



30423 Canwood Street, Suite 215, Agoura Hills, CA 91301-4316
Tel. 818-597-3407, Fax 818-597-8001, www.aspeneg.com

PROJECT MEMORANDUM
ANTELOPE TRANSMISSION PROJECT, SEGMENTS 1, 2 AND 3A

To: John Boccio, Project Manager, CPUC
From: Vida Strong, Aspen Project Manager
Date: February 15, 2010
Subject: Weekly Reports 106 and 107 — January 24 to February 6, 2010

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, work continued under Notices to Proceed (NTP) #7 and #11 for restoration of Section 1 and Section 3, respectively. In addition, restoration activities were conducted in accordance with NTP #18 and the Special Use Permit (SUP) for construction of Section 2, Angeles National Forest. Approved Segment 1 construction yards have been or are currently being dismantled. Segment 1 was energized on December 2nd, 2009.

SECTION 1

CPUC/Aspen Environmental Monitors (EM): Jenny Slaughter and Arturo Ruelas.

Summary of Activity:

1. Energization of the Antelope-Pardee Transmission Line occurred on December 2nd.
2. A site visit with personnel from SCE, PAR, Burns & MacDonnell and Aspen took place at Towers 3, 9, and 22 in order to address some erosion concerns developing at these and other tower locations throughout Section 1.
3. PAR's road crew mobilized equipment to Tower 9 in order to stabilize the slope damaged by erosion and to redirect storm water runoff from the pad (see Figure 1).
4. Hydroseeding was completed in project disturbance areas for erosion control. The hydroseeding is not part of revegetation efforts, rather sterile seed mixes are being used to stabilize the slopes. Revegetation of the project disturbance areas is expected to take place in early 2010.



5. Revegetation crews during the subject period conducted weed abatement (herbicide application and removal of weeds) at Guard Pole Structure 21, Towers 12-28, Shoofly poles 4, 6, 7, 10, 11, and 18, Wire Stringing 6, and 66 kV Tower removal sites 27-2 to 27-5.

Environmental Compliance:

1. A site visit with Los Angeles County was conducted on October 26. County recommendations included jute netting on exposed slopes and recontoured roads, and reseeding in a timely manner to prevent erosion. Erosion control measures have been reinstalled and will continue to be monitored for success. Another site visit with Los Angeles County is planned once erosion control measures are in place.
2. SCE's drainage engineer will conduct a field visit to Tower 9 in order to evaluate the impacted area and determine an alternative for a permanent drainage system that will not discharge storm water directly into the detention basin next to a residential subdivision.

No Non-Compliance Reports or Project Memoranda were issued during the subject week for Section 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: Katie Van Zint

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 took place between November 12, 2008 and November 24, 2009.

Activities during the subject period consisted of the following:

1. SCE's restoration contractor continued weed abatement efforts on disturbance areas to prepare for reseeding. Seeding of impacted areas is being completed using an imprinting method. In areas where imprinting is not feasible, on steep slopes or tower locations, hand seeding and hydroseeding is taking place.
2. SCE restoration contractor has finished the broadcasting of *Calichortus sp.* (Mariposa Lily) at Towers 70 and 71.
3. Energization of the Antelope-Pardee Transmission Line occurred on December 2nd.

4. During the subject period, a site visit to Wire Stringing Site (WSS) 26 near Tower 83 with representatives from SCE, PAR, Burns & MacDonnell, and Aspen took place in order to discuss and address some of the concerns of the ANF biologist regarding the erosion problems developing at this location.

Environmental Compliance

1. ANF representatives noted erosion-caused rutting at WSS 26. SCE and the ANF hydrologist are looking into how to address this erosion before the next rain event.
2. Operation and maintenance of the Section 2 line will be conducted in accordance with the ANF-approved Operation & Maintenance Plan. This Plan is currently under ANF review.

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

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, 2008. 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, 2008.

Current activities under NTP #11 are noted below.

