



30423 Canwood Street, Suite 215, Agoura Hills, CA 91301-4316  
Tel. 818-597-3407, Fax 818-597-8001, [www.aspeneg.com](http://www.aspeneg.com)

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

**To:** John Boccio, Project Manager, CPUC  
**From:** Vida Strong, Aspen Project Manager  
**Date:** July 5, 2011  
**Subject:** Weekly Reports 178, June 19 to June 25, 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 & 5, 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. Construction of Segments 1, 2, and 3A have been completed. Construction of Segment 3B, from Windhub Substation to and including Highwind Substation, has not started and no schedule has been developed by SCE. Focused surveys for desert tortoise and Mohave ground squirrel are underway.
2. Construction activities at the Antelope Substation included conductoring, breaker assembly, and filling transformers with oil. The below-grade construction and MEER building is 100% complete.
3. 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 remains active (i.e., soil from the expansion is being added to the pile) and is now being partially used to backfill the tower footing removal work on Segment 5. It may be potentially used as fill in the new Whirlwind Substation. An SCE office trailer for TRTP 4-11 has been installed adjacent to the spoil pile.
4. Construction activities at the Windhub Substation focused on steel and conductoring work. The 220 kV steel erection is almost complete. Breaker and conductor work continued. Below-grade foundations and conduit is 98% complete. Transportation of materials to Whirlwind Substation is ongoing.
5. Material for Segment 3B and the future Whirlwind Substation is being stored at the Highwind Yard.
6. Restoration on Segment 1 has been recently completed, and is still being maintained. The annual report for Segment 1 has been submitted. Quarterly reports for the activity are also expected this year.



7. 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 June 20<sup>th</sup>, a security guard for the Antelope Substation was observed parked in an ESA buffer while a biologist was conducting a morning sweep of the area.
2. BMPs installed during construction of Segment 1 were observed to be in disrepair. SCE has been notified of the location of the damaged silt fencing.
3. 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. SCE is also reviewing the need for a modified Streambed Alteration Agreement for the effort.

One Level 2 SCE NCR was issued during the reporting period. 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. In the Vincent Substation expansion area, NRG continued work on the circuit breakers. Mission Paving will be paving the road around the expansion area over the next couple weeks. Inside the Substation, Contra Costa is working on foundations, ground grid, and conduit in Position 1. Work is completed for the Midway to Vincent No. 2 outage.
2. Segment 4: KV Structures (drilling contractor) continued drilling, setting rebar cages using a spider jig for stub angle placement, and concrete pouring at Towers 1 and M74-T1X (see Figure 1). The Revert polymer is not currently being used in the drilling process. KV Structures is now using a slurry method. H&M steel crews continued tower assembly and erection work at various locations throughout the Segment. BMP's were maintained at various locations.
3. Segment 5: Woodward Brothers (drilling contractor) conducted clean-up at Towers 18, 20, 21, and 24 and demobilized from the project until additional work locations become available. H&M steel crews continued tower assembly and erection work at various locations throughout the Segment (see Figure 2). Removal of old steel and existing foundations from the 220 kV towers continued (see Figure 3). Wreck-outs of the 220 kV towers are not yet complete.
4. Segment 10: KV Structures (drilling contractor) continued drilling, setting rebar cages using a spider jig for stub angle placement, and concrete pouring at Towers 78, 79, 80, 81, and 82. H&M steel crews continued tower assembly and erection at Towers 81, 83, 84, and 85. Moore Fence Company continued tortoise fence installation along General Petroleum Road and the tower disturbance sites. BMP's were installed along spur roads and tower disturbance sites. H&H Grading continued

grubbing of disturbance sites and road improvement work along General Petroleum Road. Cut vegetation from General Petroleum Road is being removed from the road.

5. Segment 10 Telecom: Work continued on the 12 kV portion of the Segment from Whirlwind Substation to Gaskell Road. Tidwell Excavation completed slurry placement in the manhole on the east side of 170<sup>th</sup> Street and conducted clean-up.
6. Whirlwind Substation: Work included drilling disconnects and bus supports, and grading in the 500 kV area. The 220 kV steel dead ends and disconnect switches are being erected by PAR crews. Conductor stringing occurred in the 220 kV area. Cattracs continued riprap placement in the trap channel and spreader. The southwest corner of the Spill Prevention, Countermeasure and Control (SPCC) pond is being worked on. Work continued on the roof and in the basement of the MEER building. Tidwell continued work for the station light and power into the substation.

