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**PROJECT MEMORANDUM  
SCE TRANSMISSION PROJECTS, SEGMENTS 1 - 11**

**To:** John Boccio, Project Manager, CPUC  
**From:** Vida Strong, Aspen Project Manager  
**Date:** December 22, 2011  
**Subject:** Weekly Report 201, November 27 to December 03, 2011

## INTRODUCTION

This report provides a summary of the construction and compliance activities associated with the following SCE transmission projects:

1. Antelope-Pardee 500 kV Transmission Project, Segment 1, including Antelope Substation expansion;
2. Antelope Transmission Project, Segments 2, 3A and 3B, including the Windhub and Highwind Substations; and
3. Tehachapi Renewable Transmission Project, Segments 4 through 11, including Whirlwind Substation and the expansion of Vincent 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.

**CPUC/Aspen Environmental Monitors (EM):** Jenny Slaughter, Stephanie Jayne, and Allison Roth

## SEGMENTS 1-3: ANTELOPE-PARDEE AND ANTELOPE TRANSMISSION PROJECTS

### Summary of Activity:

1. Office trailers are being set-up at the Highwind Material Yard near Tehachapi in preparation for Segment 3B. The yard contains material for Segment 3B.
2. Construction of Segments 1, 2, and 3A have been completed. Construction of Segment 3B, from Windhub Substation to and including Highwind Substation, is delayed until early 2012. Focused surveys for desert tortoise and Mohave ground squirrel were conducted in the spring, and the survey results were approved on August 30 and September 16, respectively.
3. The Wilderness Line work, associated with Segment 3B, occurred along Oak Creek Road. Three tubular steel pole (TSP) foundations were completed (see Figure 1). Partial erection of one TSP occurred (see Figure 2). The remaining work is on hold until Segment 3B work begins in this area.
4. Construction activities at the Antelope Substation included placement of tertiary reactor foundations for the 1AA and 2AA banks, installation of 500 kV shunt capacitor bank foundations, installation of TSP foundations and cages, and installation of chain link fencing for the perimeter wall is currently 75% complete.
5. No materials were stored in the laydown yard at the Antelope Substation during this reporting period. The spoil pile in front of the Antelope construction trailers is covered with gravel and jute netting for potential future use. An SCE office trailer for TRTP 4-11 has been installed adjacent to the spoil pile area.



6. Construction activities at the Windhub Substation included 500 kV switchrack and steel, 220 kV bus extension and testing, station light and power testing, and work on the 3AA and 4AA banks. Lighting and security is being installed inside the substation.
7. Restoration on Segment 1 has been recently completed and is still being maintained. The Segment 1 Annual Report for Year 1 was submitted on December 2. Quarterly Report #3 for the activity was submitted September 16th.
8. Revegetation for Segments 2 and 3A started in mid-February and was completed in April. Ongoing maintenance activities will be documented in Quarterly Reports to the CPUC.

**Environmental Compliance:**

1. On November 30, 2011, a cultural update was provided to the CPUC concerning a site that is no longer eligible for monitoring during construction of Segment 3B.
2. SCE has developed a solution for the channel incision that occurred immediately downstream of the ripped stream channel at the Windhub Substation site for which an Addendum was approved by the CPUC. California Department of Fish and Game (CDFG) concurred that an amendment to the Streambed Alteration Agreement for this effort is not required. SCE is coordinating with the Regional Water Quality Control Board.

No Project Memoranda were issued for Segment 1-3 construction activities during the subject period. Non-Compliance activities for the project to date are summarized in Table 4.

**AGENCY REPRESENTATIVES DURING CONSTRUCTION (OTHER THAN CPUC EMS):**

None

**TEHACHAPI RENEWABLE TRANSMISSION PROJECT (TRTP) SEGMENTS 4-11**

The SCE Tehachapi Renewable Transmission Project was evaluated in accordance with the California Environmental Quality Act and a Certification of Public Convenience and Necessity (CPCN) was granted by the CPUC on December 17, 2009.

**SEGMENTS 4, 5, AND 10 - ANTELOPE VALLEY**

**Summary of Activity**

1. Inside the Vincent Substation, grading and below-grade civil construction is 99% complete. 500 kV above-grade construction and electrical work is 90% complete. In the Vincent Expansion area, foundation work was conducted. Landscaping around the substation has not commenced. The new control building is scheduled to break ground in January 2012. KGC remains onsite to maintain the SWPPP, BMP's, trash, road sweeping, and dust control.
2. Segment 4: KV Structures (drilling contractor) completed drilling, setting rebar cages using a spider jig for stub angle placement, and concrete pouring on the Midway-Vincent upgrade towers. H&M steel crews continued tower assembly and erection of the Midway-Vincent upgrade Towers M83-T3X, M87-T2X, and M78-T1X. The H&M underground fiber optic crew continued work near existing Tower 55 near the Antelope Substation. Minor BMP maintenance occurred throughout the segment.
3. Segment 5: Woodward Brothers (drilling contractor) continued drilling, setting rebar cages, and concrete pouring at Tower 55A. H&M steel crews continued tower assembly and erection of the Midway-Vincent upgrade Towers M90-T1X, M91-T2X, and M92-T1X. H&H Grading conducted BMP (i.e. fiber roll) maintenance throughout the segment. Cattracts continued hauling rock (from Tower 68 excavation) to an approved off-site landfill in Lancaster. They also mobilized to Tower 25 to conduct slope stabilization work. Crux partially mobilized to Tower 68 to prepare for micro-pile foundation work (see Figure 3).

4. Segment 10: KV Structures (drilling contractor) completed drilling, setting rebar cages using a spider jig for stub angle placement, and concrete pouring at Tower 25. All foundation work is now completed on this segment. H&M steel crews continued tower assembly and erection at Towers 1, 3, and 21 (see Figure 4). Wire stringing continued between Towers 73 and 43. Towers 37, 39, 40, and 41 have not been erected, so wire stringing will occur in this section at a later date. A Moore Fence crew remains onsite for maintenance, clean-up, and tortoise fence installation of recently approved guard pole sites and turning radii. H&H Grading conducted BMP maintenance throughout the segment.
5. Segment 10 Telecom: Work has been completed on this Segment.
6. Whirlwind Substation: Ongoing work included capacitor racks, conductors and steel for the 1AA bank, removal of perimeter fencing, and installation of 220 kV disconnect structures and grounding in Position #2. Watering for fugitive dust continued.

