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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:** May 10, 2011  
**Subject:** Weekly Report 170, April 24 to April 29, 2011

## INTRODUCTION

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

- Antelope-Pardee 500 kV Transmission Project, Segment 1, including Antelope Substation expansion;
- Antelope Transmission Project, Segments 2, 3A and 3B, including the Windhub and Highwind Substations; and
- 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):** Stephanie Jayne, Jenny Slaughter, and Allison Roth

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

### Summary of Activity:

1. Construction of Segments 1, 2, and 3A has 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.
2. Construction activities at the Antelope Substation included conductor stringing, above grade construction and steel work, minor civil work, cable pulling and testing inside the MEER building, and assembly of the AA banks. Upcoming work next month includes filling the AA banks with oil.
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 included structural steel and capacitor bank work in the 500 kV area, installation of block walls between the reactors, breaker installation on pads, and transportation of materials to Whirlwind Substation. It will be several months before the transformers are filled with oil.
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. Quarterly reports for the activity are 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 April 25<sup>th</sup>, SCE received CDFG approval to remove a partially built passerine nest in Antelope Substation.
2. SCE has developed a solution for the channel incision that occurred immediately downstream of the riprapped 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.

No Non-Compliance Reports or 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, 98% of the civil work is complete. Work included laying down road base, and perimeter fence and guard rail installation. Inside the substation, SCE verified circuit breaker cables. The 500 kV wiring is complete. Upcoming work will include 1X and 2X line relocation.
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 M73-T3A, M74-T1B, 3, and 13. Two interest towers outside of Whirlwind Substation were completed during an outage on the Midway-Vincent #3 line. H&M steel crews continued tower assembly and erection work at various locations between Towers 10 and 54. H&H Grading conducted access road grading on Avenue C between 140th and 150th Streets. BMP's were installed at Tower M74-T1B. Tortoise fence installation was completed at Towers M73-T3A, M73-T3B, and 4, including the spur roads. A 100% visual coverage inside the fencing, plus a 50-foot buffer, were conducted for desert tortoise and Mohave ground squirrel prior to site occupation in order to fulfill the CDFG Incidental Take Permit (ITP) requirements.
3. Segment 5: Woodward Brothers (drilling contractor) continued drilling, setting rebar cages, and concrete pouring at Tower 43, 44, and 46. H&M steel crews worked at Tower 5, 59, and 65 (see Figure 1). Access road grading and tower pad re-contouring occurred at Towers 20, 21, and 23 (see Figure 2). Steel removal of the existing 220 kV towers continued.
4. Segment 10: Tortoise fence installation continued at Towers 87 to 79. Moore Fence Company continued installation of the no-dig tortoise fence along the General Petroleum Access Road. Upon completion of the ITP survey for desert tortoise and Mohave ground squirrel, the General Petroleum road was graded from Rosamond Boulevard to Tower 88 (see Figure 3).
5. Segment 10 Telecom: No work occurred on this Segment during the reporting period.
6. Whirlwind Substation: Cattracts (grading contractor) continued grading down the 220 kV area and filling the 500 kV area. The 220 kV grid is being trenched. Dead end, circuit breaker, and disconnect foundations were drilled and some have been poured with concrete. Work continued on the drainage berm around the substation, including riprap placement. Forms for the MEER building were installed and poured with concrete. Rodbusters (contractor for the inside of the MEER building only) installed rebar around the forms. Additional tortoise fence was installed for the underground aqueduct bridge along 170<sup>th</sup> Street. A 100% visual coverage inside the fencing, plus a 50-foot buffer, were conducted. The underground bridge work along 170<sup>th</sup> Street continued (see Figure 4).

