



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

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

**To:** John Boccio, Project Manager, CPUC **From:** Vida Strong, Aspen Project Manager

**Date:** May 31, 2011

**Subject:** Weekly Report 173, May 15 to May 21, 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 installation of underground PVC into the reactors and cable pulling inside the MEER building. Filling oil in the transformers will begin this upcoming week.
- 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. Transportation of materials to Whirlwind Substation is ongoing. Oil for the transformers is being delivered. Construction of the Coram Brody 66 kV project that is connecting into the substation will begin in June.
- 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.

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#### **Environmental Compliance:**

1. 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. Ongoing work included laying down road base, and perimeter fence and guard rail installation. Union is working to install the gate at the Foreston Road and Rockyford Road intersection. Inside the Substation, the 500 kV wiring is complete. Preparation for the Midway to Vincent No. 2 outage continued.
- 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 14, 15, 16, and M74-T1X. H&M steel crews continued tower assembly and erection work at various locations throughout the Segment (see Figure 1). Vegetation clearing and chipping were conducted at Towers 1, 2, and M74-T1A, and M74-T1X. BMPs were maintained at various locations. The CDFG Incidental Take Permit (ITP) survey was completed for Towers 1, 2, M74-T1A and M74-T1X.
- 3. Segment 5: Woodward Brothers (drilling contractor) continued drilling, setting rebar cages, and concrete pouring at Tower 21, 23, 49 and 53 (see Figure 2). H&M steel crews worked at Tower 6, 7, 17, 22, 43, and 50. Tower pad re-contouring occurred at Towers 27, 28, and 45-47. Wreck-outs of the existing 220 kV towers resumed between Elizabeth Lake Road and Godde Hill Road, Towers 25 through 29 (see Figure 3). Removal of old steel from the 220 kV towers continued.
- 4. Segment 10: KV Structures (drilling contractor) completed Tower 92 inside Whirlwind Substation. Moore Fence Company continued tortoise fence installation and grading along General Petroleum Road and tower disturbance sites heading north from 150<sup>th</sup> Street to Tower 75. Vegetation clearing and t-post installation for tortoise fence was conducted between Towers 75 and 69. BMPs were installed throughout the segment. H&H Grading is grubbing all disturbance sites and chipping the vegetation in the wire setup sites. The ITP survey was completed for Towers 75-79, 83, and the associated spur roads.
- 5. Segment 10 Telecom: No work occurred on this Segment during the reporting period.
- 6. Whirlwind Substation: Work included grading down the 500 kV area and backfilling the 220 kV area. The 220 kV grid is being trenched. The 220 kV steel dead ends and disconnect switches are being erected by PAR crews. Riprap placement around the drainage berm continued on the north side and in the spreader. Work continued on the MEER building. The onsite well is being used, but is producing 200 gallons per minute when it was anticipated to produce 380 gallons per minute. The underground bridge over the aqueduct is complete.