#### **Environmental Compliance:**

1. The CPUC EM and Burns & McDonnell Environmental Coordinator (EC) verified disturbance staking and ESA flagging for the Midway to Vincent tower upgrades on Segments 4 & 5. Two locations on Segment 5 were not staked due to active bird nest buffers. Approval was provided to SCE.
2. The CPUC EM verified the clearance sweep results for upcoming work at the Rosamond Substation as part of Segment 10 Telecom. Approval was provided to SCE.
3. The Revert polymer mixture of soil and water was cleaned up, stockpiled on plastic sheeting and covered at Tower M74-T1X on Segment 4. Ninyo and Moore took soil samples from the stockpile which will be sent offsite for testing. SCE is awaiting results.
4. The CPUC EM expressed concern about fugitive dust on Segment 10 to the SCE EC and CH2MHill Environmental Monitor. The 15 mph speed limit is being abided by project personnel and water trucks are spraying for dust, but due to the soil type and condition, dust is still being generated.
5. The CPUC EM expressed concern in regards to the existing road width on two Segment 10 access roads. Information and photos were provided to the SCE and Burns & McDonnell ECs.
6. During the reporting period, an issue developed with a cultural site being located in a turning radius of a Segment 4 access road. SCE informed Burns & McDonnell that the turning radius cannot be established due to the cultural site. Further testing of the cultural site will be conducted next week to see if it can be reclassified.
7. SCE requested to remove an inactive raptor nest from wreck-out Tower M64-T1 on Segment 5.
8. SCE submitted a memorandum to the CPUC on June 21<sup>st</sup> explaining the need for a night patrolman in non-ITP areas of the project due to theft of steel parts from the right-of-way. The memorandum included responses from Los Angeles County, Kern County, and the City of Palmdale. The majority of Tower 34 on Segment 5 was stolen from the disturbance site. Patrols in areas covered under the ITP or Biological Opinion had been requested to both resource agencies since night work was not authorized under both permits. SCE received CDFG and USFWS concurrence for night patrol work with certain conditions.
9. 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.

10. Special-status species observed during the subject period by Biological Monitors included loggerhead shrike, desert kit fox, American badger, LeConte's Thrasher, and long-eared owl.
11. Six new nests discovered during the subject period included lesser nighthawk, starling, western kingbird, cactus wren, and burrowing owl. SCE received CDFG concurrence on buffer reductions for eleven nests.

Three Level 1 SCE NCRs and one Level 2 NCRs were issued during the subject period for TRTP Segment 4, 5 and 10 construction activities (see Table 4). 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 Tables 4 and 5.

### **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 September 2011. Subsequently, construction is expected to begin in September/October 2011.
2. Vincent North and South Material Yards: During the subject period, material delivery occurred.
3. Site preparation work was completed at Material Yard 75 South and some materials were delivered.
4. Site preparation work continued at San Gabriel Yard, with vegetation removal within the yard and the widening of the front entrance gate. Delivery of some materials also occurred.
5. Weed abatement activities continued on Segments 6 and 11. Approximately 35 acres of weed abatement has occurred to date.

### **Environmental Compliance**

1. Watering for dust control occurred at the Vincent North and South Material Yards.
2. An SCE Level 1 non-compliance was issued on June 20<sup>th</sup> when the crew doing site preparation at the San Gabriel Yard entered the yard without it being swept by a Biological Monitor.
3. A 500-foot Environmentally Sensitive Area (ESA) buffer affecting Yard 75 South and a portion of Segment 7 T/L was established on June 22<sup>nd</sup> for a least Bell's vireo (LBV) territory. Work can proceed within the buffer; however, all construction noise must be less than 60 dBA at the edge of the LBV territory.
4. Special-status species observed during the subject period by Biological Monitors included least Bell's vireo and loggerhead shrike.

One Level 1 SCE NCR was issued during the subject period for TRTP Segment 6 and 11 construction activities. No CPUC Project Memoranda or NCR's were issued for Segments 6 and 11 during this reporting period. Non-Compliance activities for the project date are summarized in Tables 4 and 5.