**Environmental Compliance:**

1. SCE submitted a Segment 10 burrowing owl passive relocation report to the CPUC and CDFG on November 30, 2011.
2. SCE sent notification to CDFG of an inactive raven nest removal from Tower 40 on Segment 5 on December 1, 2011.
3. Red flag warning days occurred on December 1 and 2, 2011 which limited construction activities on Segment 5 per the Fire Plan.
4. SCE submitted FAA documentation for Tower 68 on Segment 5 and Tower 39 on Segment 10.
5. Jute netting was installed on a slope at Tower 50 disturbance area on Segment 5 (see Figure 5).
6. The CPUC received a memorandum from SCE on April 11<sup>th</sup> in regards to topsoil salvage from temporary disturbance sites for restoration and visual requirements for Segments 4, 5 and 10. So far, there has been no salvaging of topsoil in project areas. In response to the memorandum, CPUC has requested that SCE document their topsoil salvaging plans by Project segment. In addition, in response to a May 26th site visit on Segments 7 & 8 regarding top soil salvaging, the HMMP for Segments 4, 5 & 10 will be revised to reflect the top soil salvaging protocols discussed during the site visit. The revised Segment 7 & 8 HMMP was submitted on November 23rd.
7. Special-status species observed during the subject period by Biological Monitors included loggerhead shrike, prairie falcon, northern harrier, burrowing owl, golden eagle, ferruginous hawk, and sharp-shinned hawk.
8. No new nests were discovered during the subject period.

No CPUC Project Memoranda or NCR's were issued for Segments 4, 5, and 10 during this reporting period. Non-Compliance activities for the project to date are summarized in Table 4.

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

None

**SEGMENTS 6 AND 11 - ANGELES NATIONAL FOREST**

**Summary of Activity**

1. The Final EIS was released by the Angeles National Forest (ANF) on September 14, 2010. The ANF Record of Decision was issued on October 4, 2010, and the Special Use Permit is anticipated for release in early October 2011. Subsequently, construction is expected to begin in mid-December 2011.
2. Vincent North and South Material Yards: During the subject period, material delivery occurred.
3. Segment 6A Telecom Shoofly work is completed.

4. Construction activity on Segment 11A is now complete with the exception of jumpers at M11-T1 and M10-T5 which are awaiting material.
5. San Gabriel Yard: Demobilization and cleanup of the yard are now complete, and SWPPP stabilization is underway.
6. Weed abatement activities have been completed on Segments 6 and 11 for the season. Approximately 35 acres of weed abatement has occurred to date.

### **Environmental Compliance**

1. The CPUC EM attended a field site visit of Segment 6B with the ANF, SCE, and CH2MHill representatives on November 30, 2011. Various tower locations were visited to discuss access road improvements and engineering issues.
2. Watering for dust control occurred at the Vincent North and South Material Yards.
3. SCE received the Segment 6A Streambed Alteration Agreement from CDFG on November 8<sup>th</sup>.

No CPUC Project Memoranda or NCR's were issued for Segments 6 and 11 during this reporting period. Non-Compliance activities for the project to date are summarized in Table 4.

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

Justin Seastrand, ANF

## **SEGMENTS 7 AND 8 - LOS ANGELES AND SAN BERNARDINO COUNTIES**

### **Summary of Activity**

1. Segment 7 Telecom: SCE and PAR crews continued work on the Dusty underground line along Arrow Highway. Crews continued hanging telecom wire on existing 66 kV lightweight steel poles (LWSP).
2. Segment 8 Telecom: Henkels and McCoy crews began the Rose Hills telecom work. Crews continued framing poles and hanging arms on existing distribution line poles. Additionally, the foreman staked wire setup site disturbance areas.
3. Segments 7 & 8, 66 kV: During the subject period, PAR crews continued digging vaults, and distribution and telecom trench lines within Ayala Park and across Edison Avenue (into Chino Substation) in the City of Chino as part of the 66 kV underground/Chino Substation relocation. Additionally, SCE crews framed poles within Chino Substation and replaced insulators within Montebello Hills (see Figure 6).
4. Segment 7: Wilson crews mowed and installed BMPs at tower sites and wire setup sites to keep environmental surveys active. Wilson continued assembly of four towers within USACE lands and at M42-T5 behind Mesa Substation. Additionally, crews installed spherical marker balls on the spans between Towers M54-T1 and M54-T3A and began installing FAA lights on M27-T4 and M54-T3A in the City of Duarte (see Figure 7). Crews also continued removal of the de-energized 66 kV lattice steel towers on the Rio Hondo-Amador-Jose-Mesa line. The 66 kV structure removal is now 90% complete. DCX sheared the dismantled 66 kV towers. Tri-State continued with foundation construction at Triple B Shooting Range in El Monte and within Whittier Narrows at Legg Lake (see Figure 8). To date, 100% of the conductor of the existing 220 kV Antelope-Mesa line has been removed and 100% of the structures have been removed. Of the 78 new double circuit 500 kV structures on the Mira Loma-Vincent line, a total of 40% of the foundations are complete and the structure assembly is 25% complete.
5. Segment 8, Phase 1: Wilson crews mowed vegetation and installed BMPs at tower sites and wire setup sites to keep environmental surveys active. Assembly began at Towers M56-T2 and M56-T4 within Tonner Canyon (see Environmental Compliance #1 below). Tri-State and DCX continued

drilling at two tower locations within Tonner Canyon. To date, 100% of the conductor and structures have been removed of the existing 220 kV Chino-Mesa and Mira Loma-Walnut and Mira Loma-Olinda lines. Of a total 43 new structures on the double circuit 500 kV Mira Loma-Vincent line, 97% of the foundations are complete (including 100% of the tubular steel pole foundations in the City of Chino Hills) and 84% of the towers are complete.

