



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
Justin Seastrand, Project Manager, ANF
From: Vida Strong, Aspen Project Manager
Date: April 21, 2009
Subject: Weekly Reports 64 and 65: March 29 to April 11, 2009.

INTRODUCTION

This report provides a summary of the construction and compliance activities associated with the SCE Antelope-Pardee 500 kV Transmission Project, Segment 1, and SCE Antelope Transmission Project, Segments 2 and 3A. A summary of the Notices to Proceed with construction and Variance Request activity are also provided (see Tables 1 and 2, respectively, near the end of this report). Finally, a summary of Temporary Extra Workspace and non-compliance activity are provided in Tables 3 and 4, respectively.

SEGMENT 1: Antelope-Pardee

The Antelope-Pardee Project, Segment 1, is comprised of three sections:

- Section 1: Pardee Substation to the ANF boundary.
- Section 2: ANF
- Section 3: ANF Boundary to the Antelope Substation

During the subject period, construction activity continued under Notice to Proceed (NTP) #7 for construction of Section 1 and NTPs #2 and #11 for construction of Section 3, including the Antelope Substation. In addition, work continued under NTP #18 and the Special Use Permit (SUP) for construction of Section 2, Angeles National Forest. Equipment, materials, and office trailers are being staged in approved construction yards.

SECTION 1

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

Summary of Activity:

The Shoofly (temporary bypass of Santa Clara Vincent line) of the Antelope Pardee Transmission Line Project authorized under NTP #5 was energized between May 2008 and March 2009. The lattice tower structures originally supporting the line have been replaced with double-circuit towers to accommodate both the Santa Clara Vincent and Antelope Pardee lines between the Pardee Substation and Structure 25 in Santa Clarita.

NTP #7 for Section 1 of Segment 1 was issued by the CPUC on May 8th. Construction activities approved under NTP #7 include the removal of the Saugus-Del Sur 66 kV line and towers, the construction of the new 500 kV double circuit lattice towers, and the removal of the existing 220 kV Santa Clara Vincent line and towers. Construction activities under NTPs #5 and #7 during the subject period consisted of the following activities.



1. Final wire installation work along the new 500 kV double circuit towers continued, including the placement of weights, spacers, and insulators has been completed.
2. Installation of the coaxial cable near Tower 11 was completed during the subject period.
3. The temporary bypass line (Shoofly) was de-energized and crews completed removing the Tubular Steel Pole Shoofly structures in Section 1.
4. Removal of the Santa Clara Vincent lattice towers will take place after the Shoofly has been dismantled.
5. Wire removal of the Santa Clara Vincent line began between the Pardee Substation and San Francisco Canyon Road. Wire removal has been completed between wreck-out towers 1B-2, and 13-15.

Environmental Compliance:

1. SCE submitted a request to reopen the Lower Pumpkin Yard for construction use. The request was approved by CDFG with the same conditions as before, that access to the yard would not take place during flows of Bouquet Creek which supports an endangered fish species and crosses the entrance to the yard. If water is present, crews are not permitted to cross the drainage and are required to notify CDFG and the CPUC.

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

Agency Representatives:

None.

SECTION 2, ANF & ADJACENT YARDS

ANF Representatives: Justin Seastrand, George Geer, Mike Roberts, Janet Nickerman, Katie VinZant
CPUC/Aspen Environmental Monitors (EM): Jenny Slaughter and Arturo Ruelas

Summary of Activity:

On October 23, 2008, the Angeles National Forest issued a Special Use Permit for construction of the new 500 kV towers and the removal of the existing 66 kV towers on National Forest System lands; a Notice to Proceed (NTP) from the CPUC was issued on October 27th. The 66 kV conductor removal has been completed and was permitted by a separate SUP issued by the ANF and NTPs issued by CPUC.