#### **Environmental Compliance:**

- 1. SCE is to submit a memorandum to the CPUC 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 majority of Tower 34 on Segment 5 was stolen from the disturbance site. Patrols in areas covered under the ITP or Biological Opinion will be requested to both resource agencies since night work was not authorized under both permits.
- 2. On May 17<sup>th</sup>, the CPUC EM met with the Segment 10 SCE Biological Lead Monitor, a Kleinfelder Biological Monitor (for H&M), and the Burns & McDonnell Environmental Coordinators along 160<sup>th</sup> Street to discuss an access road that is shown as minimum improvement on the construction drawings. The access road in question heads west off of 160<sup>th</sup> Street to a pull site between Towers 83 and 84 on Segment 10. There is no evidence of an existing road (i.e. two-track) and there are creosote bushes within the staked limits. The contractor has staked the road limits to 14-feet wide for heavy improvement (see Figure 4). SCE is looking into the vegetation mapping and will provide follow-up.
- 3. On May 18<sup>th</sup>, the CPUC EM's attended a field demonstration on Segment 4 with SCE, Kleinfelder, and Burns & McDonnell to discuss a new daily biological sweep procedure that Kleinfelder (contractor biological monitor) would like to implement. The procedure consists of having a green painted lath staked at each disturbance site. The SCE Biological Monitor will write their initials and the date on the lath once the sweep is completed. This will provide the H&M crews clearance to enter the site to begin work without having to wait on verbal approval. Kleinfelder is slowly introducing this procedure on Segment 5 in the non-ITP (Incidental Take Permit) areas.
- 4. The CPUC EM's were informed during the weekly construction meeting that there are several drainages on Segment 10 that were not identified in the Wetland Delineation Report, so therefore not permitted. These drainages cross tower disturbance sites and wire setup sites. SCE is proceeding with amending the permit. There is also some discussion about shifting a couple disturbance sites to eliminate the drainages altogether.
- 5. On May 18<sup>th</sup>, SCE reported that a Say's Phoebe was trapped under the bird netting in Material Yard 28. The bird was released unharmed.
- 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.
- 7. Special-status species observed during the subject period by Biological Monitors included loggerhead shrike, Le Conte's thrasher, desert kit fox, Vaux's swift, yellow-headed blackbird, and burrowing owl.
- 8. Eighteen new nests discovered during the subject period included ravens, starlings, house finches, barn owls, California Towhee and California Thrasher. SCE received CDFG concurrence on buffer reductions for seven nests.

Three Level 1 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):**

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 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 continued at Material Yard 75 South. Gravel and fencing was added during the subject period.
- 4. Weed abatement activities continued on Segments 6 and 11. Approximately 25 acres of weed abatement has occurred to date.

#### **Environmental Compliance**

1. Watering for dust control occurred at the Vincent North and South Material Yards.

No SCE non-compliances were issued during the subject period for TRTP Segment 6 and 11 construction activities. No CPUC Project Memoranda or NCRs 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 set the tops. SCE crews set riser poles on the Rio Hondo-Amador-Jose-Mesa line outside of the Rio Hondo Substation (see Figure 5). Additionally, Wilson continued the underground portion of the Rio Hondo-Anita No. 2 line from the Rio Hondo Substation under Interstate 605, trenching and setting vaults.
- 2. Segment 7: Wilson began assembly at Tower M27-T4. DCX continued drilling at Tower M29-T2 within the Huntington Contractor Yard (see Figure 6). Additionally, Wilson crews mowed tower sites and wire setup sites to keep environmental surveys active.
- 3. Segment 8, Phase 1: Wilson, DCX and Tri-State crews continued to work within the City of Chino Hills. Crews continued grading and SWPPP BMP installations at several tower pad locations, drilling two foundations, and began setting TSPs for the new double circuit 500 kV Mira Loma–Vincent line (see Figures 7 and 8). Additionally, Wilson crews mowed tower sites and wire setup sites to keep environmental surveys active. No tower construction occurred in Tonner Canyon, City of Industry due to biological resource restrictions (see below).
- 4. Segment 8, Phase 2: Wilson crews continued wire stringing on the Chino–Mira Loma No. 1 line and installed jumpers. Additionally, crews removed guard structures from portions of the Segment where wire stringing has been completed.
- 5. Segment 8, Phase 3: No work occurred during the subject period.
- 6. Segment 8, Phase 4: Crews began drilling a foundation within the Puente Hills Landfill Native Habitat Authority land in the City of Hacienda Heights.