## **Environmental Compliance:**

1. The CPUC EMs were informed during the weekly construction meeting that a new cultural site was discovered on Segment 10. A Supplemental Survey Report will be submitted to the agencies for review.
2. The CPUC EM verified the burrowing owl buffer reduction in the northeast corner of the Racetrack Yard. This reduction was approved by CDFG on April 25<sup>th</sup>. The screened fence of the yard provides a visual buffer between yard activity and the burrow. Equipment that was confined in the original 250-foot buffer was not removed until the buffer reduction was approved and changed in the field.
3. The CPUC Lead EM and EM participated in a field visit with CDFG on April 27<sup>th</sup> to inspect the tortoise fence that had been installed on Avenue C on Segment 4. Modifications to the fence installation (rebar staples instead of sand bags) were requested for use by both resource agencies.
4. The CPUC Lead EM and EM conducted a preliminary field verification of Towers 75 to 61 on Segment 10.
5. SCE received CDFG approval to remove six partially built raven nests on Segments 4 and 5.
6. SCE contacted Aspen regarding minor changes to the Segment 10 Telecom alignment (movement of wood poles, installation of new anchors, and modifying the underground portion). SCE submitted a NTP Modification Request to document these changes which was approved by CPUC on May 6th.
7. 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.
8. Special-status species observed during the subject period by Biological Monitors included loggerhead shrike, ferruginous hawk, and long-eared owl.
9. Thirty-three new nests discovered during the subject period included ravens, sage sparrows, mourning doves, starlings, house finches, loggerhead shrikes, California thrashers, and mockingbirds. SCE received CDFG concurrence on buffer reductions for nine nests.

Two Level 1 SCE NCRs and no Level 2 SCE 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):**

Erinn Wilson (CDFG).

## **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 August 2011. 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 has commenced at Material Yard 75 South. Crews performed minor grading.
4. Weed abatement activities continued on Segments 6 and 11.

## **Environmental Compliance**

1. The CPUC EM verified disturbance staking for the power pole installation outside the Vincent South Material Yard.
2. On April 28<sup>th</sup>, SCE received CDFG approval to remove a partially built house finch nest from the Vincent North Material Yard.
3. On April 30<sup>th</sup>, SCE reported two house finches trapped under the designated netted parking area in the Vincent South Material Yard. The birds were safely released and the large gaps were repaired.
4. Watering for dust control occurred at the Vincent North and South Material Yards.

Five SCE Level 1 non-compliances were 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 and SCE crews continued work on the overhead portion of the Rio Hondo–Amador-Jose-Mesa and Rio Hondo–Anita No. 2, setting poles and within the Duck Farm, pulling conduit. Additionally, Wilson began the underground portion of the Rio Hondo–Amador-Jose-Mesa line from the Rio Hondo Substation under Interstate 605. Crews dug trenches and set vaults.
2. Segment 7: Tri-State continued drilling at Tower M27-T4. DCX performed foundation excavations at several towers (see Figure 5). Additionally, Wilson crews mowed at tower and wire setup sites.
3. Segment 8, Phase 1: Wilson, DCX and Tri-State crews continued to work within Tonner Canyon in the City of Industry and in the City of Chino Hills. Crews continued grading at several tower pad locations, drilling four foundations and began assembling two towers for the new double circuit 500 kV Mira Loma–Vincent line (see Figures 6 and 7).
4. Segment 8, Phase 2: Wilson crews continued wire stringing on the Chino–Mira Loma No. 1 line from Towers M3-T2 to M6-T2 (see Figure 8). Additionally, Wilson crews finished structure assembly work.
5. Segment 8, Phase 3: No work occurred during the subject period.
6. Segment 8, Phase 4: Crews began vegetation clearing along access roads and grading for tower pad construction within the Puente Hills Landfill Native Habitat Authority land in the City of Hacienda Heights. Additionally, crews continued tower assembly on Tower 29-T1B in Pathfinder Park.

