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**PROJECT MEMORANDUM  
SCE EL CASCO SYSTEM PROJECT**

**To:** Lynne Mosley, CPUC  
**From:** Vida Strong, Aspen Project Manager  
**Date:** January 4, 2013  
**Subject:** Report 55: October 20, 2012 – January 4, 2013

**CPUC ENVIRONMENTAL MONITORS (EM): Justin Wood**

CPUC EM was on site October 30<sup>th</sup> during the subject period. In addition, the CPUC EM coordinated with SCE project personnel regarding ongoing restoration and construction scheduling.

The SCE El Casco Project includes the following components:

- Construction of the new El Casco 220/115/12-kilovolt (kV) Substation within the Norton Younglove Reserve, Riverside County, California;
- Replacement of approximately 15.4 miles of existing single-circuit 115 kV subtransmission lines with new, higher capacity single-circuit 115 kV subtransmission lines and replacement of support structures within existing SCE ROWs in the Cities of Banning and Beaumont and unincorporated Riverside County;
- Rebuilding 115 kV switchracks within Zanja and Banning Substations in the Cities of Yucaipa and Banning, San Bernardino and Riverside Counties, respectively;
- Installation of telecommunications equipment at the El Casco Substation; and
- Installation of fiber optic cables within public streets and on existing SCE structures between the Cities of Redlands and Banning in San Bernardino and Riverside Counties, respectively.

**EL CASCO SUBSTATION**

Work has been completed within the El Casco Substation.

In the vicinity of the Substation, crews continued working on the restoration of the temporary work areas. The irrigation well is not currently working so some of the recently installed container plants have died, including many of the oaks that were planted on the slope adjacent to the substation pad. There is no word on when the well will be repaired or container plants replaced. Crews decided to abandon the smooth tarplant mitigation site that they had been trying to gain control of the non-native species in. The non-natives were unmanageable and the site was determined to not provide suitable habitat for smooth tarplant. SCE worked with resource agencies and have decided to do the smooth plant mitigation within the temporary work space adjacent to the new substation access driveway. They are currently preparing this area for seeding. Crews have been continuing to apply herbicide as needed and are continuing to compact the soils to make the site more suitable for smooth tarplant. Sheep grazing is continuing to be an issue around the substation, but SCE has been unable to resolve the problem.

**BANNING SUBSTATION**

Work has been completed at the Banning Substation.



## **ZANJA SUBSTATION**

All work has been completed within the Zanja Substation.

Erosion control hydroseeding with a native plant mix was applied on September 17<sup>th</sup>, and the week of December 6<sup>th</sup> 2010, and December 14, 2011. The vegetation was mowed in April of 2012 for fire fuel abatement, but the native shrubs are continuing to mature. California buckwheat (*Eriogonum fasciculatum*) continued to be the dominant species in the temporary work areas.

## **115-kV SUB-TRANSMISSION LINE REPLACEMENT**

The Notice to Proceed (NTP) request for the 115 kV sub-transmission work was submitted to CPUC by SCE on March 3, 2009. On January 5, 2010, NTP #7 was issued to begin construction of Segment 3 while pending submittals and analysis for the other segments are being processed. Segment 3 is a one to one pole replacement within the Sun Lakes Development in Banning between Highland Springs Road and Highland Home Road. Work has been completed on Segment 3.

Notice to Proceed #8 for construction of Segments 5 through 8 was issued by CPUC on July 19, 2010. Work on Segment 8 began on October 26, 2010. All of Segment 8 has been completed. During the subject period crews continued to make good progress on Segments 5, 6, and 7 and are nearly complete with work on these segments (see Figure 1).

Notice to Proceed #9 for construction of Segment 1 was issued by the CPUC on February 22, 2012. At the end of the subject period, all work on Segment 1 had been completed, with the exception stringing the new conductor, heading south from the Banning Substation. During the subject period it was determined that a Banning Electric Company line was run on an SCE pole and was interfering with their ability to run new conductor. This issue is currently being resolved.

Notice to Proceed #10 for construction of Segment 2 and 4 was issued by the CPUC on May 18, 2012. Work on Segments 2 and 4 began on June 25, 2012. At the end of the subject period, most of the poles along Segments 2 and 4 had been installed and some portions of the new conductor had been installed (see Figure 2). Many of the old wooden poles are continuing to be removed as work progresses. During the subject period crews made good progress on the new poles in the vicinity of Montgomery Creek, where the Los Angeles pocket mice had been trapped. They completed the installation of the new poles that allows the line to span the sensitive habitat (see Figure 3).

## **CONSTRUCTION YARDS & OTHER WORKSPACE NEEDS**

Variance Request #1 for a laydown yard immediately south of SCE's existing Maraschino Substation in the City of Beaumont, Riverside County, was approved by CPUC on April 16, 2009. Construction of the laydown yard began on May 28 and was completed by June 12, 2009. The yard is currently being used for the storage of materials, including transmission towers.