6. Segment 8, Phase 2: Wilson crews mowed and installed BMPs at tower sites and wire setup sites to keep environmental surveys active. Additionally, crews removed Towers M0-P1 and M0-P2 within Mira Loma Substation. Both 220 kV circuits (Chino-Mira Loma #1 and #2) were energized in June 2011.
7. Segment 8, Phase 3: No work occurred during the subject period.
8. Segment 8, Phase 4: Wilson and DCX crews mowed and installed BMPs at tower sites and wire setup sites to keep environmental surveys active and to activate sites. Wilson continued assembly at Tower M11-T1A and continued to set Emergency Steel Pole (ESP) bases and installing anchors at the San Gabriel Junction. DCX continued drilling at two tower locations. Additionally, DCX crews sheared towers and removed footers and cleared vegetation at tower sites. To date, 100% of the conductor and 95% of the structures on the existing 220 kV Chino-Mesa line have been removed. In total, foundations are 33% complete, one structure on the new double circuit 500 kV Mira Loma-Vincent line has been erected, and three structures on the 220 kV Chino-Mesa line have been erected.

#### **Environmental Compliance:**

1. A project-wide stop work order was issued on October 19<sup>th</sup> for work subject to FAA mitigation. SCE was ordered to not perform any new or additional tower construction and conductor stringing in areas that have a high probability of being subject to FAA mitigations. More specifically, conductor stringing in the City of Chino Hills within 1000 feet of any residents should not be undertaken.
2. The CPUC EM spoke with crews during marker ball and light installation on Segment 7 about increasing the frequency of watering because of past incidents of fugitive dust at the site (see Figure 9).
3. Approximately 10 gallons of waste and solution spilled when a porta-potty tipped during excessively high winds at the Huntington Contractor Yard on December 1<sup>st</sup>. The porta-potty contractor cleaned the waste and the SCE EIH was notified. .
4. An approximately 128 ounce diesel fuel spill was discovered on December 2<sup>nd</sup> at M42-T3. The fuel line on the undercarriage of a drill stored on-site had cracked and begun to leak. The spill was cleaned and the SCE EIH was notified.
5. During the subject period, the CPUC EM observed that silt fence at the San Gabriel Junction had been installed within the dripline of oak trees at the site (see Figure 10). The CPUC EM spoke with the Segment 8 Lead Monitor on-site, who said she had already spoken to SCE about the fence placement.
6. A red flag warning was issued in San Bernardino and Los Angeles counties December 1<sup>st</sup>, limiting work within high-risk areas through December 3<sup>rd</sup>.
7. The CPUC EMs had a conference call with SCE on November 2<sup>nd</sup> to discuss site activation maps and the Biological Opinion tracker (BOT) spreadsheet that SCE keeps for coastal California gnatcatcher disturbance acreage impacts. The CPUC EM asked SCE after the call why the area west of Greenwood Avenue and behind Mesa substation on Segment 7 was not included on the field maps or the BOT. There were CAGN nests there in 2010 and 2011. SCE responded on December 6<sup>th</sup> that they are managing the project as defined for the Biological Opinion, and “acreage of occupied habitat is tracked for coastal sage scrub habitat. Other habitat types are managed per the minimization measure of the BO and the EIR/EIS.” As Mesa Substation contains coastal sage scrub habitat adjacent to the project area, the project area will be managed via minimization measures.

8. Coastal California gnatcatcher, peregrine falcon, burrowing owl, a northern harrier and a sharp-shinned hawk were observed during the subject period by Biological Monitors.

No CPUC Non-Compliance Reports were issued during the subject period for Segments 7 and 8. 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 Transmission Projects, Segments 1-3, and TRTP, Segments 4-11, to date.

**TABLE 1**  
**CPUC NTPs & ANF PERMITTING**  
(Updated 12/22/11)

NTP #/ Permit	Date Requested	Date Issued	Segment #	Description
CPUC NTPs, Segments 1-3				
<i>For CPUC NTP and Addendum activity on Segments 1-3 prior to 2010, please see Table 1 in Weekly Reports 106-107.</i>				
#26	12/18/09	01/05/10	1	Expansion of Antelope Substation.
CPUC Addendum	12/21/09	01/19/10	1	Permanent AR 19 and access road to Const 34A.
CPUC Addendum	12/21/09	01/19/10	1	Permanent refueling basin at Hydrant Yard.
#27	12/23/09	01/05/10	3B	Oak Peak Communication Site
CPUC Addendum	01/25/10	02/01/10	2	Reclassification of two temporary roads to permanent and relocation of transposition poles.
Revised CPUC Addendum	02/10/10	02/19/10	2	Relocate two previously approved transposition towers from Const 110 to Const 105.
#28	02/10/10	02/18/10	3B	Highwind Marshalling Yard
#29	02/10/10	03/02/10	1	Relocation of the Sagebrush Transmission Line at the Antelope Substation expansion area.
CPUC Addendum	03/17/10	03/26/10	3A	Vertical mulching, capping of a portion of the existing roadway, and making this overland route a permanent access for SCE operations and maintenance to Const 43.
CPUC Addendum	04/06/10	04/27/10	3B	Elimination of transposition towers in Segment 3B.
CPUC Addendum	04/16/10	04/22/10	1	Installation of fiber optics surrounding the Antelope Expansion.
CPUC Addendum	05/25/10	06/04/10	1	Permanent overland travel routes for Operation and Maintenance inspections.
CPUC Addendum	05/25/10	06/04/10	2	Permanent overland travel routes for Operation and Maintenance inspections.
CPUC Addendum	11/23/10	12/14/10	Windhub Substation	Place additional riprap at the channel outlet at Windhub Substation, to mitigate for downstream erosion resulting from 2009/2010 rains.