### **Environmental Compliance:**

1. SCE halted the use of Tonner Canyon Road within Tonner Canyon on April 25<sup>th</sup> on the recommendation of CDFG. The CDFG ITP and Streambed Alteration Agreement (SAA) state that no construction shall occur within 300 feet of identified least Bell's vireo and southwestern willow flycatcher, and all suitable habitat within 500 feet of construction must be surveyed. As Tonner Canyon Road parallels Tonner Canyon Creek, which supports suitable habitat in various locations along the length of the creek and since the property owner will not allow surveys to be conducted along this section, the use of the road has been discontinued until the survey issues are resolved.
2. An SCE Level 1 non-compliance was issued on April 26<sup>th</sup> due to missing BMPs at Rio Hondo Material Yard. In addition, waste containers within the yard had been left uncovered; it was determined that the containers are the responsibility of SCE crews who replaced the tarps covering the materials by the end of the week.

3. A meeting was held with SCE, Burns and McDonnell and Wilson environmental personnel on April 26<sup>th</sup> to discuss survey schedules. It was suggested that Wilson work closer with SCE to determine the best way to group tower locations for surveys. There were also suggestions for how to shorten the length of time it takes to receive surveys from SCE.
4. It was determined on April 26<sup>th</sup> that SCE crews doing 66 kV work on Durfee Road in South El Monte had been working without a monitor for three days the week of April 18<sup>th</sup>; all work had been conducted within disturbed areas and no resource damage occurred.
5. An SCE Level 3 non-compliance was issued on April 29<sup>th</sup> after a Cassin's kingbird nest that was approved for removal from a tower on Segment 8, Phase 2, was removed by a Wilson lineman without a Biological Monitor being present. Additionally, standard nest removal protocol was not followed: a photo was not taken to confirm the presence or absence of eggs or young in the nest, and the lineman who removed the nest took it with him when he left the site. Biological Monitors found egg shell fragments beneath the tower, but it could not be confirmed that they came from the removed nest. In response to the incident, Wilson has adopted a new protocol for nest removal that includes increased communication between Wilson, Burns and McDonnell, and SCE.
6. There was a 1-gallon hydraulic oil spill on April 28<sup>th</sup> during work at Tower M29-T2 in the Huntington Drive Contractor Yard. The spill was cleaned immediately and the SCE CIH was notified.
7. ICF Biologists continue to collapse burrows along Edison Avenue in the City of Chino as part of a burrowing owl relocation that commenced on February 1<sup>st</sup>.
8. The CPUC EMs received ten preconstruction surveys and sweeps for construction on both Segments 7 and 8 during the subject period. Many of these surveys were for sites where construction had begun, but activity had lapsed for more than 30 days. The CPUC EM noted no concerns and all sites were approved for construction to commence.
9. During the subject period, SCE received CDFG approval to remove six partially built on Segments 7 and 8.
10. Special-status species observed during the week by Biological Monitors included burrowing owl, coast horned lizard, and loggerhead shrike.
11. Bird nesting clearance surveys are being conducted in advance of construction as required by adopted mitigation measures. Thirty-two new nests discovered during the subject period on Segments 7 and 8 included: Cassin's kingbird nests, lesser goldfinch nests, house sparrow nests, bushtit nests, killdeer nests, mourning dove nests, American crow nests, and a northern rough-winged swallow nest. CDFG provided concurrence of buffer reductions for eighteen nests.

Two SCE Level 1 and one Level 3 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 05/10/11)

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.
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

NTP #/ Permit	Date Requested	Date Issued	Segment #	Description
#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.
#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
#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
#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.
#21	11/18/10	12/09/10	6 & 11	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.
#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	Under Review	6, 11	San Gabriel Yard.
ANF PERMTING – 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 05/10/11)

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.
VR #71 MOD #3	11/18/10	11/19/10	1	Further expansion of construction hours for Antelope Substation construction.



Variance Request	Date Requested	Date Issued	Segment #	Description
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
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.

Variance Request	Date Requested	Date Issued	Segment #	Description
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 Intersect M54-T3A
#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.

Variance Request	Date Requested	Date Issued	Segment #	Description
#59	05/06/11	05/09/11	8	Segment 8 Phase 1, M49-T1 and M59-T2 additional parking, staging and turn-around areas.
	04/25/11	Under Review	7	Wire Setup Site expansions. Inquiry to SCE 04/27.
	05/10/11	Under Review	All	Allow continued use of approved TEWS access roads if nesting birds subsequently move in.