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

Date	Project Activity Level (PAL)	Activity Allowed/Conducted
Sunday, March 29	EV	Work is allowed
Monday, March 30	C	Work is allowed
Tuesday, March 31	EV	Work is allowed
Wednesday, April 1	EV	Work is allowed
Thursday, April 2	D	Work is allowed
Friday, April 3	C	Work is allowed
Saturday, April 4	A	Work is allowed
Sunday, April 5	D	Work is allowed
Monday, April 6	EV	Work is allowed
Tuesday, April 7	EV	Work is allowed
Wednesday, April 8	EV	Work is allowed
Thursday, April 9	C	Work is allowed
Friday, April 10	A	Work is allowed
Saturday, April 11	A	Work is allowed

Construction activities during the subject week consisted of the following:

1. Brush clearing crews have completed clearing vegetation in disturbance areas on the ANF; however, some tower assembly areas and fly yards may require additional vegetation mowing if they will continue to be used for construction.
2. Footing preparation crews have completed hand digging on all ANF tower sites. The hand excavations/ footing preparation takes place prior to the mobilization of the micropiling crews.
3. Micropiling crews are constructing foundations between Structures 78-87 on the ANF (see Figure 1). Grouting crews are working out of the Hydrant Yard for the micropiling operations. All towers on the ANF are constructed with micropile foundations except for the road accessible sites (4 towers total).
4. Tower foundation capping is taking place after micropiling has been completed. The foundation capping crews worked between structures 57 and 64. Concrete for the foundation caps is being flown out the assembly areas on Del Sur Ridge.
5. Tower assembly is occurring within the tower assembly areas on the ANF as well as in nearby yards.
6. The heavy lift helicopter, an Ericsson skycrane, was used between April 9 and 11 to fly large tower sections into place. The skycrane flew tower sections (bases, bodies, and bridges) into place between structures 29 and 56 (see Figure 2). Structures 33, 41, and 52 are being built conventionally, and Structure 31 was not erected due to additional micropiling requirements. A second round of tower assembly, for structures 57-87 using the skycrane is planned for late-May.
7. United Construction crews (PAR's subcontractor) finished removing the 66 kV lattice towers from the ANF; however, some of the foundations have been left for removal at a later time.

Environmental Compliance

1. Microtrash on the ANF continued to be present in assembly areas and at tower sites (see Figure 3). The ANF permit administrator indicated that microtrash must be collected at all work areas at the end of each day. This issue will be continually monitored during construction on the ANF. Burns and McDonnell have dedicated monitors to survey the work areas for microtrash.

2. A Sage sparrow nest (now containing eggs) was identified within 50 feet of SR 41. Biologists will continue to monitor the nest during construction activities.
3. An inspection of the newly constructed roads on the ANF was conducted by Mike Roberts, ANF. Mr. Roberts noted several road drains would require regular cleaning out and run off silting in areas of riprap along SR 52 should be monitored.
4. All vehicles and equipment are being washed before entering ANF lands at the Pumpkin Yard wash station. The wheel wash, which is on the north side of Bouquet Creek and does not require use of the stream crossing for access, will remain in its current location. Other wheel wash stations have been set-up at the entrance to Spur Roads 41 and 52, Spunky Edison Road, and the access to Towers 76-77. All vehicles and tracked equipment must be washed prior to entering these new roads in order to minimize the spreading of invasive plant species in the recently disturbed soils.
5. As approved by the ANF Permit Administrator, PAR will replace tarps on the footer excavation with ramps of either lath or 2x4 inch wood studs in order to facilitate wildlife that might fall in to exit and not become trapped in the foundation footing holes.
6. Changes to two activities were granted by the ANF Project Administrator. Tower assembly and chipping of vegetation in Landing Zones can continue beyond 1pm on EV days. These two activities can occur as long as a water truck is present with a minimum of 300 gallons of water and a charge hose, and all the vegetation has been cut down to two inches.
7. Within Landing Zones, chips must be stored in a pile. Spreading of chips will be considered a Non-Compliance by the ANF.
8. The ANF Permit Administrator has requested that all topsoil storage sites (SR 41, 52, and 73 and associated WSS sites) be flagged and identified with ESA signs.
9. There must be a ten-foot clearance around all equipment and engines, and all the vegetation must be cut to a minimum height of two inches.
10. SCE must provide updated bird nest tracking tables and maps on a weekly basis to all SCE monitors and CPUC EMs.

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

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

None.

SECTION 3, ANTELOPE SUBSTATION, & ADJACENT YARDS

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

Summary of Activity:

Section 3 includes the construction of the 500 kV towers, the dismantling of the Saugus–Del Sur 66 kV transmission line, the construction of the 12 kV distribution line, and the Antelope Substation expansion for the Antelope Pardee Project.