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

### Summary of Activity

1. Segments 7 & 8, 66 kV: During the subject period, Wilson crews continued work on the overhead portion of the Rio Hondo–Amador-Jose-Mesa line. Crews continued transferring the 12 kV circuits and the 66 kV circuits. SCE crews continued pulling conduit along Durfee Avenue in the City of South El Monte and continued pulling conduit on the Rio Hondo–Anita No. 2 line at the Rio Hondo Substation. Additionally, SCE crews began setting tubular steel poles (TSPs) behind Mesa Substation.
2. Segment 7: Wilson continued assembly on two towers within the Huntington Yard in the City of Duarte (see Figure 4). DCX and Tri-State continued drilling at three tower locations. Additionally, Wilson crews mowed tower sites and wire setup sites to keep environmental surveys active.
3. Segment 8, Phase 1: Wilson crews mowed and installed BMPs at tower sites and wire setup sites to keep environmental surveys active. Additionally, Wilson crews set three TSPs (see Figure 5). Tri-State continued drilling at two pole sites. DCX began grading at Tower M61-T1. No tower construction occurred in Tonner Canyon, City of Industry, due to biological resource restrictions (see #1 below).
4. Segment 8, Phase 2: Wilson crews strung wire within the Chino and Mira Loma Substations on the Chino–Mira Loma No. 2 line.
5. Segment 8, Phase 3: No work occurred during the subject period.
6. Segment 8, Phase 4: DCX began drilling at one tower location. Wilson crews began work at the Interstate 605 (I-605) Shoofly, removing conductor across the I-605 and installing Shoofly poles (see Figure 6).

### Environmental Compliance:

1. The use of Tonner Canyon Road within Tonner Canyon, City of Industry (Segment 8, Phase 1), continues to be restricted for project access due to biological survey requirements in project permits conflicting with property rights and access constraints.
2. Two desert cottontail rabbits were found on June 20<sup>th</sup> under bird deterrent netting covering a piece of equipment at the I-605 Shoofly, Segment 8 Phase 4. The rabbits were released unharmed.
3. An SCE Level 1 non-compliance was issued when a coachwhip snake was discovered on June 20<sup>th</sup> caught in bird deterrent netting at Tower M30-T3, Segment 7. Two ICF biologists cut the snake out of the netting and relocated it approximately 1000 feet from the work site. When the relocation site was checked later, no snake could be found, indicating the snake was not mortally harmed by the netting.
4. A 500-foot ESA buffer affecting Yard 75 South and a portion of Segment 7 T/L was established on June 2<sup>nd</sup> for a least Bell's vireo (LBV) territory. Work can proceed within the buffer; however, all construction noise must be less than 60 dBA at the edge of the LBV territory.
5. During the subject period, Wilson environmental staff removed all the bird deterrents from Segment 8, Phase 2.
6. The CPUC EM was notified on June 24<sup>th</sup> of a concrete spill on Segment 7 at Tower M28-T3. Approximately 5 gallons of concrete waste and several additional gallons of wash water were released onto the asphalt parking lot adjacent to the tower site. The release was the result of concrete truck operator error while attempting to clean and reclaim concrete waste. The concrete waste and wash water did not impact any nearby waterways or wash into any storm drains.

7. ICF Biologists continue to collapse California ground squirrel burrows along Edison Avenue in the City of Chino as part of the CDFG approved burrowing owl relocation program that commenced on February 1<sup>st</sup>.
8. The CPUC EMs received nine preconstruction surveys and sweeps for construction on both Segments 7 and 8 during the subject period. The CPUC EM noted concerns with disturbance area staking and management for mariposa lily and southwestern pond turtle.
9. Special-status species observed during the week by Biological Monitors included yellow warbler, peregrine falcon, least Bell's vireo and yellow-breasted chat.
10. Bird nesting clearance surveys are being conducted in advance of construction as required by adopted mitigation measures. Forty-nine new nests discovered during the subject period on Segments 7 and 8 included: Cassin's kingbird nests, killdeer nests, house wren nests, burrowing owl nests, bushtit nests, killdeer nests and northern mockingbird nests. CDFG provided concurrence of buffer reductions for all of the nests.

Three SCE Level 1 non-Compliance Reports were issued during the subject period (see Table 4). No CPUC Non-Compliances or Project Memoranda were issued during the subject period for Segment 7 and 8 construction activities. Non-Compliance activities for the project to date are summarized in Tables 4 and 5.