NTP #/ Permit	Date Requested	Date Issued	Segment #	Description
CPUC NTPs Segments 4-11				
#1	01/13/10	02/11/10	4, 5, 10	Yard 28
#2	01/28/10	03/10/10	9	Vincent Substation Expansion
#3	03/09/10	04/01/10	7,8	Rancho Vista Yard
CPUC Addendum	04/09/10	04/19/10	9	Changes to Substation components.
#4	01/27/10	04/26/10	7, 8	Segment 7 and 8 Cell Sites
#5	01/27/10	04/30/10	7	Segment 7 Telecom
#6	03/29/10	05/12/10	7,8	Mesa Materials Storage Yard
#7	05/12/10	05/28/10	8	Segment 8 telecommunications.
#7 Mod	08/20/10	08/20/10	8	Minor re-routes to Segment 8 Telecom
#8	04/27/10	06/04/10	8	Segment 8 Contractor Yards
#9	07/21/10	07/29/10	7	Segment 7 Contractor Yards
#10	04/08/10	08/03/10	7, 8	66 kV re-route and relocation
#10 Mod	01/28/11	02/04/11	7/8 66 kV	Replace 14 existing wooden H-frames poles with steel H-frame poles in order to support the double 66 kV circuit.
#10 Mod	12/03/10	Retracted by SCE	7/8 66 kV	Change the design of the 66 kV line entry into the Chino Substation from underground to overhead. Visual simulation pending.
#10 Mod	03/15/11	03/22/11	7/8 66 kV	Removal and replacement of 21 wood poles with lightweight steel poles within Rio Hondo Substation.
#10 Mod	04/22/11	04/29/11	7/8 66 kV	Underground telecom.
#10 Mod	04/22/11	05/03/11	7/8 66 kV	Chino pole removals.
#10 Mod	05/23/11	06/02/11	7/8 66 kV	Realignment of approximately 500 feet of 66 kV underground transmission line.
#10 Mod	07/20/11	07/25/11	7/8 66 kV	Dusty underground connection.
#10 Mod	08/26/11	09/01/11	7/8 66 kV	New Fiber Optic Underground trench
#10 Mod	08/29/11	09/08/11	66 kV	Insulator replacement in Montebello Hills
#10 Mod	09/28/11 additional information submitted 10/11/11	10/21/11	66 kV	Additional work areas and poles.
#10 Mod	10/31/11	11/04/11	7, 8 66 kV	Additional underground trenching near Edison Avenue.
#10 Mod	11/02/11	11/09/11	66 kV	Pole removal along Siphon Road.
#10 Mod	12/13/11	12/22/11	7/8 66 kV	San Gabriel Dip extra work space and vault shift.
#11	05/08/10	08/12/10	8	Segment 8 Transmission Line, Chino Hills, Phase I
#11 Mod	09/07/11	09/12/11	8	Increased grading limits for access road to towers M57-T1 and M24-T1A
#12	07/28/10	08/20/10	4, 5, 10	Segment 4, 5, 10 Contractor Yards
#13	07/19/10	08/24/10	8	Segment 8 Transmission Line, Phase 2 and 3
#14	08/25/10	09/03/10	4	Partial Transmission Line work associated with an LADWP outage

NTP #/ Permit	Date Requested	Date Issued	Segment #	Description
#15	08/13/10	09/10/10	5	Segment 5 Transmission Line
#15 Mod	03/08/11	03/14/11	5	Modification of FOC alignment
#15 Mod	06/16/11	06/21/11	5	Additional disturbance areas for grading limits in 5 locations.
#15 Mod	06/16/11	06/24/11	5	Temporary additional workspace near Tower 20.
#15 Mod	10/18/11	10/25/11	5	Relocate CT 68 and associated extra work space.
#16	08/30/10	09/13/10	4	Segment 4 Transmission Line
#17	08/10/10	09/24/10	7	Segment 7 Transmission Line
#17 Mod	01/13/11	02/25/11	7	Segment 7 66 kV wreck-outs.
#17 Mod	07/06/11	07/19/11	7	Access road additions, modifications, grading limit modifications, and OPGW splice sites.
#17 Mod	07/15/11	07/19/11	7	Removal of existing overhead ground wire and skywrap and replacement with fiber optical ground wire.
#18	10/13/10	10/15/10	7	Potrero Grande Contractor Yard
#19	10/29/10	11/12/10	4, 5, 10	Avenue F Contractor Yard
#20	10/08/10	11/30/10	10	Segment 10 Telecom
#20 Mod	04/19/11	05/06/11	10 Telecom	Changes to telecom route. ITP/BO acreage confirmation pending.
#20 Mod	06/17/11	06/24/11	10 Telecom	Additional trenching and vault placement along Oak Creek Road.
#21	11/18/10	12/09/10	6 & 11	Vincent North Material Yard.
#21 Mod	06/10/11	06/24/11	Vincent North MY	Telephone and IT installation at Vincent North Material Yard.
#22	11/18/10	12/09/10	6 & 11	Vincent South Material Yard.
CPUC Addendum	11/22/10	12/14/10	Vincent Substation	Section of road widening and riprap extension for the Vincent Substation expansion.
#23	12/22/10	01/11/11	6 & 11	Material Yard 75
#24	11/10/10	01/13/11	8	Segment 8 West, Phase 4 Transmission Line.
#24 Mod	06/15/11	06/20/11	8	Access road to M3-T3A and M48-T1, Segment 8 Phase 4.
#24 Mod	11/14/11	11/17/11	8	Lower 66 kV line at I-605 shoofly.
#24 Mod	11/30/11	12/15/11	8	Shift in M52-T2 structure location and associated extra work space and access roads.
#25	11/19/10	01/13/11	8	Fullerton (1) and Tonner Canyon (2) Contractor Yards. USFWS/CDFG survey requirements for Tonner Canyon required. Only Fullerton CY approved under NTP #25.
#26	06/22/10	01/14/11	9	Whirlwind Substation.
#27	01/03/11	03/08/11	10	Segment 10 Transmission Line.
#27 Mod	10/13/11	10/21/11	10	Relocation of Tower 39, in line shift.
#27 Mod	11/01/11	11/10/11	10	Additional guard pole and turning radii locations.
#27 Mod	11/14/11	11/21/11	10	Modify road near CT 25.
CPUC Addendum	03/01/11	03/17/11	9	Bridge construction to access Whirlwind Substation.
#28	04/22/11	05/06/11	6, 11	Construction Yard 58.



