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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:** August 26, 2009

**Subject:** Weekly Report 84; August 16 to August 22, 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 and Shoofly roadways have been recontoured. 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. The modification of existing Tower M24T-1 continued during the subject week. The modification includes raising the tower height and digging new foundations to accommodate the larger tower.
- 2. All new 500 kV lattice steel towers have been erected in Section 1; however, replacement steel had been ordered for parts of Tower 26A (bridged section) which was received and set during the subject week.

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- 3. 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 26c and 33 (on the ANF) has been completed. Wire installation between Towers 25 and 26c has yet to be scheduled.
- 4. Road recontouring of the temporary Shoofly access roads has been completed. SCE has submitted 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 with Burns and McDonnell was conducted on August 5<sup>th</sup> to look at the access roads requested as permanent. The EIR/EIS Addendum is currently under review.

#### **Environmental Compliance:**

No Non-Compliance Reports or Project Memoranda were issued during the subject week for Segment 1 construction activities. 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, 2008. 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, August 16	NO PAL LEVEL	No Sunday work scheduled
Monday, August 17	EV	Work is allowed with restrictions
Tuesday, August 18	Е	Work is allowed with restrictions
Wednesday, August 19	Е	Work is allowed with restrictions
Thursday, August 20	Е	Work is allowed with restrictions
Friday, August 121	EV	Work is allowed with restrictions
Saturday, August 22	EV	Work is allowed with restrictions

Construction activities during the subject period consisted of the following:

- 1. PAR crews completed conductor installation between Towers 84 and 92, the last portion of the project on the ANF requiring stringing.
- 2. SCE's biological subcontractors continued to remove weedy material from stockpiled topsoil piles on the ANF.
- 3. Colwell crews continued the recontouring of SR 41 on the ANF.

# **Environmental Compliance**

- 1. An ANF representative noted that vehicles were parked on an old spur road near Tower 55. This spur road was not approved for project access. The ANF representative could not identify the vehicles, but project vehicles had been seen parked on this road a few months ago. The ANF will decide what level of restoration will be required by SCE for this impact.
- 2. The ANF representative noted that there was concrete cuttings and other microtrash still present at several tower sites and wreck-out tower sites on the ANF. In addition, at least one tower foundation was reported to still be in place on the ANF. PAR and Burns and McDonnell quality control plan includes travel to each work area and remove the debris. A final site inspection of all tower areas will take place by ANF and/or the CPUC EM.
- 3. 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, 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 Non-Compliance Reports or Project Memoranda were issued during the subject week for Segment 1 construction activities. Non-Compliance activities for the project to date are summarized in Table 4.

### Agency Representatives during Construction (other than CPUC EMs):

Janet Nickerman and Katie VinZant (ANF)

#### 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 for the Antelope Substation expansion work have been completed. 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>.

Remaining construction activities under NTP #11 are noted below.

- 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. Stringing of Towers 84 through 92 was completed as part of the last section of the ANF (see Figure 1).
- 3. Road crews conducted road cleanup along portions of Section 3 roads.

#### **Environmental Compliance**

No Non-Compliance Reports or Project Memoranda were issued during the subject week for Segment 1 construction activities. 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. During the subject period, UPC crews continued conductor installation between Towers 36-39 (see Figure 2).
- 2. Steel assembly continued along all areas of Segment 2, including Towers 0, 46, 51, 54, 55, 65, 70, 75, 79-82, 84, 85, 92, 93, 94, and 110.
- 3. PAR crews have completed steel assembly at Towers 1-45, 47-50, 52-53, 56-64, 65A, 66-69, 71-75, 95-109, 111-115, VSF1-VSF5.
- 4. PAR crews continued recontouring at Towers 23 and 25 (see Figure 3).
- 5. Wire conductor installation (wire stringing, clipping in, and sagging) has been completed between Towers 1-35, 105-107, and VSF1-VSF5.

#### **Environmental Compliance:**

- 1. During the clearance survey for the disturbance area for the guard pole site between Towers 37 and 38, a tow-striped garter snake (California Species of Special Concern) was observed by the biological monitor in a woodrat midden in the Amargosa Creek. CDFG and the CPUC EMs were notified of the sighting. A field meeting took place with Dan Blankenship (CDFG) to see the area and to discuss avoidance of the many woodrat middens found in this area. Mr. Blankenship recommended the sighting be added to the CNDDB database.
- 2. As conditioned in the NTP, all sensitive resources are being flagged for avoidance and verified by the CPUC EM prior to construction.
- 3. Juniper and Joshua trees impacted by construction are being tracked by Burns and McDonnell environmental staff for future mitigation.

No Non-Compliance Reports or Project Memoranda were issued during the subject week for Segment 2 construction activities. Non-Compliance activities for the project to date are summarized in Table 4.

# **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. Construction activities during the subject period are summarized below.