**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 07/05/11)

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.

NTP #/ Permit	Date Requested	Date Issued	Segment #	Description
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.
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	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	8	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	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.
#11	05/08/10	08/12/10	8	Segment 8 Transmission Line, Chino Hills, Phase I
#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.
#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.
#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	1/11/11	6 & 11	Material Yard 75
#24	11/10/10	1/13/11	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.
#25	11/19/10	1/13/11	8	Fullerton (1) and Tonner Canyon (2) Contractor Yards. USFWS/CDFG survey requirements for Tonner Cys required. Only Fullerton CY approved under NTP #25.
#26	06/22/10	1/14/11	9	Whirlwind Substation.
#27	01/03/11	03/08/11	10	Segment 10 Transmission Line.
CPUC Addendum	03/01/11	03/17/11	9	Bridge construction to access Whirlwind Substation.
#28	04/22/11	5/6/11	6, 11	Construction Yard 58.
#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)
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



NTP #/ Permit	Date Requested	Date Issued	Segment #	Description
	09/27/07	12/14/07	1	Geotechnical testing – 23 geotechnical borings are authorized on National Forest lands to provide additional information that will be used in the design of the transmission towers. Notice to proceed was signed Jan 31 to begin work the week of Feb. 3
		07/14/08	1	Removal of the 66 kV conductor within the ANF, from tower 7-3 (near southern Forest boundary) to 16-3 (near Bouquet Reservoir) Phase I.
		09/23/08	1	Removal of the 66 kV conductor within the ANF, Phase II
		10/23/08	1	Construction of the 500 kV transmission line and wreck-out of the 66 kV towers in the ANF, Section 2.

## VARIANCE & TEMPORARY EXTRA WORKSPACE REQUESTS

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

**TABLE 2**  
**VARIANCE REQUESTS**  
(Updated 07/05/11)

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.
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.

Variance Request	Date Requested	Date Issued	Segment #	Description
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.
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	12/3/10	12/03/10	7/8	Remove fabric on chain-link fence surrounding Mesa MY because of graffiti

Variance Request	Date Requested	Date Issued	Segment #	Description
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	1/6/11	1/6/11	7	Revised disturbance areas in Montebello Hills
VR #27	1/12/11	1/13/11	7	Relocation of interset tower M54-T3a
VR #28	01/14/11	1/19/11	Yard	Grading at Vincent South Material Yard.
VR # 29	01/14/11	1/19/11	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	2/14/11	2/14/11	8	Access to additional wire setup sites between Oaks Avenue and Tower M46-T7b.
#36	2/14/11	2/15/11	10 Telecom	Move two wood poles approximately 5 feet out of the drainage along Oak Creek Road.
#37	2/19/11	2/24/11	6	Modification to Yard 75 boundaries.
#38	2/23/11	2/25/11	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.
#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	04/6/11	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

Variance Request	Date Requested	Date Issued	Segment #	Description
#53	04/5/11	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.
	06/01/11	Under Review	10	Shift in Tower 43 Wire Setup Site. CDFG/USFWS concurrence pending.
	06/27/11	Under Review	8	Extra workspace at M57-T2 and M57-T3.

**TABLE 3**  
**TEMPORARY EXTRA WORKSPACE (TEWS) REQUESTS**  
(Updated 07/05/11)

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	10/8/10	10/8/10	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	11/1/10	11/1/10	5	Use of an existing SCE access road.
#7	11/1/10	11/3/10	5	Use of an existing road (Parkwood Drive).
#8	11/2/10	11/2/10	8	Use a site not previously identified for vehicle parking and as a helicopter landing zone.
#9	11/30/10	12/1/10	5	Use 8 existing spur roads as extra parking and turnaround areas
#10	12/2/10	12/2/10	7	Additional access road for on Rio Hondo–Anita No. 2 66 kV.
#11	12/8/10	12/8/10	5	Use an existing spur road near Tower 29, north of Elizabeth Lake Road.
#12	12/9/10	12/9/10	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	1/10/11	1/10/11	8	Access road to Tower M2-T5
#15	1/11/11	1/11/11	8	Additional parking area in Tonner Canyon.
#16	1/17/11	1/17/11	5	Additional parking and turnaround area near Tower 54.
#17	1/18/11	1/18/11	7	Use of a dirt road for access to M41-T4 wire sites.
#18	2/4/11	2/4/11	7	Additional access road to Tower M54-T3a.
#19	2/11/11	2/11/11	5	Extension for use of mudpit road north of Elizabeth Lake Road.
#20	2/15/11	2/25/11	7	Crane parking on Brookridge Road in the City of Duarte.
#21	3/2/11	3/2/11	8	Additional parking within Tonner Canyon adjacent to M57-T1
#22	3/3/11	3/3/11	8	Additional parking within Tonner Canyon adjacent to M57-T3