#### **Environmental Compliance:**

- 1. SCE received concurrence from USFWS on May 18<sup>th</sup> for use of Greenwood Avenue in Montebello Hills, Segment 7. Access had been constricted along Greenwood Avenue because it falls within the 500-foot buffer established for coastal California gnatcatcher on the west side of the road.
- 2. A non-TRTP botanist alerted an Aspen Biologist on May 16<sup>th</sup> of the potential discovery of an individual Santa Barbara morning glory (*Calystegia sepium* ssp. *binghamae*) on the TRTP right-of-way. Santa Barbara morning glory had been presumed extinct. The Aspen Biologist collected a specimen of the plant and compared it with local herbarium specimens to verify the preliminary identification of the plant. A site visit was held, with representatives from Aspen, ICF and SCE, on May 17<sup>th</sup> to determine the plant's proximity to the disturbance footprint of the project and to discuss preliminary management of the area. SCE is scheduling a follow-up site visit for the beginning of June.
- 3. 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.
- 4. During the subject period, the CPUC EM notified the SCE Environmental Coordinator that the designated Evacuation Officer for Segments 7 and 8 was not identifying evacuation routes on Puente Hills Landfill Native Habitat Authority land, per MM F-1. SCE responded that they would communicate the importance of identifying the routes to the contractor.
- 5. An SCE Level 2 non-compliance was issued to DCX construction crews on May 16<sup>th</sup> for working within a coastal California gnatcatcher restriction zone. The restriction had been added to the Segments 7 and 8 construction maps issued on May 13<sup>th</sup>, but was not noticed by the crews.
- 6. An SCE Level 1 non-compliance was issued to the SCE Biological Monitors (ICF) on May 19<sup>th</sup> since they allowed work to proceed without appropriate nesting buffer in place. After verifying the location of other nest ESA buffers, the Biological Monitor at M6-T7 on Segment 8, Phase 2, concluded that the proper buffer for a Cassin's kingbird nest had not been established. The crew working at the site was asked to secure the site and demobilize.
- 7. During preparation for wire removal on at Tower M36-T2 on Segment 7 on May 19<sup>th</sup>, a Wilson foreman was using an aerial lift to approach work outside the five foot buffer of a Cassin' kingbird nest. As he neared the nest, he noticed one of the chicks hanging upside down by its foot from the nest. The foreman was instructed by the SCE Biological Monitor to put the bird back into the nest. The bird flew from the nest to an adjacent tower and then to the ground as soon as the lineman placed it back inside the nest. The crew left the site when their work was complete; the bird was observed later that day in a tree nearby.
- 8. 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>.
- 9. The CPUC EMs received twelve 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. All sites were approved for construction to commence once buffer reductions received concurrence from CDFG allowing access to work sites.
- 10. During the subject period, SCE received CDFG approval to remove one partially built nest on Segments 7 and 8.
- 11. Special-status species observed during the week by Biological Monitors included least Bell's vireo, white-tailed kite, loggerhead shrike, burrowing owl, and coastal California gnatcatcher.

12. Bird nesting clearance surveys are being conducted in advance of construction as required by adopted mitigation measures. Thirty-nine new nests discovered during the subject period on Segments 7 and 8 included: Cassin's kingbird nests, common raven nests, California towhee nests, house finch nests, cliff swallow nests, Bullock's oriole nests. CDFG provided concurrence of buffer reductions for thirtytwo nests.

One SCE Level 1 and one SCE Leven 2 non-Compliance Report was 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 06/02/11)

NTP #/ Date Date Segment Permit Requested Issued # Description

CPUC NTPs, Segments 1-3						
For CPUC N	For CPUC NTP and Addendum activity on Segments 1-3 prior to 2010, please see Table 1 in Weekly Reports 106-107.					
#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.		

NTP #/ Permit	Date Requested	Date Issued	Segment #	Description	
CPUC	05/25/10	06/04/10	1	Permanent overland travel routes for Operation and	
Addendum				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 form 2009/2010 rains.	
			CPUC N	TPs 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	
#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	

NTP#/	Date	Date	Segment		
Permit #19	Requested 10/29/10	Issued 11/12/10	4, 5, 10	Description  Avenue F Contractor Yard	
#19	10/29/10	11/30/10	10		
#20 Mod			10	Segment 10 Telecom  Changes to telecom route ITP/PO ecreege confirmation	
#20 Mod	04/19/11	05/06/11	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	05/13/11	6, 11	San Gabriel Yard.	
	05/16/11	Under review	4	Modifications to the Midway Vincent #3 T/L.	
		Al	NF PERMTT	ING – 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.	

### 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 (Undated 06/02/11)

	(Updated 06/02/11)						
Variance Request	Date Requested	Date Issued	Segment #	Description			
	•	V	ariance Reque	ests, Segments 1-3			
For Varian	ice Request act	ivity on Segme	ents 1-3 prior	to 2010, please see Table 2 in Weekly Reports 106-107.			
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.			
		Va	riance Reques	sts, 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.			