NTPs #10 (for the 12 kV component of Section 3 of Segment 1) and #11 (for the 500 kV tower constructions and dismantling of the 66 kV transmission line) were issued by the CPUC on June 25th. In Section 3, a combination of single circuit lattice towers and tubular steel poles are used to support the new 500 kV line. Construction activities approved under NTP #2 continued for the Antelope Substation expansion work. Construction of the 12 kV distribution line as authorized under NTP #10 has been completed, and the line was energized on September 2nd.

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

1. Most towers in Section 3 have been assembled, with the exception of towers entering the Antelope Substation. Wire stringing, clipping in, sleeving, and sagging was completed between Towers 96 and 110 (see Figure 4).
2. A Temporary Extra Workspace was requested and approved on April 7 for expansion of stringing sites need to install conductor between Towers 110 and 112.
3. 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 continue the construction of the new substation components within the expansion area.

Environmental Compliance

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

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

Agency Representatives during Construction (other than CPUC EMs):

None.

SEGMENT 2: Antelope-Vincent

Summary of Activity:

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

1. The 66 kV line has been relocated and energized between the Antelope Substation and the California Aqueduct. All of the original wood poles have been removed. Two of the new wood poles were replaced with TSPs during an outage.
2. During the subject weeks, PAR crews began working around two of the three "Hijack" areas: Northern Hijack Towers 23-30 and Middle Hijack Towers 33-37 (see Figure 5). Construction activities included the stringing of the new conductor (wire) between Towers 23-30, the modification of existing transmission structures, and the setting of guard structures (guard poles) for the protection of roadways and other transmission or distribution lines during the wire stringing operation.
3. All the Tubular Steel Poles (TSP) for the shoofly component near the Vincent Substation have been installed and crews are ready for the scheduled outage in order to remove the wire along the Eagle-Vincent 220 kV line between Structures 18-3 and 27-1.
4. Access roads for 500 kV towers have been completed in most areas of Segment 2. During the subject week access road to Tower 85, 103, 106, 108, 118-119 and Sagebrush Tower 250 was completed. Access Road (AR62) near Tower 83 is on hold after a lark sparrow nest was found with four eggs in it less than 20 feet away from the road.
5. Drilling of foundations for 500 kV Towers 65-70, 84-86, 89, 105-107, VSF-1-VSF-5, Sagebrush 2A, 211, 249, and 250 were completed during the subject weeks.
6. Concrete pouring occurred at foundations for Towers 58-82 and along the Shoofly near the Vincent Substation. Concrete pouring of foundations for Sagebrush Towers 2A, 211, 249, and 250 were completed during the subject weeks.
7. Steel assembly continued at Towers 2-19, 21-33, and 35, VSF-1-VSF-5 Sagebrush 2A, 249, and 250. Assembly at Tower 19 and Sagebrush 211 has been completed.
8. Guard pole installation along Goode Hill Road between Towers 29 and 30 was completed.
9. A Temporary Extra Workspace was requested and approved on April 7 to access conductor on the Sagebrush line during structure modifications near Tower 106.
10. Grading of Wire Stringing Sites (WSS) 16, 33, and of snub site 35 was completed. WSS-39 is on hold after an active nest (California thrasher with eggs) was found in the nearby vegetation.

Environmental Compliance:

1. As conditioned in the NTP, all sensitive resources are being flagged for avoidance and verified by the CPUC EM prior to construction.
2. An addendum for modifications to the Sagebrush structures in Segment 2 was approved by the CPUC on March 16. Work associated with the modifications is occurring once the biological clearance surveys have been completed and field verified by the CPUC EM.
3. Protocol level surveys for Western burrowing owls in portions of Segment 2 identified in the LSA Burrowing Owl Survey Report are required within 30 days of the initiation of construction. All protocol level survey reports for Burrowing owls have been submitted.
4. Juniper and Joshua trees impacted by construction are being tracked by Burns and McDonnell Environmental Inspectors for future mitigation.
5. For the Amargosa Creek crossing, additional Best Management Practices (BMP's) were added along the roadway to capture silt and other debris before it enters the creek. No rolling dips, straw wattles or water bars will be installed or constructed within the creek channel.
6. Several partially constructed or abandoned raven nests were removed in Towers 23, 26, 32, and 33. Nests in SCE towers to be removed for the Hijack near Structures 76 and 79 will be left in place since PAR does not anticipate work in those towers for some time.