TEWS Request	Date Requested	Date Approved	Segment #	Description
#23	3/3/11	3/3/11	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	3/31/11	3/31/11	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

**NON-COMPLIANCES & INCIDENTS**

Table 4 provides a summary of CPUC and SCE reported compliance incidents. A summary of CPUC Non-Compliance Reports and Project Memorandum is provided in Table 5.

**TABLE 4**  
**OTHER COMPLIANCE INCIDENTS**  
 (Updated 06/25/11)

Description	Type <sup>1</sup>	Date	Location
<b>OTHER COMPLIANCE INCIDENTS, SEGMENTS 1-3</b>			
<i>For Other Compliance Incident activity on Segments 1-3 prior to 2010, please see Table 4 in Weekly Reports 106-107.</i>			
<b>OTHER COMPLIANCE INCIDENTS, SEGMENTS 1-11 (January 2010 thru the present)</b>			
<b>Approved work areas &amp; pre-construction surveys/sweeps:</b> Entry prior to CPUC approval, entry prior to CPUC EM clearance (appropriate flagging/fencing in place), equipment/materials or parking outside of approved disturbance areas,	CPUC	04/20/10	Rancho Vista CY
		06/03/10	Antelope
		10/19/10	Seg 7/8, 66 kV
		11/15/10	Segment 8
		01/26/11	Segment 8
	Level 0		
	Level 1	09/21/10	Mesa Yard
		10/01/10	Racetrack CY
		10/09/10	Segment 4 (2)
		12/06/10	Segment 8
		01/07/11	Segment 5
		01/12/11	Segment 4
		02/11/11	66 kV
		02/12/11	Segment 8
		02/12/11	Segment 8
		02/14/11	Segment 8(2)
		03/07/11	Whirlwind
		03/11/11	Segment 8
		03/15/11	Whirlwind
		03/15/11	Racetrack
		03/16/11	Segment 4
		03/29/11	Segment 5
		04/02/11	Segment 5
		04/25/11	Segment 5
		04/25/11	Whirlwind
		04/27/11	Vincent N MY
		04/28/11	Segment 8
05/05/11		Segment 5	
05/06/11	Segment 4		
06/02/11	Segment 5 (2)		
06/09/11	Segment 7		
06/13/11	Segment 5 (2)		
06/16/11	10 Telecom		
06/16/11	Segment 7		
06/16/11	Segment 8		
06/20/11	Segment 5		

Description	Type <sup>1</sup>	Date	Location	
	Level 2	06/13/10 01/12/11 02/16/11 02/17/11 02/18/11 02/18/11 02/19/11 02/21/11 02/21/11 02/25/11 02/25/11 02/25/11 02/25/11 03/09/11 03/10/11 03/15/11 03/16/11 04/01/11 04/06/11 05/04/11 05/14/11 06/01/11 06/02/11	Seg 7, Telecom Segment 4 Segment 7 Segment 7 Segment 7 Segment 7 66 kV Segment 7 Segment 4 Segment 4 Segment 4 Segment 4 Segment 4 Segment 4 Segment 5 Segment 5 Segment 4 Segment 4 Segment 4 Segment 8 Segment 4 Segment 4 Segment 10 Segment 10	
	Level 3	03/16/11	Segment 4	
	<b>Biological Resource ESA (non-nesting) &amp; Disturbance Areas:</b> ESA buffer encroachment, work with no biological monitor present, work starting prior to daily biological sweep	CPUC	09/21/10 04/26/11	Seg 8, Phase 1 66 kV
		Level 0		
		Level 1	08/03/10 12/06/10 02/07/11 02/14/11 02/16/11 02/23/11 03/09/11 03/15/11 04/02/11 04/07/11 05/16/11 05/19/11 06/07/11 06/15/11 06/15/11 06/20/11 06/24/11	Seg 7, Telecom Segment 8 Segment 8 Segment 7 Segment 8 Segment 8 Segment 5 Whirlwind Segment 4 Segment 8 Segment 8 Segment 8 Segment 4 Segment 10 Segment 5 San Gabriel CY Segment 8
		Level 2	03/05/11 03/15/11	Segment 8 Segment 5
		Level 3		