1. Energization of the Antelope-Pardee Transmission Line occurred on December 2nd
2. Hydroseeding of project disturbance areas is underway to assist in erosion control.

Environmental Compliance

No Non-Compliance Reports or Project Memoranda were issued during the subject week for Section 3 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, 2008. 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. Segment 2 construction activities have been completed and the following restoration activities are underway:

1. Segment 2 was energized on December 17th.
2. SCE's contractor installed fiber in previously installed underground conduits at the north hijack. Fiber crews were unable to access the middle and north hijacks due to the road conditions after recent rain events, and the fiber will be installed once the road conditions improve.
3. During the subject period, a post-construction field tour took place throughout Segment 2 with representatives from SCE, PAR, Burns & MacDonnell, and Aspen. A checklist was prepared and used in order identified any outstanding issues remaining at each tower location, stringing site and access roads after the construction crews have left the area. The CPUC/Aspen Environmental Monitor noticed that some of the biological resources flagging tape had not been taken down in the area of tower locations 29-36 and that pruning to damaged junipers had not been completed.
4. The post-construction tour identified several tower locations in which erosion problems are developing due to the recent rain events. Some of the problems observed are rilling, slumping, and incising of tower slopes and pads. Towers 17, 18, 19, 20-37, 39, 40-45, 48-49, 51-59, 60-68, 70-80, 83-85, 88-89, 91-92, and 94 have one or two of these erosion problems present (see Figures 2 and 3).
5. Project biologists continued the close up tasks (removing stakes and flagging, taking photographs of each tower location, access roads and wire stringing sites) and measuring the disturbance areas and roads throughout Segment 2.

Environmental Compliance:

1. Hydroseeding for erosion control has been completed throughout Segment 2. Revegetation is planned for the fall of 2010.
2. SCE submitted a plan for the stabilization, recontouring, and vegetation/construction debris removal and road capping for Tower 34A as conditioned in Variance #64. This plan was approved and the final restoration/recontouring work has yet to be scheduled. .

No Non-Compliance Reports were issued 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, 2008. Activities during the subject period are summarized below.

Summary of Activity

1. PAR crews have completed all tower assembly and conductor installation in Segment 3A.
2. PAR foundation crews completed clean up operations throughout Segment 3A.
3. Tortoise proof fencing surrounding tower sites 1 and 7-14 has been removed.
4. A final walk down tour with representatives from SCE, PAR, Burns & MacDonnell, and Aspen took place during the subject period. All tower locations, stringing sites, and access roads were inspected to make sure that all construction trash/debris, flagging stakes and tape had been removed. Also, all potential areas that needed to be ripped for decompaction were evaluated.
5. During the final walk down tour, it was observed that the overland travel route used to access Tower 43 (Bean Springs ESA) has been used by off highway vehicles (OHV)) leaving deep ruts and impacting the Environmentally Sensitive Area (see Figure 4). SCE is looking into ways to protect this ESA and to limit OHV use in this area.
6. The CPUC/Aspen Environmental Monitor inspected the Mojave, Racetrack, and Mechanic's Marshalling Yards as they were being closed down.
7. Grading at the Windhub Substation site has been completed. Foundation work for the control room and rack assembly continued. Assembly and stringing of the temporary Windhub bypass structures was completed.
8. Some channel incision has occurred immediately downstream of the rip-rapped stream channel located at the southeast corner of the substation.

Environmental Compliance:

1. SCE is working to develop a solution for the channel incision that occurred immediately downstream of the rip-rapped stream channel at the substation site. Once a plan is developed, it will be submitted to the CPUC.

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 02/15/2010)

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.

