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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:** September 13, 2010  
**Subject:** Weekly Reports 135-136 — August 15 to August 31, 2010

**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 Work-space and non-compliance activity are provided in Tables 3 and 4, respectively.

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

**SEGMENT 1: ANTELOPE-PARDEE**

**Summary of Activity:**

1. Grading of the Antelope Substation expansion area was completed on July 9. Crews continued work on the AA banks in the middle of the grading area, and a crew worked on the circuit breaker foundation of one of the switchracks.
2. Habitat restoration has not been completed in Segment 1. ECORP and Nature's Image are conducting maintenance activities including weeding in areas previously seeded. Areas still requiring treatment in Segment 1 include Wire Stringing Site 3 and Tower 9.

**Environmental Compliance:**

1. Four woodrat middens were flagged for avoidance approximately 50 feet from Construct 8 during a clearance sweep in preparation for erosion control repair work. These middens were previously documented in 2008.

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

**Agency Representatives:**

None



## **SEGMENT 2: ANTELOPE-VINCENT**

The Notice to Proceed for Segment 2 construction (NTP #14) was issued by the CPUC on September 30, 2008. Segment 2 involved the construction of a new 21.0-mile single-circuit 500 kV transmission line initially energized at 220 kV and 0.6 miles of a new 220 kV transmission line connecting SCE's Antelope Substation in the City of Lancaster to the Vincent Substation in unincorporated Los Angeles County. Segment 2 construction activities have been completed and the Segment 2 transmission line was energized on December 17<sup>th</sup>.

### **Summary of Activity:**

1. Construction of Segment 2 is complete and the line was energized on December 17<sup>th</sup>, 2009. Erosion inspections are ongoing and revegetation is scheduled for Fall 2010.
2. PAR crews performed erosion control repairs on Constructs 18, 24, 25, 35, and 36.

### **Environmental Compliance:**

1. Clearance surveys were conducted at Const 24, 25, 35, and 36 to prepare for erosion repair work. No sensitive resources were found.
2. Crown Fire burned through Segment 2 from Const 27 to Const 82 from July 29 into early-August.

No Non-Compliance Reports or Project Memoranda were issued for Segment 2 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

## **SEGMENT 3: ANTELOPE-WINDHUB/WINDHUB-HIGHWIND**

The NTP for Segment 3A (NTP #17) was issued by the CPUC on October 22, 2008. Segment 3A involved the construction of a new 25.6-mile 500 kV transmission line initially to be energized at 220 kV connecting SCE's Antelope Substation in the City of Lancaster to the new Windhub Substation on Oak Creek Road in the Tehachapi area of Kern County. The NTP for the new Windhub Substation (NTP #19) was issued by the CPUC on December 1, 2008. Construction of the Segment 3A transmission line has been completed and energization has not been scheduled. Construction of Segment 3B is subject to the execution of interconnection agreements with the upcoming Tehachapi wind projects.

### **Summary of Activity**

1. Material relocation from the Mojave Yard and Windhub Substation to the Highwind Yard was completed on August 6<sup>th</sup>.
2. The 66 kV crew continues to splice in the vaults at the Windhub Substation. Crews also continued work on the switchrack foundations in Quad C. In addition, groundwork began in the 500 kV switchrack.
3. As of August 19<sup>th</sup>, the Avenue I Yard is no longer being used for TRTP 1-3.
4. Orange fencing was installed along the perimeter of the material laydown yard on the southeast corner of the expansion area at the Antelope Substation.

### **Environmental Compliance:**

1. Nest sweeps were conducted and tortoise fence was inspected at Windhub Substation. No issues were noted and no active nests were found.
2. On August 9<sup>th</sup>, a dead European starling was discovered in the bird deterrent netting covering one end of a TSP.

3. Biological surveys were conducted within the disturbance area for the material laydown area located on the southeast corner of the Antelope Substation expansion area, including a 500-foot buffer. No sensitive resources were discovered with the exception of horned larks, Loggerhead shrikes, and a prairie falcon being observed in the area.
4. SCE is working to develop a solution for the channel incision that occurred immediately downstream of the rip-rapped stream channel at the Windhub Substation site. Once a plan is developed, it will be submitted to the CPUC. SCE is also pursuing the acquisition of the stream channel property.

No Non-Compliance Reports or Project Memoranda were issued for Segment 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

**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. Construction activities include the establishment of yards, the Vincent Substation expansion, and Segment 7 Telecom work.