Description	Type <sup>1</sup>	Date	Location
<b>Nesting:</b> Buffer encroachment, unauthorized nest removal, inadequate notifications,	CPUC	06/02/10 06/04/10 01/26/11	Antelope Antelope Vincent
	Level 0		
	Level 1	03/24/10 05/12/10 05/13/10 06/24/20 07/06/10 01/28/11 02/23/11	Vincent Vincent Vincent Yard 28 Yard 28 Segment 5 10 Telecom
	Level 2	06/17/10 06/22/10 03/29/11 04/16/11 05/09/11 06/02/11 06/17/11 06/21/11	Vincent Yard 28 Segment 8 Segment 8 Racetrack CY Segment 5 Segment 5 Segment 10
	Level 3	04/29/11	Segment 8

Description	Type <sup>1</sup>	Date	Location
<b>Biological Resource Endangerment:</b> Foundation holes not covered @ the end of the day, micro-trash, improper bird netting installation/gaps in netting, road improvement in tortoise habitat, tortoise gates left open/gaps in fence	CPUC		
	Level 0		
	Level 1	10/11/10 10/12/10 10/13/10 11/05/10 01/09/11 01/12/11 02/02/11 02/08/11 02/09/11 02/12/11 02/16/11 02/14/11 02/15/11 02/15/11 03/08/11 03/10/11 03/18/11 03/23/11 04/01/11 03/29/11 03/29/11 03/31/11 04/01/11 04/06/11 04/11/11 04/18/11 04/27/11(3) 04/30/11 05/03/11 05/06/11 05/07/11 05/18/11 05/20/11 05/21/11 05/25/11 05/31/11 06/01/11 06/03/11 06/04/11 06/07/11 06/08/11 06/08/11 06/08/11 06/13/11 06/14/11 06/16/11 06/20/11 06/21/11 06/23/11	Vincent Vincent Racetrack CY Racetrack CY Segment 8 Segment 5 Segment 8 Segment 8 Whirlwind Whirlwind Rancho Vista MY Whirlwind Whirlwind Segment 5 Rodeo Rodeo Segment 4 Material Yard 28 Segment 8 Vincent N MY Material Yard 28 Material Yard 28 Segment 5 Segment 4 Whirlwind Racetrack CY Vincent N MY Vincent S MY Segment 4 Whirlwind Vincent N MY Material Yard 28 Racetrack CY Vincent N MY Racetrack CY Segment 5 Vincent S MY Segment 4 Vincent N MY Vincent S MY Racetrack CY Vincent S MY Vincent N MY Segment 5 Whirlwind Segment 7 Segment 7 Racetrack CY Racetrack CY
	Level 2	03/08/11 06/07/11 06/09/11	Whirlwind Whirlwind Segment 10
	Level 3	05/31/11	Vincent S MY

Description	Type <sup>1</sup>	Date	Location
<b>Cultural/Paleontological Resources:</b> Site damage, no monitor present, inadequate notification, unauthorized artifact relocation,	CPUC	05/10/10	Segment 2
	Level 0	12/01/10 12/02/10 12/03/10 12/07/10 12/10/10 02/02/10	Segment 8 Segment 8 Vincent Segment 8 Seg 7/8, 66 kV Segment 8 Whirlwind 03/30/11
	Level 1	09/24/10 02/01/11 03/22/11	Segment 5 Whirlwind Segment 4
	Level 2		
	Level 3		
<b>Hydrological Resources:</b> Inadequate BMPs, jurisdictional drainage encroachment, track-out	CPUC	05/12/11	Segment 8
	Level 0		
	Level 1	09/09/10 01/31/11 02/01/11 02/07/11 02/10/11 02/10/11 02/11/11 02/17/11 02/23/11 03/01/11 03/01/11 03/01/11 03/08/11 03/09/11 03/22/11(2) 03/23/11 03/25/11 04/06/11 04/07/11 04/07/11 04/13/11 04/14/11 04/05/11 04/18/11 04/20/11 04/26/11 05/02/11 05/03/11 05/04/11 05/12/11 05/09/11 06/09/11 06/14/11 06/24/11	Mesa Yard Segment 8 Segment 8 Mira Loma CY Vincent 66 kV Racetrack CY Segment 5 Segments 6 & 11 Segment 4 Segment 4 Segment 4 Racetrack Segment 5 Segment 8 Segment 8 Segment 4 Segment 8 Segment 8 Segment 7 Segment 8 Segment 8 Racetrack CY Mira Loma CY Segment 5 Segment 7 Segment 8 Segment 8 Segment 8 Racetrack CY Rodeo CY Segment 8 Rio Hondo Yard
	Level 2	04/21/11	Segment 8
	Level 3		