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.
#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	09/08/09	1	Reclassify several roads in Segment 1 as permanent.
CPUC Addendum	08/20/09	09/08/09	3A	Reclassify several roads in Segment 3A as permanent.
#24	10/07/09	10/22/09	1	Relocation of 66 kV lines for the Antelope Substation expansion.
#25	11/20/09	12/02/09	3	Expansion of Windhub substation from 220 kV to 500 kV.
CPUC Addendum	11/06/09	12/10/09	1	Reclassify several roads for Antelope 66 kV relocation as permanent.
CPUC Addendum	11/25/09	12/10/09	1	Reclassify temporary roads on Reitano property to permanent.
#26	12/18/09	1/05/2010	1	Expansion of Antelope Substation.
CPUC Addendum	12/21/09	1/19/201	1	Permanent AR 19 and access road to Const 34A.
CPUC Addendum	12/21/09	1/19/2010	1	Permanent refueling basin at Hydrant Yard.
#27	12/23/09	1/05/2010	3B	Oak Peak Communication Site
CPUC Addendum	01/25/10	2/01/2010	2	Reclassification of two temporary roads to permanent and relocation of transposition poles.
Revised CPUC Addendum	02/10/10	Under Review	2	Relocate two previously approved transposition towers from Const 110 to Const 105.
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

NTP #/ Permit	Date Requested	Date Issued	Segment #	Description
		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 02/15/2010)

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).

Variance Request	Date Requested	Date Issued	Segment #	Description
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 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 through 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 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.

Variance Request	Date Requested	Date Issued	Segment #	Description
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 th , April 26 th , May 3 rd , and May 10 th to take advantage of a scheduled outage.
VR #40 MOD	04/14/09	04/15/09 (verbal)	2	Sunday work on May 17 th and 24 th .
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	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.
VR #55	08/31/09	09/09/09	2	New wire splice sites between Tower 86-88, new wire setup site between Tower 95-96 and near Tower 113.
VR #55 Mod	11/06/09	11/09/09	2	Disturbance Area shift that was needed for conductor splicing near Const 86 and 88.
VR #56	09/10/09	09/11/09	2	Temporary relocation of the 12 kV distribution line Bootlegger, at the Vincent Substation.

Variance Request	Date Requested	Date Issued	Segment #	Description
VR #56 Mod	11/06/09	11/09/09	2	Leave the underground bypass in place for future anticipated construction related to TRTP. Add access road covered in previously approved TEWS.
VR #57	09/15/09	09/18/09	3A	Temporary transmission line bypass and access road at Windhub Substation.
VR #58	09/16/09	09/29/09	3A	Additional Wire Setup Sites.
VR #59	10/08/09	10/14/09	3A	Additional Wire Setup Site Towers 48 and 49
VR #60	10/15/09	10/16/09	1	Modification to MM PH-6, notification timing for energization.
VR #61	10/21/09	10/21/09	2, 3A	Work on Sunday, December 26 and November 1.
VR #62	11/16/09	11/19/09	3A	Additional and expanded wire setup and fiber work sites.
VR #63	11/18/09	11/23/09	3A	Additional Wire Setup Sites.
VR #64	12/01/09	12/7/09	2	Cut the stub angles of two footers and cut the remaining two footers to ground level at a wreck-out structure adjacent to Construct 34A
VR #65	12/18/09	12/22/09	1	66 kV relocation Shoofly.
VR #66	01/11/10	01/19/10	1	Modify the requirements of Mitigation Measure B-1a (Provide Restoration/Compensation for Impacts to Native Vegetation Communities) to fulfill a request from the property owner.
VR #67	01/15/10	01/19/10	3A	Modify requirements of Mitigation Measure B-27b and APMs BIO-2 and BIO-7 to preserve cut Joshua trees onsite instead of off-site disposal to the extent possible for habitat creation purposes.

TABLE 3
TEMPORARY EXTRA WORKSPACE (TEWS) REQUESTS
(Updated 02/15/2010)

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 10-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 Request	Date Requested	Date Approved	Segment #	Description
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 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.
TEWS 29	09/09/09	09/10/09	2	Use of existing dirt road near existing Tower and adjacent to the Vincent sub in order to access 12 kV line Bootlegger.

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 02/15/2010)

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.
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.

Type	Date	Location	Description
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.
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.

