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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 26, 2010
Subject: Weekly Reports 119-120 — April 25 to May 8, 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;
- Antelope Transmission Project, Segments 2, 3A and 3B, including the Windhub and Highwind Substations; and
- Tehachapi Renewable Transmission Project, Segments 4 through 11.

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 Monitor (EM): Jenny Slaughter

SEGMENT 1: ANTELOPE-PARDEE

Summary of Activity:

1. Grubbing and grading of the Antelope Substation expansion area began on April 29th. The expansion grading is taking place in stages. Equipment laydown areas have been established in the northeast corner of the expansion area.
2. The Sagebrush 220 kV transmission line relocation began surrounding the Antelope expansion area. Foundation drilling and concrete pouring took place in the six new tubular steel pole (TSP) locations.
3. No work on the 66 kV transmission line relocation surrounding the Antelope Substation expansion area took place during the subject period. Previously, the underground portion had been installed and foundations for the riser poles were completed. Crews will return at a later time to install the poles and string the conductor.
4. Erosion problems have been identified at several locations in Segment 1 including Towers 9 and 99. Repairs have yet to be conducted.
5. Habitat restoration continued 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. Bird nesting clearance surveys are being conducted in advance of construction or restoration activities as required by adopted mitigation measures. New nests discovered in Segment 1 included five house finch nests at the Avenue I yard. The California quail nest near the Antelope Substation was depredated.



2. On April 21st, the adult horned lark flushed off a nest while construction was occurring nearby and did not return for over 1½ hours. Due to the prolonged absence of the adult bird and the descending temperature, SCE recovered the eggs and transported them to a rehabilitation facility for incubation. The status of these eggs is expected to be submitted to the resource agencies and the CPUC.
3. Erosion repairs are taking place by both ECORP/Nature's Image and PAR construction as needed. Major repairs needed at Towers 9 and 99 are expected to take place in the next few weeks.

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

Summary of Activity:

The Notice to Proceed for Segment 2 construction (NTP #14) was issued by the CPUC on September 30, 2008. Segment 2 involves the construction of a new 21.0-mile single-circuit 500 kV transmission line initially to be 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 incorporated Los Angeles County. Segment 2 construction activities have been completed and the Segment 2 transmission line was energized on December 17th.

1. No work associated with Segment 2 took place during the subject period.

Environmental Compliance:

1. Hydroseeding for erosion control has been completed throughout Segment 2. Revegetation is planned for the fall of 2010.

No Non-Compliance Reports were issued for Segment 2 construction activities. 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 involves the construction of a new 25.6-mile 500 kV transmission line initially 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 expected to begin in the fall of 2010.

Summary of Activity

1. Road capping was completed along an overland travel route to access Tower 43 (see Figure 1). Both the tower and a portion of the access road are within an archaeologically sensitive area.
2. Construction of the Oak Peak microwave tower continued. Crews completed the assembly and dish attachment. Cable installation began and will take approximately three weeks to complete.
3. Construction continued at the Windhub Substation.

Environmental Compliance:

1. PAR Construction delivered three pieces of heavy equipment to Tower 43 without the required cultural and biological monitors present. This area is considered environmentally sensitive because of the cultural resources present and the potential for desert tortoise. A Project Memorandum was issued on April 27 by the CPUC EM documenting this activity. SCE provided a detailed write up and evaluation of the activity and determined that no resources were impacted.
2. An active house finch nest was located within the Windhub Substation. A reduced buffer was approved by CDFG to allow for workers to remove adjacent materials.
3. 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.

One Project Memoranda was issued for Segment 3 construction activities. 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 and Vincent Substation expansion.

Summary of Activity

1. Activities continued under CPUC NTP #2 for the expansion of the Vincent Substation. Fiber rolls were installed around the perimeter of the expansion area, per the project SWPPP. Grading of the expansion area has yet to occur. Other activities included the installation of a concrete wash-out, foundation prep-work, and cable trenching within the existing substation area (see Figure 2). Topsoil salvage took place for a small, cleared area and is being stored onsite.
2. The Rancho Vista Yard in Rancho Cucamonga was graded and fenced and is ready for material delivery.

Environmental Compliance:

1. Several new nests were identified near the Vincent Substation during the subject period. A California quail nest was found and a 300-foot buffer was established. The nest was later found to be depredated and the buffer was removed. Two special status species were identified in the area of the expansion, a coast horned lizard and a Loggerhead shrike. A 300-foot buffer was established for the bird nest.
2. A buffer reduction was approved by CDFG for the house finch nest located adjacent to the Rancho Vista Yard. A new Northern mockingbird nest was identified and a 300-foot buffer was established (see Figure 3). Both nests successfully fledged and the construction buffers were removed.
3. During a site visit to the proposed Mesa Yard in Monterey Park, the CPUC EM observed an SCE crew conducting vegetation removal in the area. A memorandum was submitted to SCE seeking an explanation of the observed activities. It was reported by SCE that the vegetation removal activities were related to Operation & Maintenance clearing of the existing transmission line right-of-way; however, no written response has been provided to date.

No Non-Compliance Reports or Project Memoranda were issued during the subject week 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: In use
- Mojave Yard, Segments 2 & 3A: In use.
- Highwind Yard, Segment 3B: Has not been constructed
- Avenue J Yard, Segments 4-11: In use.
- Yard 28, Segments 4-11: Established. Material delivery expected early-June.
- Rodeo Yard, Segments 6 & 11: In use for geotechnical work on ANF
- Huntington Drive Yard, Segments 6 & 11: In use for geotechnical work on ANF
- 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 05/26/2010)

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.

NTP #/ Permit	Date Requested	Date Issued	Segment #	Description
CPUC Addendum	03/17/10	03/26/10	3A	Vertical mulching, capping of a portion of the existing roadway, and making this overland route a permanent access for SCE operations and maintenance to Const 43.
CPUC Addendum	04/06/10	04/27/10	3B	Elimination of transposition towers in Segment 3B.
CPUC Addendum	04/16/10	04/22/10	1	Installation of fiber optics surrounding the Antelope Expansion.
CPUC Addendum	05/25/10	Under review	1 & 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
#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
CPUC Addendum	04/09/10	04/19/10	9	Changes to Substation components.
	04/08/10	Under review	7, 8	66 kV re-route and relocation
	04/27/10	Under review	8	Segment 8 Contractor Yards
	05/08/10	Under review	8	Segment 8 Transmission Line, Chino Hills, Phase I
	05/12/10	Under review	8	Segment 8 telecommunications.
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 05/26/2010)

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.
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	Under review	7	Relocation of helicopter landing zone for Segment 7 telecommunications work.

TABLE 3
TEMPORARY EXTRA WORKSPACE (TEWS) REQUESTS
(Updated 05/26/2010)

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 05/26/2010)

Type	Date	Location	Description
Non-Compliances, Project Memoranda & Other Incidents, Segments 1-3			
<i>For Non-Compliances, Project Memoranda & 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.
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.

PROJECT PHOTOGRAPHS



Figure 1: Road capping was completed to provide Operation and Maintenance access to Tower 43 in Segment 3A.



Figure 2: Construction at the Vincent Substation within the existing substation.



Figure 3: Resource buffer established for a Northern mockingbird nest at the Rancho Vista Yard.