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

Agency Representatives during Construction (other than CPUC EMs):

None.

SEGMENT 3A: Antelope-Windhub

The NTP for Segment 3A (NTP #17) was issued by the CPUC on October 22, 2008. Segment 3A involves the construction of a new 25.6-mile 500 kV transmission line initially energized at 220 kV connecting SCE's Antelope Substation in the City of Lancaster to a new proposed 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. No construction activities have taken place to date.

Summary of Activity

1. Construction of Segment 3A began on March 31 with brush clearing at Tower 21.
2. Once other tower sites were released, brush clearing took place at Towers 23-26 (see Figure 6).
3. Foundation drilling took place between Towers 21-26.

Environmental Compliance:

1. Several areas of Segment 3A have not been acquired by SCE for construction. Other portions of the segment released are being requested for construction, once biological surveys are completed and reviewed. To date, the following areas have been verified by Aspen and are released for construction: Towers 2, 3, 10, 11, 17, 18, 21-26, 80-95, 97-103.
2. On March 30, the CPUC EM toured several tower sites on Segment 3A to verify disturbance area and resource flagging. Out of the eight towers requested (2, 3, 21-26), only two were released for construction by the CPUC EM (Towers 21 and 25). Problems encountered during the field tour included no marking of new access roads and towers, and resources not located and flagged in the field.
3. On April 8, after another field verification of work areas by the CPUC EM, Towers 2, 3, 10-11, 17-18, and 22-26 were released to construction.
4. On April 9, a road grader was observed grading the access road to Tower 23. This road was proposed as to be used with no improvement.
5. An active nest containing chicks was found near Tower 22. Until the chicks have fledged, use of the adjacent access road and tower site preparation can not occur.
6. On April 10, the CPUC EMs conducted field verification of Towers 80-103 (with the exception of Tower 96 which has active burrowing owl burrows and will not be constructed until after the breeding season). Road flagging between Avenue J and Avenue I was knocked down by grazing sheep and will have to be replaced prior to construction.
7. A protocol level survey report for Western burrowing owls was submitted on March 26th for 42 of 103 Towers in Segment 3A. The report for burrowing owl survey information for the remainder of the towers is expected next week.
8. 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.
9. Capping of access roads for the protection of cultural resource sites is required in Segment 3A. To date, none of the access roads have been capped. The CPUC EMs have requested a timeline of when this is expected to occur.
10. Partial authorization regarding the letter report for the Bean Springs archaeological site CA-KER-2821/H dated November 26, 2008 and received on February 3, 2009, was issued by CPUC on February 19th. Work at TSP 3A-43 is authorized to proceed; however, no work shall occur at TSP 3A-44 and associated ADI and access road until the Final Report is submitted for review and approval.

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

Agency Representatives during Construction (other than CPUC EMs):

Dan Blankenship, CDFG.

CPUC NOTICES TO PROCEED (NTPS) & ANF PERMITTING

Table 1 summarizes the CPUC Notice to Proceed and ANF permitting activity for the Antelope-Pardee Project, Segments 1, 2, and 3, to date.

TABLE 1
CPUC NTPS & ANF PERMITTING

(Updated 04/21/09)

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

NTP #/ Permit	Date Requested	Date Issued	Segment #	Description
ANF PERMITTING				
	11/29/07	12/14/07	1	Radio Repeater – installation of a temporary radio repeater site on Sierra Pelona Ridge to provide communication during construction activities tied to the project. Improvement installation began Jan. 11
	09/27/07	12/14/07	1	Geotechnical testing – 23 geotechnical borings are authorized on National Forest lands to provide additional information that will be used in the design of the transmission towers. Notice to proceed was signed Jan 31 to begin work the week of Feb. 3
		07/14/08	1	Removal of the 66 kV conductor within the ANF, from tower 7-3 (near southern Forest boundary) to 16-3 (near Bouquet Reservoir) Phase I.
		09/23/08	1	Removal of the 66 kV conductor within the ANF, Phase II
		10/23/08	1	Construction of the 500 kV transmission line and wreck-out of the 66 kV towers in the ANF, Section 2.