NTP #/ Permit	Date Requested	Date Issued	Segment #	Description
#29	05/06/11	05/13/11	6, 11	San Gabriel Yard.
#30	05/16/11	06/07/11	4, 5	Modifications to the Midway Vincent #3 T/L.
#31	06/24/11	06/30/11	11A	Segment 11A Transmission Line Goodrich to Mesa (off ANF)
#32	09/12/11 09/14/11. 10/13/11	11/09/11	6A	Towers 1-35 both private and ANF Lands
ANF PERMTTING – Segment 1, 6 & 11				
	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.
SUP		09/21/11	6	Construction of Segment 6 towers.

## 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 12/22/11)

Variance Request	Date Requested	Date Issued	Segment #	Description
Variance Requests, Segments 1-3				
<i>For Variance Request activity on Segments 1-3 prior to 2010, please see Table 2 in Weekly Reports 106-107.</i>				
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.
VR #68	04/09/10	04/12/10	1	Release restoration requirements on road to wreck-out tower 20-4 in Section 3.
VR #69	05/04/10	05/07/10	1	Contractor Yards surrounding Antelope Substation.

Variance Request	Date Requested	Date Issued	Segment #	Description
VR #69 MOD	07/29/10	08/02/10	1	Additional space for storage at Antelope Substation for material being delivered for Antelope, Vincent and Whirlwind substations.
VR #70	06/02/10	06/04/10	1	Additional disturbance areas adjacent to the pole erections for the 220 kV Sagebrush relocation work around the Antelope Substation.
VR #71	06/22/10	06/23/10	1	Change in construction work hours for work on the Sagebrush 220 kV transmission line.
VR #71 MOD #1	06/24/10	06/25/10	1	Expansion of construction hours for Sagebrush 220 kV T/L and foundation installation work at Antelope Substation.
VR #71 MOD #2	07/08/10	07/09/10	1	Further expansion of construction hours for Antelope Substation construction.
VR #71 MOD #3	11/18/10	11/19/10	1	Further expansion of construction hours for Antelope Substation construction.
Variance Requests, Segments 4-11				
VR #1	03/25/10	03/26/10	9-Vincent	Expand grading area of Vincent substation by 15 feet for temporary turnaround areas for equipment.
VR #2	05/25/10	05/27/10	7	Relocation of helicopter landing zone for Segment 7 telecommunications work.
VR #3	06/08/10	06/10/10	7	Clarification of Segment 7 Telecom construction operating hours and to work the weekend dates of June 12, 13, 19, and 20, within the City of Irwindale
VR #4	08/11/10	08/13/10	9-Vincent	Utilize a fire hydrant along an unpaved spur road and also place two 10,000-gallon elevated water storage tanks adjacent to the hydrant.
VR #5	08/20/10	08/20/10	7	Night work for Segment 7 Telecom
VR #6	08/26/10	08/26/10	8	Work on weekends for Segment 8 Telecom.
VR #7	09/10/10	09/16/10	8	New wire setup and pull sites for Segment 8 Phase 1
VR#8	09/16/10	09/16/10	8	Clarification of construction hours for Segment 8 Phase 1
VR #9	09/14/10	09/20/10	Yard 28 & Rancho Vista Yard	Hotwork (welding and cutting) at Yard 28 and Rancho Vista Yard.
Verbal	10/08/10	10/08/10	8, Phases 2 & 3	Wire sites for construction on Sunday, October 10.
VR #10	10/08/10	10/13/10	8	Additional Phase 2 & 3 wire sites.
VR #11	10/01/10	10/15/10	8	Relief from focused biological survey requirements because of restricted property access, Phase I.
VR #12	10/06/10	10/15/10	8	Additional Phase I wire sites.
VR #13	11/09/10	11/17/10	5	Additional wire stringing sites.
VR #14	11/17/10	11/19/10	8	Additional Shoofly pole in Tonner Canyon, Segment 8, Phase 1
VR #15	11/18/10	11/19/10	5	Additional guard poles between Highway 14 and Sierra Highway.

