



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

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

**To:** John Boccio, Project Manager, CPUC  
**From:** Vida Strong, Aspen Project Manager  
**Date:** October 15, 2010  
**Subject:** Weekly Report 140 – September 26 to October 2, 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 Workspace and non-compliance activity are provided in Tables 3 and 4, respectively.

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

**SEGMENTS 1-3: ANTELOPE-PARDEE AND ANTELOPE TRANSMISSION PROJECT**

**Summary of Activity:**

1. Construction of Segments 1, 2, and 3A have been completed. Segment 3B, from Windhub Substation to and including Highwind Substation has not been constructed.
2. Construction activities in the Antelope Substation expansion consisted of groundwork being conducted for the 500 kV switchrack and construction of the MEER building. Installation of the perimeter fence around the substation is complete. No materials were stored in the laydown yard during this reporting period. The spoil pile in front of the Antelope construction trailers is being smoothed out and will be covered with gravel.
3. Construction activities at the Windhub Substation included ground grid work for the 500 kV. ABB is to mobilize in October to set the transformers. Material storage for the future Whirlwind Substation is also occurring at the Windhub Substations site.
4. Material for Segment 3B and the future Whirlwind Substation is being stored at the Highwind Yard.
5. 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.
6. Revegetation for Segments 2 and 3A is scheduled for Fall 2010.



**Environmental Compliance:**

1. 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

**TECHAPI 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. Electrical and 220 kV work continued within the Vincent Substation.
2. Work activities on Segment 4 at Towers 34 and 35 included tower erection, water truck, and heavy equipment use (Figure 1).
3. Activities at the Racetrack Yard included equipment maintenance, installation of green screen along the yard perimeter fence, and water line excavations. Material delivery and pulling wire into the trailers was conducted at Material Yard 28.
4. Work continued on Segment 5 at Towers 58A to 62. Activities included foundation drilling, equipment delivery, BMP installation, assembling forms for the pole foundations, and setting steel rebar cages in foundation holes (Figure 2).

**Environmental Compliance:**

1. On September 24, survey crews staking new tower positions damaged an archaeological feature at a tower site on the Segment 5. The CPUC was not notified of this damage for four days. An initial incident report was submitted to the CPUC and the ANF on October 4 and was followed by a treatment plan for the damage to the site. The treatment plan is currently under review by the Lead Agencies.
2. A Level 1 non-compliance was issued by ICF, International on October 1, 2010 for vehicles parking outside the Racetrack Yard, along the western fence.
3. Approximately 48 juniper trees were removed during grubbing and 7 silvery legless lizards were relocated outside the work area on Segment 5, Towers 58A to 62.
4. Contractor vehicles and equipment drove outside the disturbance limits in two areas near Tower 34. Vegetation was crushed, but no resources were damaged. The monitors conducted a tailgate onsite with the crew to address the work limits. Additional t-posts were installed at these sites.
5. The CPUC EM met with a cultural monitor to verify staking and flagging at the Rodeo Yard. The contractor is only occupying the Rodeo North parcel for now.
6. While verifying ESA flagging and disturbance limits on Segment 5, Towers 30 thru 47, the CPUC EM noted that access roads were not clearly marked. The contractor was told that additional flagging would be required.

One SCE non-compliance was issued during the subject period for TRTP construction activities. No CPUC Non-Compliance Reports or Project Memoranda were issued for Segment 4, 5 & 10 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

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

**Summary of Activity**

1. The Final EIS was released by the Angeles National Forest (ANF) on September 14, 2010. The ANF Record of Decision was issued on October 4, 2010, and the Special Use Permit is anticipated for release in early-December. Construction is expected to begin in late-2010 or early-2011.