VARIANCE & TEMPORARY EXTRA WORKSPACE REQUESTS

Variance Requests and Temporary Extra Workspace (TEWS) Requests submitted to date are summarized in Tables 2 and 3, respectively.

TABLE 2
VARIANCE REQUESTS
(Updated 04/21/09)

Variance Request	Date Requested	Date Issued	Segment #	Description
VR #1	04/01/08	04/03/08	1	Change in construction of an overland travel road to Shoofly pole 18, to a temporary road construction method.
VR #2	04/18/08	04/19/08	1	Several expanded stringing sites, new staging areas, and guard pole installation sites for the removal of the 220 kV line.
VR #3	04/24/08	05/25/08	1	Weekend work along the Shoofly portion of Section 1, within the City of Santa Clarita and Los Angeles County, and at the Antelope Substation, Avenue J, in the City of Lancaster.
VR #4	05/08/08	05/09/08	1	Weekend work along the 66 kV line in Section 1
VR #5	07/15/08	VR will be submitted as separate requests		Expansion of guard pole structure areas in Haskell Canyon, New wire stringing site between NC 11 and 12, and crane pad near NC 20.
VR #6	07/30/08	07/30/08	1	Modification to the notice and review requirements under Mitigation Measures L-5 and L-6.
VR #7	08/12/08	08/16/08	1	Wire Stringing site in Section 1 between NC 11 and 12.
VR #8	08/20/08	08/27/08	1	Guard poles at Haskell Canyon outside of approved disturbance areas.
VR #9	08/19/08	09/09/08	1	Valuzet Movie Ranch Helicopter Landing Zone, Section 1.
VR #10	08/21/08	08/27/08	1	Permission to leave one tower foundation in place at wreck-out tower 24/2 in Section 1, due to likelihood of slope failure.

Variance Request	Date Requested	Date Issued	Segment #	Description
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 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 shoo-fly transmission structures to the new permanent Antelope-Pardee 500 kV double- circuit transmission line, Segment 1, Section 1.
VR #35	03/21/09	03/26/09	2	New Access Road to Tower 83, Segment 2

Variance Request	Date Requested	Date Issued	Segment #	Description
VR #36	03/09/09	03/31/09	1	Heavy- lift helicopter Segment 1 Section 2 allows for the sky crane to begin flying at 6am for two ten days operations and to fly on one Sunday for each operation. Fly yards outside the ANF will also be used: Upper Pumpkin Yard, Hydrant and Reitano.
VR #37	03/30/09	03/31/09	1	Installation of an underground conduit near Tower 11, Section 1.
VR #38	04/06/09	04/08/09	2	Wire removal structure 27-1 to existing structure 18-3 on the Eagle-Rock Vincent Transmission Line near the Vincent substation.
VR #39	04/06/09	4/10/09	2	Guard pole relocation near hijack towers 34A and 3.
VR #40	4/14/09	4/15/09	2	Sunday work on April 19 th , April 26 th , May 3 rd , and May 10 th to take advantage of a scheduled outage.

TABLE 3
TEMPORARY EXTRA WORKSPACE (TEWS) REQUESTS
(Updated 04/21/09)

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.

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 04/21/09)