Variance Request	Date Requested	Date Issued	Segment #	Description
VR #16	11/12/10	11/19/10	5	Realign an existing access road at the southeastern corner of the Vincent Substation 500 kV expansion area to allow for the construction of the Segment 5 T/L.
VR #17	Revised 11/17/10	11/22/10	8	Additional 66 kV material storage near Rio Hondo and Chino Substations
VR #18	11/24/10	12/01/10	5	Continue use of two existing access roads that are approved under a TEWS
VR #19	Revised 11/23/10	12/01/10	5	Additional wire stringing sites.
VR #20	11/30/10	12/02/10	8	Revised alignment of an access road for safer access to tower sites.
VR #21	12/03/10	12/03/10	7/8	Remove fabric on chain-link fence surrounding Mesa MY because of graffiti
VR#22	11/22/10	12/07/10	7	Additional wire stringing sites.
VR #23	12/03/10	12/09/10	7	Ten additional access roads.
VR #24	12/17/10	12/20/10	8	Use of an existing concrete parking area/pad in Tonner Canyon as a helicopter landing zone and equipment staging and parking area, Segment 8, Phase I.
VR #25	12/17/10	12/20/10	8	Revision to the Structure Work Area for Tower M73-T2, Segment 8, East (Phase III).
VR #26	01/06/11	01/06/11	7	Revised disturbance areas in Montebello Hills
VR #27	01/12/11	01/13/11	7	Relocation of interset tower M54-T3a
VR #28	01/14/11	01/19/11	Yard	Grading at Vincent South Material Yard.
VR #29	01/14/11	01/19/11	Yard	Additional parking areas at Rodeo North and South Contractor Yards.
VR #30	01/28/11	01/28/11	Yard	Grading at Vincent North Material Yard.
VR #31	02/04/11	02/04/11	7, 8	Revised 66 kV underground alignment along Edison Avenue in the City of Chino
VR #32	02/04/11	02/07/11	Whirlwind	Temporary offsite equipment loading/unloading and parking area.
VR #33	02/08/11	02/10/11	8	Access route to Tower M0-T6.
VR #34		02/11/11	Whirlwind	Temporary concrete slab within work area (VR #32).
#35	02/14/11	02/14/11	8	Access to additional wire setup sites between Oaks Avenue and Tower M46-T7b.
#36	02/14/11	02/15/11	10 Telecom	Move two wood poles approximately 5 feet out of the drainage along Oak Creek Road.
#37	02/19/11	02/24/11	6	Modification to Yard 75 boundaries.
#38	02/23/11	02/25/11	8	Expansion of wire site for Phase 4 work.
#39	03/01/11	03/03/11	All Yards	Replace fence fabric screening with slats for safety reasons during high wind events.
#40	03/02/11	03/03/11	5	Additional access road to Construct 29.
#41	03/04/11	03/08/11	5	Additional access road improvements.
#42	03/04/11	03/08/11	4	Additional access road improvements.
#43	03/03/11	03/10/11	8	Additional access to Tower M2-T2.

Variance Request	Date Requested	Date Issued	Segment #	Description
#44	03/16/11	03/18/11	8	Tower M2-T5 and access road shift within SCE ROW
#45	03/22/11	03/25/11	5	Soil Stockpile areas at three locations
#46	03/25/11	04/04/11	7	Temporary disturbance areas for underground disturbance, 66 kV
#47	04/05/11	04/06/11	8	Wire Setup Sites for Tower M2-T2.
#48	04/06/11	04/08/11	5,8	Start of construction prior to Los Angeles County Public Works grading permit issuance.
#49	04/06/11	04/08/11	8	Extended work hours on Segment 8, Phase 2
#50	04/05/11	04/13/11	8	Turnouts along Sanome Mountain Way.
#51	03/29/11	04/13/11	8	Water bar repair and construction.
#52	04/11/11	04/14/11	7	Additional access to Interset M54-T3A
#53	04/05/11	04/15/11	5, 8	Permission to build slope stabilization Towers prior to L.A. County Public Works Permit
#54	04/14/11	04/18/11	5	Soil stockpile area near Tower 27
#55	04/12/11	04/20/11	4	Relocate two towers and associated access roads and disturbance areas within ROW.
#56	04/13/11	04/20/11	Yards	Installation of temporary power poles to provide power to Vincent North and Vincent South Material Yards.
#57	04/07/11	04/25/11	7	Additional improvements to Van Tassel Motorway.
#58	05/02/11	05/05/11	8	Tower M48-T4 access road.
#59	05/06/11	05/09/11	8	Segment 8 Phase 1, M49-T1 and M59-T2 additional parking, staging and turn-around areas.
#60	04/25/11	05/13/11	7	Wire Setup Site expansions.
#60 Mod	04/25/11	06/06/11	7	Additional Wire Setup Site 7.1a.
#61	05/11/11	05/13/11	5	Additional access off Godde Hill Road
#62	05/12/11	05/18/11	7	Soil stockpile area near M27-T3
#63	05/19/11	05/23/11	8	Change to previously approved access road at M61-T1, Segment 8 Phase 1.
#64	05/23/11	06/06/11	8	Extra work space to accommodate wire tagging areas.
#65	05/25/11	06/06/11	8	Extra parking, staging and turnaround at Tower M48-T3.
#66	05/26/11	06/06/11	5	Elizabeth Lake access road.
#67	05/27/11	06/06/11	8	Additional workspace near M23-T2A in Segment 8 phase 1.
#68	05/10/11 Revised 06/14/11	06/24/11	All	Allow continued use of approved TEWS access roads if nesting birds subsequently move in.
#69	06/14/11	CPUC Review	All	Variance to MM AQ-1d
#70	06/14/11	06/30/11	5	Change in pulling site locations at CT 22, 43, 51a & 57.
#71	06/27/11	07/06/11	8	Extra workspace at M57-T2 and M57-T3.
#72	07/01/11	07/08/11	8	Additional workspace at the I-605 Shoofly area
#73	06/01/11	07/08/11	10	Shift in Tower 43 Wire Setup Site. Additional information provided 07/07.