# **Summary of Activity**

- 1. Nine towers of Segment 3A have not been released for construction because of real estate negotiations, 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. After consultation with the CDFG, Towers 29-33 were released for construction activities with restrictions after the Swainson's hawk chicks had fledged. A biological monitor must be present at all times during work activities and to monitor the juvenile birds for any signs of stress. Towers 4 and 44 were also released for construction activities.
- 3. PAR crews continued road capping of the archaeological sites in Segment 3A. Capping materials are being staged at a previously approved TEWS area (see Figure 4).
- 4. PAR crews continued assembly of lattice towers in Segment 3A.
- 5. Foundation drilling took place at Tower 58 and foundations were poured at Towers 53 and 59.
- 6. Tortoise proof fencing surrounding tower sites 9-11 and 14 is being regularly monitored for entrapped animals.
- 7. Grading at the Windhub Substation site continued. The well for a permanent water source has been completed. Use of two water sites along Tehachapi Willow Springs Road has been discontinued. A concrete-lined drain is currently under construction at the substation site to contain and divert water offsite. A modification to the drainage plan for Windhub was submitted to the CDFG and the CPUC. CDFG has concurred that the changes in the plan would not require an amended streambed alteration agreement.
- 8. The water pond located at the Windhub Substation has been removed and further grading of the area has begun.
- 9. SCE has discontinued use of the water storage tanks along Oak Creek. A riparian bird survey conducted in this area identified possible southwestern willow flycatchers in the immediate area. SCE will submit a plan for the removal of the water tanks to the CDFG and the CPUC, but this is not expected to occur until after the bird nesting season is complete.

### **Environmental Compliance**:

- 1. After consultation with CDFG, PAR crews were allowed to access Tower 46 by an alternate route to continue work in the tower disturbance area, as long as a biologist is present at all times to monitor the lesser nighthawk's nesting behavior.
- 2. 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
- 3. SCE reported a second unanticipated cultural resource near Tower 23. A previously unknown find was also reported near Tower 53. Reports documenting both areas have been submitted to the CPUC. The new cultural resources will both be avoided by construction activities.

- 4. 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.
- 5. 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.

No Non-Compliance Reports or Project Memoranda were issued during the subject week for Segment 3A/Windhub construction activities. Non-Compliance activities for the project to date are summarized in Table 4.

# 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 Transmission Project, Segments 1, 2, and 3, to date.

# TABLE 1 CPUC NTPS & ANF PERMITTING

(Updated 08/26/09)

NTP #/	Date	Date		lated 08/26/09)
Permit	Requested	Issued	Segment #	Description
	PUC 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

NTP #/ Permit	Date Requested	Date Issued	Segment #	Description
#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
CPUC Addendum & NTP #21	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.
#22	06/03/09	06/04/09	3	12 kV distribution line to Windhub Substation.
CPUC Addendum	06/26/09	08/13/09	2	Reclassify AR 12B and AR 62 to permanent.
#23	07/29/09	08/13/09	3B	Use of the Oaks Creek Energy laydown yard along Willow Springs Road.
CPUC Addendum	08/04/09	Under review	1	Reclassify several roads in Segment 1 as permanent.
CPUC Addendum	08/20/09	Under review	3A	Reclassify several roads in Segment 3A as permanent.
			ANF	PERMTTING
	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 08/26/09)

			(Updated	1 08/26/09)
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		submitted as 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 <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.
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 <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.

Variance Request	Date Requested	Date Issued	Segment #	Description
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	07/01/09	3A	Realignment of existing access road to Towers 3A-2 and 3A-3 to avoid AT&T utility vault.
VR #49	07/17/09	07/22/09	2	Additional space for wire splicing near Towers 6-8, and 15-16.
VR #50	07/21/09	07/23/09	2	Sunday work to conduct wire stringing.
VR #51	07/23/09	07/28/09	3A	Reduction of the 60-day requirement to securing agreements prior to construction (MM Ag-3).
VR #52	07/27/09	07/28/09	3A	Change in proposed access to Tower 43, from overland travel to vegetation removal.
VR #53	07/29/09	07/30/09	1	Modification to existing tower M24-T1 on Section 1, so that an excessive height differential between Const 25 and M24-T1 can be corrected.
VR #54	08/13/09	08/25/09	2	Additional Wire Stringing and Guard Pole sites, and extended work hours.

# TABLE 3 TEMPORARY EXTRA WORKSPACE (TEWS) REQUESTS (Updated 08/26/09)

TOTAL C	(Opdated 08/20/09)						
TEWS Request	Date Requested	Date Approved	Segment #	Description			
	•		π	1			
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 Request	Date Requested	Date Approved	Segment #	Description
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 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.
TEWS 27	07/16/09	07/20/09	3	Extra workspace for stock piling capping material for cultural sites.
TEWS 28	08/19/09	08/20/09	2	Use of existing dirt roads near Towers 108 and 112 to access guard pole sites Segment 2.

