassify AR 12B and AR 62 to permanent.
<b>ANF PERMITTING</b>				
	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 07/01/09)

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.

Variance Request	Date Requested	Date Issued	Segment #	Description
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
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 <sup>nd</sup> 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.

Variance Request	Date Requested	Date Issued	Segment #	Description
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 through Saturday.
VR#34	03/12/2009	03/12/2009	1	Work on Sunday March 15 <sup>th</sup> in order to complete the permanent transfer of the temporary Shoofly 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 #36 MOD	05/21/09	05/29/09	1	5:00 a.m. crew deployment to Section 2 during Sky Crane operations starting June 1.
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 <sup>th</sup> , April 26 <sup>th</sup> , May 3 <sup>rd</sup> , and May 10 <sup>th</sup> to take advantage of a scheduled outage.
VR #40 MOD	04/14/09	04/15/09 (verbal)	2	Sunday work on May 17 <sup>th</sup> and 24 <sup>th</sup> .
VR #41	04/24/09	05/04/09	2	Three additional wire stringing sites between Towers 106-108.
VR #42	04/28/09	05/06/09	1	Expansion of WSS-13, Section 1.
VR #43	05/01/09	05/08/09	3A	Changes to cultural resource mitigation and changes to access roads to avoid sites.
VR #44	05/15/09	05/22/09	3	Waive ≤15 mph speed restriction for site preparation at Windhub Substation.
VR #45	4/28/09	ANF: 05/20/09 CPUC: 05/22/09	1	Use of alternate access near Bouquet Reservoir to access WSS 23.
VR #46	06/02/09	06/18/09	3A	New construction access to towers to avoid LADWP right-of-way.
VR #47	05/28/09	06/17/09 Pond Only	3	Installation and use of pond at Windhub Substation and two water tanks on private property.
VR #48	06/26/09	Under review	3A	Realignment of existing access road to Towers 3A-2 and 3A-3 to avoid AT&T utility vault.

**TABLE 3**  
**TEMPORARY EXTRA WORKSPACE (TEWS) REQUESTS**  
(Updated 07/01/09)

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-foot-by-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).
TEWS 21	05/28/09	05/28/09	1	Additional workspace for wire pulls near Tower 113.
TEWS 22	05/28/09	05/28/09	1	Additional workspace for tower wreck-out, Section 1.

TEWS Request	Date Requested	Date Approved	Segment #	Description
TEWS 23	06/02/09	06/02/09	3	Water source for Windhub Substation, hydrant along Tehachapi Willow Springs Road.
TEWS 24	06/03/09	06/03/09	2	Extra workspace for equipment staging near Tower 106.
TEWS 25	06/09/09	06/09/09	3	Additional water source for Windhub Substation, hydrant along Tehachapi Willow Springs Road.
TEWS 26	06/18/09	06/18/09	1	Bike trail access to wreck-out 28/2 near Tower 9.

## 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 07/01/09)

Type	Date	Location	Description
Project Memorandum #1	03/25/08	Segment 1, Section 1	Deposition of soil into drainage at Soil Disposal site.
Project Memorandum #2	04/18/08	Segment 1, Section 1	Encroachment into Environmentally sensitive area during stringing operations.
Project Memorandum #3	04/30/08	Segment 1, yards	No clearance surveys of construction yards being conducted during bird nesting season.
Project Memorandum #4	05/21/08	Segment 1, Section 1	Inaccurate and incomplete resource maps.
Project Memorandum #5	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 #1	12/01/08	Segment 1	Construction vehicles crossing through flowing waters of Bouquet Creek to access the Pumpkin Yard.
Non-Compliance #2	12/03/08	Segment 2	SCE 66 kV crews working without notifying Environmental staff and no disturbance areas had been flagged.

Type	Date	Location	Description
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 #6	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.
Incident	02/11/09	Segment 2	Unknown hydrocarbon soil stain approximately 1 square foot 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 #7	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.

Type	Date	Location	Description
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.
Incident	4/27/09	Segment 2	2 cup Hydraulic spill from ruptured hose near Tower 107.
Incident	4/27/09	Segment 2	3-gallon hydraulic spill from ruptured hose near Tower 63.
Incident	4/28/09	Hydrant Yard	3-quart hydraulic spill from forklift in Hydrant Yard.
Incident	5/01/09	Section 2, Segment 1	A project helicopter had to make an emergency landing on the bank of the Bouquet Reservoir. <b>Incident report pending.</b>
Incident	5/02/09	Pottery Yard	2-3 ounce hydraulic spill at Pottery Yard.
Non-Compliance #3	5/06/09	Segment 3A	Work was allowed to occur within 200 feet of an active Swainson's Hawk nest near Tower 31. CDFG and CPUC were not immediately notified of the nest.
Incident	5/11/09	Racetrack Yard	1 cup antifreeze spill.
Incident	5/19/09	Segment 3A	2-gallon hydraulic spill at Tower 42.
Non-Compliance #4	5/22/09	Segment 3A	SCE did not provide agency reduction in resource buffer at Tower 80 and the nest was not monitored during construction.
Non-Compliance #5	5/22/09	Windhub Substation	Several activities occurred without Variance approval, including night work, placement of water tanks on private property, construction of a water storage pond, and exceeding the 15 mph speed limit.
Incident	5/27/09	Segment 1, Section 3	½ cup hydraulic fluid spill near Tower 112.
Incident	5/26/09	Windhub Substation	10-gallons of hydraulic fluid leaking from equipment.
Incident	5/28/09	Segment 2	Hydraulic fluid spill near Tower 75.
Incident	5/28/09	Segment 2	¼ cup hydraulic fluid spill near Tower 65.
Incident	6/11/09	Segment 2	Two small soil stains at the guard pole location between Towers 106 and 107. Hydraulic stain less than one cup and a diesel stain less than one gallon.
Incident	6/15/09	Mechanics Yard	Approximately one quart of hydraulic fluid/motor oil from rewind machine 3003
Incident	6/16/09	Mojave Yard	Less than 2 cups of hydraulic fluid spill underneath rewind machine 3013
Incident	6/17/09	Segment 2	Hydraulic fluid spill less than ¼ cup from crane BE9017 Tower 35.
Incident	6/17/09	Segment 2	¼ cup hydraulic fluid spill from forklift JREFL 534 near Tower 35.
Incident	6/22/09	Hydrant Yard	Two quarts hydraulic fluid spill from cement company truck.



## PROJECT PHOTOGRAPHS



**Figure 1:** Wreck-out of the 220 kV structures near Tower 5 by SCE and UPC crews, Segment 1, Section 1.



**Figure 2:** Wire splicing using implosive sleeves near Tower 33 in the ANF, Segment 1, Section 2.



**Figure 3:** Foundation reveals and crane pad extension prior to tower assembly, Segment 2.



**Figure 4:** Assembly of lattice steel towers at Structure 25, Segment 3A.