Variance Request	Date Requested	Date Issued	Segment #	Description
#74	07/22/11	07/28/11	11A	Modification of guard pole sites along Segment 11A.
#75	07/25/11	08/03/11	11A	Equipment AQ-1d compliance.
#76	07/18/11 Revised 07/25/11	08/03/11	5	Relocation of a Wire Stringing Site near Tower 34. Inquiry sent 07/27.
#77	07/27/11	08/03/11	4	Two additional Wire Stringing Sites near Towers 35 and 51. Inquiry sent 08/01.
#78	08/03/11	08/04/11	8	Relief from focused biological survey requirements because of restricted property access, Phase I. CDFG approval provided.
#79	08/06/11	08/11/11	4	Guard pole site near Tower 52.
#80	08/10/11	08/12/11	10	Roadway reclassification and modifications near Tower 83.
#81	08/12/11	08/18/11	10	Roadway reclassification and modifications near Towers 48 and 49.
#82	08/18/11	08/30/11	4	Wire setup site (WSS) relocations and new WSS and overland travel routes. Inquiry sent 08/22; response submitted 08/26
#83	07/26/11	08/30/11	8	MA1-T2 and MA1-T4 access road.
#84	08/30/11	09/01/11	8	M54-T1 and M54-T2 Access road and staging area.
#85	07/15/11	09/12/11	8	Additional guard structure sites at Fullerton Road and WSS at M51-T2, M51-T3, M50-T1, M45-T4 and M6-T2. Gnatcatcher acreages pending.
#86	09/02/11	09/12/11	4	Two guard pole sites
#87	09/09/11	09/12/11	10	Use of existing roads between 90 <sup>th</sup> street west and tower 6
#88	09/15/11	09/20/11	4, 5 & 10	Allow for the use of six water trucks that don't meet the requirements of MM AQ-1d.
#89	09/15/11	09/22/11	10	Increased turning radii @ CT 67 & 68 and road improvement at CT 74.
#90	09/26/11	10/03/11	5	Extra work space for CT 30.
#91	09/28/11	10/03/11	5	Addition of mats @ CT 45.
#92	10/01/11	10/03/11	4	Segment 4 access road use near Tower 31.
#93	09/30/11	10/05/11	5	Additional Disturbance area near Tower 55A.
#94	09/28/11	10/12/11	8	Widen the curve of an access road leading to Structure M56-T4.
#95	09/30/11	10/12/11	5	Additional disturbance areas at Towers 19, 22, and 25.
#96	10/12/11	10/17/11	8	Guard structure site and access road to Structure MA1-T3.
#97	10/06/11	10/21/11	8	Telecom wire sites at Rose Hills.
#98	10/22/11	11/04/11	4	Additional turning radii and road reclassification associated with Tower M73-T3AX.
#99	10/20/11	11/01/11	8	Extra Workspace for topsoil salvage at M56-T3.
#100	09/28/11	11/04/11	8	Twenty-four staging and turnaround areas.
#101	11/02/11	11/04/11	5	Additional work space at CT 30, 51a and 61.
#102	11/02/11	11/09/11	5	Extra Workspace near Tower 18.

Variance Request	Date Requested	Date Issued	Segment #	Description
#103	11/04/11	11/09/11	5	Additional guard pole sites.
#104	11/02/11	11/09/11	8	Use of 605 Shoofly as Contractor Yard.
#105	11/06/11	11/14/11	5	Additional workspace at CT 6, 28B, 44, 68 and M113-T3.
#106	11/09/11 & 11/10/11	11/17/11	5	Additional workspace and roadways at CT30.
#107	11/16/11	11/18/11	8	Use of Contractor yard previously approved as TEWS, in Chino.
#108	11/18/11	11/22/11	5	Extra work space near CT 50, 51a and 55.
See NTP #24 Mod	11/30/11	12/15/11	8	Structure shift at M52-T2.
	12/19/11	Under review	8	Access roads and structure additions and modifications.
	12/22/11	Under review	4	Additional wire stringing site outside of Antelope Substation.

**TABLE 3**  
**TEMPORARY EXTRA WORKSPACE (TEWS) REQUESTS**  
(Updated 12/22/11)

TEWS Request	Date Requested	Date Approved	Segment #	Description
TEWS, Segments 1-3				
<i>For TEWS activity on Segments 1-3 prior to 2010, please see Table 3 in Weekly Reports 106-107.</i>				
TEWS, Segments 4-11				
#1	09/30/10	09/30/10	7	Re-phasing work at a tower not previously identified on Rio Hondo–Amador-Jose-Mesa 66 kV
#2	10/08/10	10/08/10	4	Park a boom truck on LADWP access road during the outage
#3	10/12/10	10/12/10	8	Use a wire setup site not previously identified on Chino–Mira Loma No. 1
#4	10/20/10	10/20/10	5	Extra space from wire truck parking near Vincent Substation.
#5	10/21/10	10/21/10	7	Use a site not previously identified for staging of equipment and materials at Tower M54-T3a.
#6	11/01/10	11/01/10	5	Use of an existing SCE access road.
#7	11/01/10	11/03/10	5	Use of an existing road (Parkwood Drive).
#8	11/02/10	11/02/10	8	Use a site not previously identified for vehicle parking and as a helicopter landing zone.
#9	11/30/10	12/01/10	5	Use 8 existing spur roads as extra parking and turnaround areas
#10	12/02/10	12/02/10	7	Additional access road for on Rio Hondo–Anita No. 2 66 kV.
#11	12/08/10	12/08/10	5	Use an existing spur road near Tower 29, north of Elizabeth Lake Road.

TEWS Request	Date Requested	Date Approved	Segment #	Description
#12	12/09/10	12/09/10	7	Additional access road near Towers M41-T1 through M41-T3
#13	12/14/10	12/14/10	8	Access road to Tower M0-T6.
#14	01/10/11	01/10/11	8	Access road to Tower M2-T5
#15	01/11/11	01/11/11	8	Additional parking area in Tonner Canyon.
#16	01/17/11	01/17/11	5	Additional parking and turnaround area near Tower 54.
#17	01/18/11	01/18/11	7	Use of a dirt road for access to M41-T4 wire sites.
#18	02/04/11	02/04/11	7	Additional access road to Tower M54-T3a.
#19	02/11/11	02/11/11	5	Extension for use of mudpit road north of Elizabeth Lake Road.
#20	02/15/11	02/25/11	7	Crane parking on Brookridge Road in the City of Duarte.
#21	03/02/11	03/02/11	8	Additional parking within Tonner Canyon adjacent to M57-T1
#22	03/03/11	03/03/11	8	Additional parking within Tonner Canyon adjacent to M57-T3
#23	03/03/11	03/03/11	7	Additional parking for a crane along Greenbank and Brookridge Roads in the City of Duarte
#24	03/25/11	03/25/11	8	Additional space within Chino Sub for wire stringing.
#25	03/31/11	03/31/11	5	Additional parking on SCE roads near tower 50.
#26	04/11/11	04/11/11	8	Additional access within Pathfinder Park to Tower M9-T1B.
#27	04/12/11	04/14/11	8	Mid-span access between M3-T5 and M4-T1 to install sleeves.
#28	04/07/11	04/07/11	5	Additional parking/staging area adjacent to Tower 54; original TEWS had expired.
#29	04/07/11	04/07/11	5	Use of private dirt road so that Woodward Brothers could remove their drill; cannot cross Amargosa Creek due to flow.
#30	05/22/11	05/26/11	5	Mat placement to protect drainage pipes along access road at Parkwood Drive.
#31	06/08/11	06/09/11	8	Additional access at the 605 Shoofly.
#32	05/23/11	06/06/11	5	Use of spur road near Tower 26.
#33	06/07/11	06/09/11	5	Extended original TEWS for spur road near Tower 54.
#34	06/13/11	06/14/11	11	Additional parking outside of San Gabriel Yard
#35	06/28/11	06/28/11	5	Additional staging near Tower 44.
#36	07/08/11	07/11/11	5	Additional staging area near Tower 51.
#37	07/20/11	07/20/11	8	Additional access at Rooks Road
#38	07/20/11	07/20/11	8	Additional stage area at M60-T1
#39	07/27/11	07/27/11	8	Additional staging and turnaround between M54-T1 and M54-T2.
#40	08/01/11	08/01/11	5	Use of spur road for additional parking and staging near Tower 52.