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

**Summary of Activity**

1. During the subject period, SCE crews continued work on the Rio Hondo–Amador-Jose-Mesa line. SCE crews performed work on a tower north of Ramona Boulevard (see Figure 3), where they rearranged line connections from a wooden power line to the tower. SCE crews also continued work on the Chino Substation 66 kV Relocation in the City of Chino. Work included the framing and setting of lightweight steel poles between Eucalyptus Avenue and Chino Hills Parkway.
2. Work on Segment 8 Telecom occurred in the City of Chino along Highway 71 between North Ranch Road and Old Pomona Road. Aerial work included installation of anchors and guy lines, and tensioning of wire, as well as pole installation. The underground portion of Segment 8 Telecom has been completed.
3. Demolition of the Chino-Mesa 220 kV towers continued in the City of Industry in Tonner Canyon, Segment 8, Phase I (see Figure 4). Crews removed hardware and wires from Towers M56-T4 east through M58-T3. Wire was removed between M57-T2 and M58-T3 using V-grooves and ropes to avoid letting the wire hit the vegetation or the ground. After the wire was removed between towers M57-T2 and M56-T4, the ropes were removed using a helicopter.
4. Construction in Segment 8, Phase 2 began with the wreck-out of the Chino-Mira Loma No. 1 structures in the cities of Chino and Ontario. Work included the removal of hardware and wire between Towers M0-T4 and M3-T4 (see Figure 5).
5. During the subject period, preparation for material delivery at Mesa Yard concluded.
6. Activity during the subject period at Rancho Vista Yard included the delivery of materials and the ground application of a polymer for dust suppression.
7. Work at Mira Loma Peaker Yard consisted of yard maintenance. Wilson Construction, the contractor for Segments 7 and 8, is utilizing the yard for morning tailboard meetings.

**Environmental Compliance:**

1. An incident report including any resource damage that occurred during the wire drop at Tower M57-T2 in Segment 8, Phase I, has been requested by the CPUC.

No Non-Compliance Reports 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 Table 4.

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

None

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

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

**TABLE 1**  
**CPUC NTPs & ANF PERMITTING**  
(Updated 10/15/2010)

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.

NTP #/ Permit	Date Requested	Date Issued	Segment #	Description
#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
#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
#16	08/30/10	09/13/10	4	Segment 4 Transmission Line
#17	08/10/10	09/24/10	7	Segment 7 Transmission Line
#18	10/13/10	10/15/10	7	Potrero Grande Contractor Yard
	06/22/10	Under review	9	Whirlwind Substation
	10/08/10	Under review	10	Segment 10 Telecom.
ANF PERMTTING – Segment 1, 6 & 11				
	11/29/07	12/14/07	1	Radio Repeater – installation of a temporary radio repeater site on Sierra Pelona Ridge to provide communication during construction activities tied to the project. Improvement installation began Jan. 11
	09/27/07	12/14/07	1	Geotechnical testing – 23 geotechnical borings are authorized on National Forest lands to provide additional information that will be used in the design of the transmission towers. Notice to proceed was signed Jan 31 to begin work the week of Feb. 3
		07/14/08	1	Removal of the 66 kV conductor within the ANF, from tower 7-3 (near southern Forest boundary) to 16-3 (near Bouquet Reservoir) Phase I.
		09/23/08	1	Removal of the 66 kV conductor within the ANF, Phase II
		10/23/08	1	Construction of the 500 kV transmission line and wreck-out of the 66 kV towers in the ANF, Section 2.

## 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 10/15/2010)

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.
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	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

Variance Request	Date Requested	Date Issued	Segment #	Description
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.

**TABLE 3**  
**TEMPORARY EXTRA WORKSPACE (TEWS) REQUESTS**  
(Updated 10/15/2010)

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				
#1	9/30/10	9/30/10	7	Re-phasing work at a tower not previously identified on Rio Hondo-Amador-Jose-Mesa 66 kV

**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 10/15/2010)

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.

Type	Date	Location	Description
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 Rockyford 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.
Incident/Level 1 SCE NCR	09/9/10	Mesa Material Storage Yard	Water truck spraying water into jurisdictional drainage.
Incident/Level 1 SCE NCR	9/21/10	Mesa Material Storage Yard	SCE contractor on-site before biological sweep was completed.
Incident	9/21/10	Segment 8, Phase I	Wire drop at Tower M57-T2. Incident report has been requested by the CPUC.
Incident/Level 1 SCE NCR	9/24/10	Segment 5	Resource damage to a cultural site by survey crews.
Incident/Level 1 SCE NCR	10/1/10	Racetrack Yard	ICF, International (Biological Monitoring) issued an NCR for parking of vehicles outside the Yard boundaries.



## PROJECT PHOTOGRAPHS



**Figure 1:** Segment 4, Tower 34 bridge installation



**Figure 2:** Segment 5, Tower 61 foundation drilling



**Figure 3:** On the Rio Hondo–Amador-Jose-Mesa 66 kV line, crews rearrange a line connection on a tower north of Ramona Boulevard.



**Figure 4:** In Tonner Canyon, crews install travelers on old transmission lines prior to removal.



**Figure 5:** Segment 8 Phase 2, crews remove hardware at M0-T2 adjacent to Chino Substation.