**Summary of Activity**

1. Activities continued under CPUC NTP #2 for the expansion of the Vincent Substation within the existing substation disturbance area. WEAP training for the 500 kV expansion was conducted on August 16, 2010 for H&H Grading. Water storage tank installation and grubbing are complete, including topsoil salvaging (see Figure 1). Final grading activities for the substation expansion area are underway and will continue for a couple more weeks. Activities within the existing substation disturbance area included concrete pouring at tower foundations, installing rebar cages in boreholes, expansion of rock construction entrance by KGC, stripping forms from cured foundations, and drilling boreholes for tower foundations at the north area of the substation.
2. Construction activities at Material Yard 28 in Lancaster included installation of antennas for internet connection and scanners on light poles, compaction of rock at the west entrance, and installation of snake fence around the perimeter of the existing fence.
3. The Rancho Vista Yard in Rancho Cucamonga continued to receive materials (see Figure 2). Materials off-loaded included tubular steel poles, which were stored in the northeastern portion of the yard; materials were covered with netting and shrink wrap to minimize the potential of birds utilizing the materials for nesting. Orange fencing in the yard clearly demarcated the 50-foot buffer for Delhi sands flower-loving fly; no construction activity occurred within the sensitive area.
4. Segment 7 Telecom work continued with the splicing of fiber optic cable inside the Rio Hondo Substation.
5. Segment 8 Telecom work included trenching and above ground activities in the cities of Chino, Chino Hills and Pomona. Trenching activities included traffic control, saw cutting, asphalt removal, trench excavation, conduit installation, slurry and backfill and asphalt installation (see Figure 3). Above ground activities included attaching fiber optic wire and wire stringing (see Figure 4).
6. Segments 7 and 8 66 kV relocation activities included delivery and assembly of steel poles along the SCE right-of-way (see Figure 5), potholing for buried waterlines, excavation of holes, and installation and modification of poles. Work occurred from the intersection of Ramona Boulevard and I-605 south toward I-10.

### **Environmental Compliance:**

1. Currently, there are no active nests or biological constraints at the Vincent Substation or 500-foot buffer area. Topsoil salvage at the Vincent Substation expansion is complete. The pile is covered with jute and surrounded by straw wattles.
2. At Material Yard 28, sand bags around the soil stockpile and sanitary waste tanks were observed to be torn on August 24<sup>th</sup> and had not been repaired by the end of the reporting period.
3. Two spills were reported on Segment 8 Telecom. On August 25<sup>th</sup>, a minor hydraulic fluid leak was observed from a dump truck used for trenching activities. The spill was cleaned up immediately and properly disposed of. On August 26<sup>th</sup>, a minor diesel fuel spill was observed from a plastic container located on a dump truck onto the roadway. The spill was cleaned up immediately and properly disposed of.
4. As of August 3, after no nestling or nesting activity has been observed for five days, it was determined that the remaining northern mockingbird nest at Rancho Vista Yard was inactive. It is presumed that the nestlings were large enough to have fledged.
5. Currently, there are no active nests at the Mesa Yard.
6. A few issues were noted on Segments 7 and 8 66 kV on August 26<sup>th</sup>. Three spill kits were delivered to the site. Construction vehicles used an undesignated road to exit the site. The crew foreman was informed that they must use designated access roads as noted on the plans.

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

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

None

### **CONTRACTOR YARDS: ALL SEGMENTS**

Contractor Yards are listed below along with a summary of current status.

- Racetrack Yard - Final clean-up completed
- Pumpkin Yard - Final clean-up completed
- Pottery Yard - Final clean-up completed
- Hydrant Yard - Final clean-up completed
- 10 Acre Yard - Final clean-up and decompaction completed; has not been reseeded.
- Avenue I Yard, Segments 2 & 3A: No longer in use for TRTP 1-3; the yard remains fenced and PAR has materials from other projects.
- Mojave Yard, Segment 3B: Taken over by SCE. The yard is empty and the fence will soon be removed.
- Highwind Yard, Segment 3B: Established. Material relocation from Mojave yard and Windhub to Highwind Yard completed.
- Avenue J Yard, Segments 4-11: In use.
- Yard 28, Segments 4-11: Established. Minimal material storage at present.
- Rodeo Yard, Segments 6 & 11: Proposed under Segments 4, 5, and 10.
- Huntington Drive Yard, Segments 6 & 11: Proposed under Segment 7
- Rancho Vista Yard, Segments 4-11: Established. Minimal material storage at present.