Type	Date	Location	Description
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	2-quart hydraulic fluid spill from equipment.
Incident	6/23/09	Rodeo Yard	¼-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	¼ 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	¾ 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.

Type	Date	Location	Description
Incident	7/16/09	Segment 2	¼-cup hydraulic fluid spill at the Ave I Yard and ½-cup 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	1½ cups of hydraulic fluid leak from 3 graders.
Incident	7/23/09	Mojave Yard	1 quart and 2 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 cup, from a wire puller between Towers 22 and 23.
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 1 quart, from a National Crane Series 1800.
Incident	8/11/09	Segment 2	Near Tower 2, 1 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.
Incident	8/26/09	Segment 2	Approximately 2 cups of diesel fuel on access road to guard pole 112.
Incident	8/31/09	Segment 2	Approximately 2 cups of diesel spill from wire puller WSS 107.
Incident	9/02/09	Segment 2	Approximately 2 cups of diesel spill from wire puller WSS 106A.
Project Memorandum #10	09/09/09	Segment 2	Construction crews dumped excess soils into an area not approved for project used. A biological clearance survey was not conducted or submitted prior to use.
Incident	09/08/09	Windhub Substation	Spill approximately 4 tablespoons hydraulic fluid from PCS grader #613C
Incident	09/09/09	Segment 3A	Spill approximately 2 tablespoons hydraulic fluid from Driller #D203 Tower 1.
Incident	09/16/09	Segment 2	Diesel spill approximately 1 quart.
Incident	09/23/09	Segment 2	Approximately 20 gallons of hydraulic fluid leak from a crane.
Incident	09/24/09	Segment 2	Diesel spill approximately 2 quarts from wire puller WS504.
Incident	09/28/09	Segment 2	7 to 10 gallons of hydraulic fluid from the crane truck near Tower 67.
Incident	10/02/09	Segment 2	Approximately 2 cups of diesel fuel from wire puller WS504.
Incident	10/02/09	Segment 1	Hydraulic fluid spill, less than one gallon, near Tower 100.

Type	Date	Location	Description
Incident	10/02/09	Segment 2	Approximately 1-2 cups diesel fuel spill, Sagebrush 250 distribution area.
Incident	10/02/09	Section 3, Segment 1	Damage to a foundation in Section 3, CPUC EM was not notified.
Incident	10/03/09	Segment 2	½ cup hydraulic spill at Tower 95
Incident	10/03/09	Segment 2	½ cup diesel spill at WSS 95-96
Incident	10/05/09	Segment 2	½ cup hydraulic spill at Tower 95
Incident	10/05/09	Segment 2	Small power steering fluid lead at Tower 95
Incident	10/05/09	Windhub	10-20 gallon diesel spill at Windhub Substation
Incident	10/12/09	Segment 2	½ to 1 gallon radiator fluid leak at Tower 31.
Incident	10/17/09	Segment 2	1 gallon diesel spill at Tower 96.
Project Memorandum #11	10/22/09	Segments 1,2	Untimely notification of new cultural resource find in Segment 2 and damage to historic property in Segment 1, and construction occurring with no cultural monitors present in Segment 2.
Incident	11/3/09	Segment 3A	¼ cup of hydraulic fluid from forklift #SU4X69
Incident	11/11/09	Windhub	1 to 2 cups of hydraulic fluid leaked out of backhoe loader #55.
Incident	11/17/09	Windhub	Approximately ¼ cup of hydraulic fluid from a water truck.
Incident	11/23/09	Windhub	¼ cup of hydraulic fluid from a water truck.
Incident	12/15/09	Segment 2	¼ cup hydraulic spill at Tower 105.

PROJECT PHOTOGRAPHS



Figure 1: Erosion incising at Tower 9, Segment 1.



Figure 2: Erosion slumping at Tower 23, Segment 2.



Figure 3: Erosion rilling at Tower 34, Segment 2



Figure 4: Rutting within Tower 43 overland travel access due to OHV use.