TEWS Request	Date Requested	Date Approved	Segment #	Description
#41	08/08/11	08/12/11	5	Use of disturbed area for parking and equipment staging near Tower 30.
#42	08/10/11	08/10/11	8	New access to Tower MA1-T3
#43	08/12/11	08/12/11	8	Additional guard pole site on Fullerton Road
#44	08/12/11	08/12/11	11	Extra space at guard pole site on Del Mar Avenue
#45	08/12/11	08/12/11	8	Access to distribution poles along Archibald Avenue
#46	08/08/11	08/12/11	5	Use of disturbed area for parking and staging of equipment and vehicles.
#47	08/18/11	08/18/11	8	Additional parking at M64-T4
#48	08/19/11	08/19/11	11	Overland access to Tower M14-6
#49	10/13/11	10/13/11	8	Contractor yard, turning area and staging for 66 kV underground work in Ayala Park.
#50	11/07/11	11/14/11	5	Use of three existing spur roads for additional parking near Tower 68
#51	11/22/11	11/22/11	8	Use of an existing, paved road for additional access on Segment 8, Phase 3.

#### NON-COMPLIANCES & INCIDENTS

Table 4 provides a summary of CPUC Non-Compliance Reports and Project Memorandums.

**TABLE 4**  
**CPUC NON-COMPLIANCE REPORTS & PROJECT MEMORANDA**  
(Updated 12/22/11)

Type	Date	Location	Description
<b>NON-COMPLIANCE REPORTS &amp; PROJECT MEMORANDA, SEGMENTS 1-3</b>			
<i>For CPUC Non-Compliance Reports &amp; Project Memoranda activity on Segments 1-3 prior to 2010, please see Table 4 in Weekly Reports 106-107.</i>			
<b>NON-COMPLIANCE REPORTS &amp; PROJECT MEMORANDA, SEGMENTS 1-11</b> (January 2010 thru the present)			
CPUC Non-Compliance Reports (NCR):			
NCR #1	Issued 02/24/11 Withdrawn 03/24/11	Project-wide	No notification of wildlife entrapment/mortality from bird deterrent netting.
NCR #2	09/13/11	Segment 7, 66 kV	TRTP construction activity occurring in the San Gabriel Junction area prior to the installation of exclusionary staking for sensitive resource areas and without resource monitoring.
SCE Level 1	11/29/11	Segment 5	Fiber roll breached and erosion occurred
SCE Level 1	11/30/11	Segment 5	Micro-trash
SCE Level 1	12/02/11	Segment 10	Use of non-approved road
SCE Level 2	12/02/11	Segment 10	Vehicle got outside the approved access road limits
SCE Level 1	12/03/11	Segment 10	Vehicle parked on a non-approved access road



<b>Type</b>	<b>Date</b>	<b>Location</b>	<b>Description</b>
SCE Level 1	11/28/11	Segment 7	Crews accessed tower site from unapproved access road
SCE Level 1	11/29/11	Segment 8, Phase 1	Crane parked outside of access road limits
SCE Level 1	12/01/11	Segment 8, 66 kV	Trackout
SCE Level 1	12/01/11	Segment 8, 66 kV	Vegetation removed was left on-site, posing a fire hazard.
SCE Level 1	11/29/11	Segment 7, 66 kV	SCE crew mobilized to work areas not scheduled. Work began without a sweep.
<b>CPUC Project Memoranda (PM)</b>			
PM #1	04/27/10	Segment 3A	Delivery of equipment to Tower 43 within an ESA without monitors present.
PM #2	06/23/10	Segment 8 West CY	Vegetation clearing without preconstruction biological or clearance surveys within TRTP right-of-way.
PM #3	02/16/11	Project-wide	No notification provided on 10 separate Level 0 incidences.
PM #4	02/16/11	Segment 7	Construction crews entered area prior to sweep being field validated by CPUC EM.
PM #5	09/07/11	Segment 7	Use of unapproved area for staging material near Greenwood and Saturn Ave, Monterey Park.

## PROJECT PHOTOGRAPHS



**Figure 1:** TSP foundation drilling along Oak Creek Road, Wilderness Line, Antelope Transmission Segment.



**Figure 2:** TSP erection along Oak Creek Road, Wilderness Line, Antelope Transmission Segment.



**Figure 3:** Crux conducting preliminary digging at Tower 68, Segment 5.



**Figure 4:** H&M steel crew erecting Tower 3, Segment 10.



**Figure 5:** BMP repair at Tower 50 (jute netting was installed), Segment 5.



**Figure 6:** SCE crews install new insulators within Montebello Hills.



**Figure 7:** Crews unload marker balls to be hung on Segment 7 spans.



**Figure 8:** Crews load a rebar cage at M39-T4, Segment 7.



**Figure 9:** A water truck at Tower M54-Ta, Segment 7.



**Figure 10:** A silt fence at San Gabriel Junction inside the dripline of an oak tree.