## CPUC NOTICES TO PROCEED (NTPS) & ANF PERMITTING

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

**TABLE 1**  
**CPUC NTPS & ANF PERMITTING**

(Updated 09/13/2010)

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 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

NTP #/ Permit	Date Requested	Date Issued	Segment #	Description
#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
#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	Under review	5	Segment 5 Transmission Line
	08/30/10	Under review	4	Segment 4 Transmission Line
	08/10/10	Under review	7	Segment 7 Transmission Line
	06/22/10	Under review	9	Whirlwind Substation
ANF PERMITTING – 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**  
(Updated 09/13/2010)

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.

Variance Request	Date Requested	Date Issued	Segment #	Description
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 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 turn around 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	8/26/10	8/26/10	8	Work on weekends for Segment 8 Telecom.

**TABLE 3**  
**TEMPORARY EXTRA WORKSPACE (TEWS) REQUESTS**  
(Updated 09/13/2010)

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				
None to date				

## NON-COMPLIANCES & INCIDENTS

A summary of Project Memorandum, Non-Compliance Reports, and other incidents to date is provided in Table 4.

**TABLE 4**  
**NON-COMPLIANCES, PROJECT MEMORANDA, AND OTHER INCIDENTS**  
 (Updated 09/13/2010)

Type	Date	Location	Description
Non-Compliances, Project Memoranda & Other Incidents, Segments 1-3			
<i>For Non-Compliances, Project Memoranda &amp; Other Incidents activity on Segments 1-3 prior to 2010, please see Table 4 in Weekly Reports 106-107.</i>			
Project Memorandum	04/27/10	3A	Delivery of equipment to Tower 43 within an ESA without monitors present.
Incident	05/10/10	2	Relocation of artifacts from archaeological site near Tower 21 during Segment 2 construction.
Incident	05/12/10	Antelope Substation	Fugitive dust leaving grading area.
Non-Compliances, Project Memoranda, & Other Incidents, Segments 4-11			
Incident/Level 1 SCE NCR	03/24/10	Vincent Substation	Construction encroachment into California Thrasher nest buffer.
Incident	04/20/10	Rancho Vista Yard	Equipment mobilized to site before resource fencing was verified by CPUC EM.
Incident/Level 1 SCE NCR	05/12/10	Vincent Substation	Resource buffer encroachment, construction within nesting bird buffers along Rockyford road.
Incident/Level 1 SCE NCR	05/13/10	Vincent Substation	Resource buffer for common raven encroachment within substation.
Incident	05/28/10	Windhub Substation	1 gallon fuel spill outside of Windhub substation.
Incident	06/02/10	Antelope Substation	Active nest disappeared from inside the engine compartment of a water truck at the expansion area over the holiday weekend.
Incident	06/03/10	Antelope Substation	Construction activities taking place without biological clearance surveys taking place. Resource buffer staking were in place.
Incident	06/04/10	Antelope Substation	Resource buffer encroachment in the expansion area. Vehicle entered a nest buffer area, nest was not found.
Incident/Level 2 SCE NCR	06/13/10	Segment 7 Telecom	Helicopter unloaded personnel and equipment in an unauthorized area.
Incident/Level 2 SCE NCR	06/17/10	Vincent Substation	Cement truck stopped within nesting bird buffer along Rockford road.
Incident/Level 2 SCE NCR	6/22/2010	Yard 28 Materials Yard	Vehicle drove through bird buffer exclusion zone.
Project Memorandum	06/23/10	Segment 8 West CY	Vegetation clearing without preconstruction biological or clearance surveys within TRTP right-of-way.
Incident/Level 1 SCE NCR	06/24/10	Yard 28 Materials Yard	Verizon employee parked within a bird buffer exclusion zone.
Incident/Level 1 SCE NCR	7/6/10	Yard 28 Materials Yard	All Day Electric employee drove through a bird buffer exclusion zone.
Incident/Level 1 SCE NCR	8/3/10	Segment 7 Telecom	Crews began work without a monitor present.



## PROJECT PHOTOGRAPHS



**Figure 1:** Topsoil pile at Vincent Expansion.



**Figure 2:** Material storage in Rancho Vista Yard.



**Figure 3:** Segment 8 Telecom trenching work along Peyton Drive in Chino Hills.



**Figure 4:** Segment 8 Telecom aerial work along in Pomona.



**Figure 5:** Segments 7/8 66 kV poles placed along the right-of-way.