# 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 08/26/09)

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.

Type	Date	Location	Description
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.
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	1/4 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.

Type	Date	Location	Description
Incident	03/10/09	Segment 2	Oil staining from equipment within Avenue J yard.
Incident	03/12/09	Segment 1 Section 2	Microtrash 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	<sup>1</sup> / <sub>4</sub> 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.
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. Incident report 7/09/09.
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	I 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.

Type	Date	Location	Description
Incident	5/28/09	Segment 2	Hydraulic fluid spill near Tower 75.
Incident	5/28/09	Segment 2	<sup>1</sup> / <sub>4</sub> 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 ½ cup from crane BE9017 Tower 35.
Incident	6/17/09	Segment 2	<sup>1</sup> / <sub>4</sub> cup hydraulic fluid spill from forklift JREFL 534 near Tower 35.
Incident	6/22/09	Hydrant Yard	Two quarts hydraulic fluid spill from equipment.
Incident	6/23/09	Rodeo Yard	½ cup hydraulic fluid from ws-719 wire truck.
Incident	6/23/09	Segment 2	Near Tower 37 approximately 3-5 gallons of diesel fuel unknown source.
Incident	6/25/09	Segment 3A	One gallon of hydraulic fluid spill at Tower 23 from crane.
Incident	6/26/09	Segment 2	Near Tower 59 one pint of hydraulic fluid from bulldozer.
Incident	6/29/09	Segment 2	Tower 59 one quart of hydraulic fluid from bulldozer.
Incident	7/02/09	Mojave Yard	A few tablespoons of hydraulic fluid from wire puller.
Incident	7/02/09	Rodeo Yard	½ to ½ cup of hydraulic fluid.
Incident	7/06/09	Segment 2	Rodeo Yard engine oil leak from wire pulling truck W5719 a few drops.
Incident	7/07/09	Segment 2	Rodeo Yard hydraulic spill ¼ to ½ cup blue trailer equipment #RT3014
Incident	7/09/09	Segment 2	<sup>3</sup> / <sub>4</sub> of a cup of unidentified fluid underneath wire truck WS250 at the Ave I Yard.
Project Memorandum #8	7/13/09	Segment 1, Section 2	Construction activities at wire stringing site 23 south of Bouquet Reservoir were initiated prior to the submittal of the 7-day biological clearance report.
Incident	7/15/09	Segment 3A	Antifreeze spill when driller radiator cap broke.
Incident	7/16/09	Segment 2	1/4 cup hydraulic fluid spill at the Ave I Yard and 1/2 of cup of hydraulic spill from the outrigger of the self loading pole hauler.
Incident	7/16/09	Segment 2	One gallon diesel fuel spill when filling up dozer near Tower 51.
Incident	7/16/09	Segment 2	Illegal dumping of engine motor oil on the ROW near Tower 12.
Incident	7/16/09	Segment 2	Approximately 3 gallons of diesel fuel near Tower 16 source unknown.
Incident	7/18/09	Windhub	One and a half cups of hydraulic fluid leak from 3 graders.
Incident	7/23/09	Mojave Yard	One quart and two cups of diesel/hydraulic spill
Incident	7/28/09	Segment 1, Section 2	A willow tree was broken during guard pole installation. No biologist was present.
Incident	7/30/09	Segment 3A	Near Tower 45 one cup diesel spills from front loader.
Project Memorandum #9	8/04/09	All Segments	SCE not submitting weekly reports in a timely manner.
Incident	8/07/09	Segment 2	Diesel fuel spill near Tower 22 a few drops.
Incident	8/07/09	Segment 2	Engine oil less than ½ a cup from a wire puller between Towers 22 and 23.

Type	Date	Location	Description
Incident	8/07/09	Segment 2	Hydraulic fluid spill Tower 10 less than ½ cup.
Incident	8/07/08	Segment 2	Hydraulic fluid spill near Tower 22 1 to 2 quarts.
Incident	8/07/09	Segment 2	Hydraulic fluid spill Tower 16 approximately 3 cups.
Incident	8/10/09	Segment 2	Hydraulic fluid less than one quart from a National Crane Series 1800.
Incident	8/11/09	Segment 2	Near Tower 2 one quart hydraulic fluid from the boon truck.
Incident	8/12/09	Windhub Substation	Hydraulic fluid approximately 1/8 cup from bucket truck.
Incident	8/25/09	Segment 2	15 to 20 gallons of hydraulic fluid from a crane truck JRETC545 between Towers 37 and 38.

# PROJECT PHOTOGRAPHS



**Figure 1:** Last section of wire stringing installation on Segment 1, Section 3.



**Figure 2:** Conductor installation between Towers 36 to 39, Segment 2.



**Figure 3:** Recontouring at Tower 23, Segment 2.



**Figure 4:** Stockpiling of capping materials, Segment 3A.