Variance Request	Date Requested	Date Issued	Segment #	Description	
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/.	
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.	
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 □nterest 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.	

Variance Request	Date Requested	Date Issued	Segment #	Description	
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	
#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.	

Variance Request	Date Requested	Date Issued	Segment #	Description	
#60 Mod	04/25/11	Under Review	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	Under Review	8	Extra work space to accommodate wire tagging areas.	
#65	05/25/11	Under Review	8	Extra parking, staging and turnaround at Tower M48-T3.	
#66	05/26/11	Under Review	5	Elizabeth Lake access road.	
	05/10/11	Under Review	All	Allow continued use of approved TEWS access roads in nesting birds subsequently move in. VR being revised by SCE.	
	05/27/11	Under Review	8	Additional workspace near M23-T2A in Segment 8 Phase 1.	
	06/01/11	Under Review	10	Shift in Tower 43 Wire Setup Site. CDFG/USFWS concurrence pending.	

TABLE 3
TEMPORARY EXTRA WORKSPACE (TEWS) REQUESTS
(Updated 05/31/11)

Segment Segment

TEWS	Date	Date	Segment						
Request	Requested	Approved	#	Description					
	TEWS, Segments 1-3								
For T	For TEWS activity on Segments 1-3 prior to 2010, please see Table 3 in Weekly Reports 106-107.								
	TEWS, Segments 4-11								
#1	09/30/10	09/30/10	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					

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TEWS Request	Date Requested	Date Approved	Segment #	Description	
#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	
#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 05/21/11)

Description	Type <sup>1</sup>	Date	Location					
OTHER COMPLIANCE INCIDENTS	OTHER COMPLIANCE INCIDENTS, SEGMENTS 1-3							
For Other Compliance Incident activity on Segments 1-3 prior to 2010, please see Table 4 in Weekly Reports 106-107.								
OTHER COMPLIANCE INCIDENTS, SEGMENTS 1	-11 (January	2010 thru th	ne present)					
Approved work areas & pre-construction surveys/sweeps: 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 03/15/11 03/15/11 03/29/11 04/02/11 04/25/11 04/25/11 04/28/11 05/05/11	Mesa Yard Racetrack CY Segment 4 (2) Segment 8 Segment 5 Segment 4 66 kV Segment 8 Segment 8 Segment 8 Segment 8 Segment 8 Whirlwind Segment 8 Whirlwind Racetrack Segment 4 Segment 5 Segment 5 Segment 5 Whirlwind Vincent N MY Segment 8 Segment 5 Segment 5 Segment 4					

Description	Type <sup>1</sup>	Date	Location
Description	Type <sup>1</sup> Level 2	Date           06/13/10           01/12/11           02/16/11           02/17/11           02/18/11           02/18/11           02/19/11           02/21/11           02/25/11           02/25/11           03/09/11           03/10/11           03/16/11           04/01/11           05/04/11           05/14/11	Seg 7, Telecom Segment 4 Segment 7 Segment 7 Segment 7 Segment 7 66 kV Segment 4 Segment 4 Segment 4 Segment 4 Segment 5 Segment 5 Segment 4 Segment 4 Segment 5 Segment 5 Segment 4 Segment 4 Segment 5 Segment 5 Segment 6 Segment 6 Segment 7
	Level 3	03/14/11	Segment 4 Segment 4
Biological Resource ESA (non-nesting) & Disturbance Areas: ESA buffer encroachment, work with no biological monitor	CPUC	09/21/10 04/26/11	Seg 8, Phase 1 66 kV
present, work starting prior to daily biological sweep	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 05/16/11 05/19/11	Seg 7, Telecom Segment 8 Segment 7 Segment 8 Segment 8 Segment 5 Whirlwind Segment 4 Segment 8 Segment 8 Segment 8 Segment 8 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 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