Description	Type <sup>1</sup>	Date	Location
<b>Fuel/Hazardous Materials:</b> Spills, no/inadequate secondary containment and labeling, drilling polymer disposed onsite	CPUC	05/28/10	Windhub
	Level 0		
	Level 1	12/10/10 02/03/11 02/09/11 03/07/11 06/10/11	Racetrack CY Segment 7 Mira Loma CY Whirlwind Segment 4
	Level 2		
	Level 3		
	<b>Public/Worker Safety:</b> No monitoring at contaminated sites, traffic control not in compliance with TMP, no guard poles in place at roadways,	CPUC	
Level 0		12/15/10 12/28/10	Seg 7/8, 66 kV Seg 7/8, 66 kV
Level 1			
Level 2		01/20/11	Segment 7
Level 3			
<b>Air Quality:</b> Fugitive dust, non-CA licensed equipment, dust generation from speeding, soil piles, exceeding idling time	CPUC	05/12/10 05/04/11	Antelope Whirlwind
	Level 0		
	Level 1	10/18-22/10 02/02/11 02/09/11 02/09/11 02/10/11 02/11/11 02/19/11 03/03/11 03/07/11 03/14/11 03/15/11 03/28/11 03/28/11 04/13/11 04/22/11 04/26/11 05/02/11 05/09/11 06/07/11	Segment 5 Segment 8 Segment 8 Segment 8 Whirlwind Whirlwind Whirlwind Vincent N. Yard Whirlwind Whirlwind Whirlwind Segment 8 Whirlwind Segment 5 Segment 4 MY 75 Segment 5 Whirlwind Racetrack CY
	Level 2		
	Level 3		

1. Incident Type Definitions

CPUC: Incident document by CPUC EM.

Level 0: Unanticipated Discovery; documented by SCE Monitors.

Level 1: Minor; documented by SCE Monitors.

Level 2: Moderate; documented by SCE Monitors.

Level 3: Significant; documented by SCE Monitors.

**TABLE 5**  
**CPUC NON-COMPLIANCE REPORTS & PROJECT MEMORANDA**  
(Updated 07/05/11)

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): None Issued to Date			
NCR	Issued 02/24/11 Withdrawn 03/24/11	Project-wide	No notification of wildlife entrapment/mortality from bird deterrent netting.
CPUC Project Memoranda (PM)			
PM	04/27/10	Segment 3A	Delivery of equipment to Tower 43 within an ESA without monitors present.
PM	06/23/10	Segment 8 West CY	Vegetation clearing without preconstruction biological or clearance surveys within TRTP right-of-way.
PM	02/16/11	Project-wide	No notification provided on 10 separate Level 0 incidences.
PM	02/16/11	Segment 7	Construction crews entered area prior to sweep being field validated by CPUC EM.

## PROJECT PHOTOGRAPHS



**Figure 1:** KV Structures drilling Tower 1 (just outside Whirlwind Substation), Segment 4.



**Figure 2:** H&H Grading removing old 220 kV tower foundations near new 500 kV Tower 60, Segment 5.



**Figure 3:** H&M steel crew assembling and erecting Tower 16, Segment 5.



**Figure 4:** A Wilson crew assembles a tower in the Huntington Yard, Segment 7.



**Figure 5:** Crews erect a TSP in Chino Hills, Segment 8 Phase 1.



**Figure 6:** Crews string a shoofly pole near I-605, Segment 8 Phase 4.