**TABLE 3**  
**TEMPORARY EXTRA WORKSPACE (TEWS) REQUESTS**  
(Updated 05/10/11)

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.

TEWS Request	Date Requested	Date Approved	Segment #	Description
#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
#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

## 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 04/29/11)

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 06/03/10 10/19/10 11/15/10 01/26/11	Rancho Vista CY Antelope Seg 7/8, 66 kV Segment 8 Segment 8
	Level 0		
	Level 1	09/21/10 10/01/10 10/09/10 12/06/10 01/07/11 01/12/11 02/11/11 02/12/11 02/12/11 02/14/11 03/07/11 03/11/11 03/15/11 03/15/11 03/16/11 03/29/11 04/02/11 04/25/11 04/25/11 04/27/11 04/28/11	Mesa Yard Racetrack CY Segment 4 (2) Segment 8 Segment 5 Segment 4 66 kV Segment 8 Segment 8 Segment 8(2) Whirlwind Segment 8 Whirlwind Racetrack Segment 4 Segment 5 Segment 5 Segment 5 Whirlwind Vincent N MY Segment 8
	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	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 4 Segment 8
	Level 3	03/16/11	Segment 4

Description	Type <sup>1</sup>	Date	Location	
<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	Seg 7, Telecom Segment 8 Segment 8 Segment 7 Segment 8 Segment 8 Segment 5 Whirlwind Segment 4 Segment 8	
	Level 2	03/05/11 03/15/11	Segment 8 Segment 5	
	Level 3			
	<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	Vincent Yard 28 Segment 8 Segment 8	
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,	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	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	
	Level 2	03/08/11	Whirlwind	
	Level 3			
	<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		

Description	Type <sup>1</sup>	Date	Location	
<b>Hydrological Resources:</b> Inadequate BMPs, jurisdictional drainage encroachment, track-out	CPUC			
	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	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	
	Level 2	04/21/11	Segment 8	
	Level 3			
	<b>Fuel/Hazardous Materials:</b> Spills, no/inadequate secondary containment and labeling,	CPUC	05/28/10	Windhub
		Level 0		
		Level 1	12/10/10 02/03/11 02/09/11 03/07/11	Racetrack CY Segment 7 Mira Loma CY Whirlwind
		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		



Description	Type <sup>1</sup>	Date	Location
<b>Air Quality:</b> Fugitive dust, non-CA licensed equipment, dust generation from speeding, soil piles	CPUC	05/12/10	Antelope
	Level 0		
	Level 1	10/18-22/10	Segment 5
		02/02/11	Segment 8
		02/09/11	Segment 8
		02/09/11	Segment 8
		02/10/11	Whirlwind
		02/11/11	Whirlwind
		02/19/11	Whirlwind
		03/03/11	Vincent N. Yard
		03/07/11	Whirlwind
03/14/11	Whirlwind		
03/15/11	Whirlwind		
03/28/11	Segment 8		
03/28/11	Whirlwind		
04/13/11	Segment 5		
04/22/11	Segment 4		
04/26/11	MY 75		
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 05/10/11)

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:** H&M steel crew assembling Tower 65, Segment 5.



**Figure 2:** H&H Grading re-contouring Tower 20 pad site, Segment 5.



**Figure 3:** View of General Petroleum Access Road after grading was conducted, Segment 10.



**Figure 4:** Bragg (drilling contractor) working on the underground bridge along 170<sup>th</sup> Street outside Whirlwind Substation, Segment 9.



**Figure 5:** Crews remove a foundation in the City of Duarte, Segment 7.



**Figure 6:** Crews move a casing for foundation drilling in Chino Hills, Segment 8, Phase 1.



**Figure 7:** Crews drill foundations in the foreground and background in Chino Hills, Segment 8, Phase 1.



**Figure 8:** Crews string conductor, Segment 8, Phase 2.