Description	Type <sup>1</sup>	Date	Location
	Level 2	06/17/10 06/22/10 03/29/11 04/16/11 05/09/11	Vincent Yard 28 Segment 8 Segment 8 Racetrack CY
	Level 3	04/29/11	Segment 8
Biological Resource Endangerment: Foundation holes not	CPUC		<u> </u>
covered @ the end of the day, micro-trash, improper bird netting	Level 0		
installation/gaps in netting, road improvement in tortoise habitat,	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 02/12/11 02/16/11 02/15/11 02/15/11 03/10/11 03/10/11 03/29/11 03/29/11 03/29/11 04/01/11 04/06/11 04/11/11 04/06/11 04/11/11 04/11/11 04/11/11 05/03/11 05/03/11 05/06/11 05/20/11 03/08/11	Vincent Vincent Racetrack CY Racetrack CY Regment 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 Segment 4 Whirlwind Racetrack CY Vincent N MY Vincent S MY Segment 4 Whirlwind Racetrack CY Vincent N MY Vincent N MY Vincent S MY Segment 4 Whirlwind Vincent N MY Material Yard 28 Racetrack CY Vincent N MY Material Yard 28 Racetrack CY Vincent N MY Material Yard 28 Racetrack CY Vincent N MY
	Level 3		
Cultural/Paleontological Resources: Site damage, no monitor	CPUC	05/10/10	Segment 2
present, inadequate notification, unauthorized artifact relocation,	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

Description	Type <sup>1</sup>	Date	Location
	Level 1	09/24/10 02/01/11 03/22/11	Segment 5 Whirlwind Segment 4
	Level 2		
	Level 3		
Hydrological Resources: Inadequate BMPs, jurisdictional	CPUC	05/12/11	Segment 8
drainage encroachment, track-out	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 03/08/11 03/09/11 03/22/11(2) 03/23/11 04/06/11 04/07/11 04/07/11 04/13/11 04/13/11 04/26/11 05/02/11 05/03/11	Mesa Yard Segment 8 Segment 8 Mira Loma CY Vincent 66 kV Racetrack CY Segment 5 Segments 6 & 11 Segment 4 Segment 4 Segment 5 Segment 5 Segment 5 Segment 7 Segment 8 Segment 8 Segment 8 Segment 8 Segment 8 Segment 7 Segment 8 Segment 7 Segment 8 Racetrack CY Mira Loma CY Segment 7 Segment 8 Segment 8 Racetrack CY Mira Loma CY Segment 7 Segment 8
		05/12/11 05/09/11	Segment 8 Racetrack CY
	Level 2	04/21/11	Segment 8
	Level 3		-
Fuel/Hazardous Materials: Spills, no/inadequate secondary	CPUC	05/28/10	Windhub
containment and labeling,	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		

Description	Type <sup>1</sup>	Date	Location
Public/Worker Safety: No monitoring at contaminated sites,	CPUC		
traffic control not in compliance with TMP, no guard poles in place at roadways,	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	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 02/11/11 03/03/11 03/07/11 03/14/11 03/28/11 03/28/11 04/13/11 04/22/11 04/26/11 05/02/11	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
	Level 2		
	Level 3		

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 06/02/11)

Туре	Date	Location	Description			
NON-COMPLIANCE REPORTS & PROJECT MEMORANDA, SEGMENTS 1-3						
For CPUC Non-Compliance Reports & Project Memoranda activity on Segments 1-3 prior to 2010, please see Table 4 in Weekly Reports 106-107.						
NON-COMPLIANCE REPORTS & PROJECT MEMORANDA, SEGMENTS 1-11 (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 46, Segment 4.



**Figure 2:** Woodward Brothers drilling foundations at Tower 49, Segment 5.



**Figure 3:** H&M wrecking-out 220 kV tower north of Elizabeth Lake Road, Segment 5.



**Figure 4:** View west of minimum improvement access road off of 160<sup>th</sup> Street, Segment 10.



**Figure 5:** SCE crews set a riser pole on the underground Rio Hondo–Amador-Jose-Mesa line, Segment 7, 66 kV.



Figure 6: Crews assemble arms at Tower M27-T4, Segment 7 in Duarte.



**Figure 7:** Crews set the mid-section of a tubular steel pole at Tower M61-T2, Segment 8, Phase 1 in Chino Hills.



Figure 8: A Tri-State crew sets a rebar cage, Segment 8, Phase 1.