Type	Date	Location	Description
Project Memorandum	03/25/08	Segment 1, Section 1	Deposition of soil into drainage at Soil Disposal site.
Project Memorandum	04/18/08	Segment 1, Section 1	Encroachment into Environmentally sensitive area during stringing operations.
Project Memorandum	04/30/08	Segment 1, yards	No clearance surveys of construction yards being conducted during bird nesting season.
Project Memorandum	05/21/08	Segment 1, Section 1	Inaccurate and incomplete resource maps.
Project Memorandum	08/06/08	Segment 1, Section 3	Completion of 12 kV wreck-out of 21 poles outside of disturbance area prior to Variance approval.
Incident	09/10/08	Segment 1, Section 3	Spill resulting from overturned cement truck. Incident report documenting spill amounts submitted on October 15.
Incident	10/13/08	Segment 1, Section 1	Spill resulting from overturned portable toilets at the Pottery Yard during high winds. The CPUC EM was not notified until a spill report was submitted on October 30. Spill was not cleaned up until the next day.
Incident	10/15/08	Segment 2	66 kV crews delivered materials to the right-of-way before disturbance areas had been flagged and biologically surveyed.
Incident	10/16/08	Segment 1, Section 3	Spill resulting from a broken hydraulic hose. Incident report pending.
Incident	11/06/08	Segment 1, Section 3	12 kV underground crews began work before disturbance areas had been flagged and biologically surveyed.
Incident	11/18/08	Segment 1, Section 2	No topsoil was separated prior to grading near NC 33.
Non-Compliance	12/01/08	Segment 1	Construction vehicles crossing through flowing waters of Bouquet Creek to access the Pumpkin Yard.
Non-Compliance	12/03/08	Segment 2	SCE 66 kV crews working without notifying Environmental staff and no disturbance areas had been flagged.
Incident	12/17/08	Segment 1, Pumpkin Yard	Jet fuel, diesel, and other hydrocarbon spill resulting from helicopter accident. Incident report submitted December 29.
Project Memorandum	01/23/09	Segment 2	Heavy equipment causing ground disturbance within Environmentally Sensitive Area (ESA).
Incident	01/27/2009	Segment 2 Avenue I Yard	Diesel spill approximately 15 to 20 gallons from a subcontractor diesel truck. 30-40 tons of contaminated soil was removed.
Incident	02/02/09	Segment 2	Five gallon spill of antifreeze on Access Road 55.
Incident	02/04/09	Segment 2	Less than one pint of diesel fuel was spilled on the access road to Structure 47; approximately five gallons of contaminated soil was collected.
Incident	02/04/09	Segment 2	One quart hydraulic fluid spilled at Structure 22 when backhoe tipped over.
Incident	02/05/09	Segment 1, Section 2	Hydrant Yard - excavator for steel disassembly blew out a hydraulic line spilling one quart of fluid.

Type	Date	Location	Description
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 feet all contaminated materials removed near Const 24.
Incident	03/06/09	Mojave Yard	Hydrocarbon staining from leaking equipment in storage yard.
Incident	03/09/09	Segment 1	1 cup hydraulic spill at Lower Pumpkin Yard, Segment 1.
Incident	03/09/09	Segment 1 Section 2	¼ cup hydraulic spill at Tower 60, Section 2 ANF.
Incident	03/09/09	Segment 1 Section 2	Form oil staining on ground near Towers 33, 34, and 36 on Section 2, ANF.
Incident	03/10/09	Segment 2	Oil staining from equipment within Avenue J yard.
Incident	03/12/09	Segment 1 Section 2	Micro-trash observed in several steel assembly areas on Section 2, ANF.
Incident	03/13/09	Segment 2	Transmission oil spill at Tower 43, Segment 2.
Project Memorandum	03/19/09	Segment 3A	Road staking crews entered an Environmentally Sensitive Area while flagging new access roads.
Incident	3/24/09	Segment 2	Diesel spill at Tower 71.
Incident	3/26/09	Section 1, Segment 1	Wire removal next to active scrub jay nest with no biological monitors present.
Incident	3/30/09	Ave I yard	Spill of ¼ cup hydraulic fluid as result of equipment theft.
Incident	3/31/09	Section 1, Segment 1	¼ cup hydraulic spill at Shoofly 4 in Section 1.
Incident	3/31/09	Section 2, Segment 1	15-gallon hydraulic spill at AHS 19 resulting from broken line on cement truck.
Incident	4/01/09	Segment 2	1-gallon diesel spill at snub site near Tower 35.
Incident	4/09/09	Segment 3A	Grading along access road proposed as no improvement.

PROJECT PHOTOS



Figure 1: Micropiling operations at Tower 77 on the ANF.



Figure 2: Skycrane lifting tower sections into place on the ANF.



Figure 3: Microtrash observed at Tower 33 on the ANF.



Figure 4: Stringing activity in Section 3, Segment 1.



Figure 5: Modifications to a Sagebrush structure in Segment 2.



Figure 6: Crush clearing at Tower 24 in Segment 3A.