## **ENVIRONMENTAL COMPLIANCE**

- Biological mitigation monitoring is still being provided by Environmental Intelligence (EI), LLC (formerly Natural Resource Consultants). During the subject period, EI Biological Monitors were continually present during construction along the sub-transmission line work on all Segments as well as at El Casco Substation during landscaping activities.
- Equipment was continually checked for air pollution control compliance. The Chambers monitor continued to check equipment for leakage. Dust and track out are no longer problems at the El Casco Substation since construction of the substation pad is completed and the roadways have been paved.

Table 1 provides a summary of the Non-Compliance Reports (NCRs) and Project Memorandum (PM), and other incidents (i.e., spills, etc.) for the SCE El Casco System Project.

**TABLE 1  
NCRs, PROJECT MEMORANDA, AND OTHER INCIDENTS  
(Updated 01-04-13)**

<b>Type</b>	<b>Date Issued</b>	<b>Description</b>
PM #1	03/16/09	Failure to comply with Mitigation Measure B-18 before, during and after vegetation clearing at the El Casco Substation site. Construction equipment went outside of approved Project boundaries.
	08/21/09	A SCE internal noncompliance at the Banning Substation was issued for mobilization of the site before environmental training and biological pre-construction sweep were conducted.
PM #2	08/27/09	The initiation of construction activity before CPUC authorization and validation of the biological survey at the site of the NTP #3, MOD #1 pole work in Banning.
PM #3	01/14/10	Use of an unapproved area for staging and parking at the Zanja Substation site.
PM #4	03/16/10	Riparian work during nesting bird season along El Casco Substation access road.
PM #5	04/16/10	Installation of a Section of Fiber Optic Cable without CPUC Notification of Route Change or Prior Biological Survey
Incident	06/21/10	SCE O&M grading on restricted access road.
PM #6	08/11/10	Construction activity without a Biological Monitor present within 500 ft. of the riparian corridor, and no noise monitoring.

**NOTICE TO PROCEED (NTP) SUMMARY**

Table 2 summarizes the NTPs submitted, reviewed, and issued to date for the SCE El Casco System Project.

**TABLE 2  
NOTICES TO PROCEED  
(Updated 01-04-13)**

<b>NTP #</b>	<b>Date Requested</b>	<b>Date Issued</b>	<b>Description</b>
#1	02/20/09	02/23/09	Vegetation clearing activities at the future El Casco Substation Site located in the Norton Younglove Reserve Area in Riverside County.
#2	05/15/09	05/22/09	Construction of the underground fiber optic elements of the El Casco System Project in the Cities of Banning and Beaumont.
#3	04/10/09	08/13/09	Banning Substation
#3 Mod #1	08/21/09	08/26/09	Modify work within Banning Substation and add work at 3 existing transmission poles located outside of the substation.
#4	03/05/09	8/27/09	Fiber optic cable installation, remaining (see NTP #2).
#4 Mod #1	09/30/09	10/02/09	Tree trimming.
#5	05/08/09	8/27/09	El Casco Substation construction.
#6	06/19/09	12/02/09	Zanja Substation
# 6 Mod #1	08/13/10	8/23/10	Replace old lattice tower with lightweight steel pole outside of Zanja Substation.
#7	12/17/09	01/05/10	Segment 3 of 115 kV subtrans element.
N/A	06/19/09	N/A	Mill Creek Communication Site – requested work suspended.
#8	02/26/10	07/19/10	Segments 5-8 of the 115 kV subtrans element.

<b>NTP #</b>	<b>Date Requested</b>	<b>Date Issued</b>	<b>Description</b>
Addendum	12/06/10	12/14/10	Permanent road extensions to two pole locations along subtrans Segment 8.
#9	2/2/12	2/22/12	Segment 1 of the 115 kV subtrans element.
# 10	03/03/09	5/18/12	115 kV Sub-transmission lines replacement, Segments 2 & 4.

### VARIANCE & TEWS REQUEST SUMMARY

Tables 3 and 4 summarize the Variance and Temporary Extra Workspace (TEWS) Requests submitted, reviewed, and issued to date for the SCE El Casco System Project, respectively.

**TABLE 3  
VARIANCE REQUESTS  
(Updated 01-04-13)**

<b>Variance #</b>	<b>Date Requested</b>	<b>Date Issued</b>	<b>Description</b>
#1	04/01/09	04/16/09	Usage of an empty fenced lot immediately south of SCE's existing Maraschino Substation, Beaumont, Riverside County, as a laydown yard to support Project construction.
#2	10/01/09	10/09/09	Placement of two water tanks and above ground pipe to feed water needs at the El Casco Substation site.
#3	09/30/09	10/15/09	FOC Temporary Circuitry: Banning and Calimesa Shoo Flies.
#4	09/30/09	10/15/09	Alternate Access to the Banning Substation from John Street.
#5	09/22/09	10/23/09	SCE has asserted within the variance request that several Geo & Hydro Mitigation Measures should not be required for the 115 kV Subtransmission Line Element.
#6	10/23/09	10/27/09	Installation of a Portable Fuel Tank at the El Casco Substation site.
#7	10/27/09	10/29/09	Project Description change from underground to overhead installation for fiber optics circuitry along Colton Avenue in the vicinity of the Mentone Substation.
#8	10/29/09	10/29/09	Removal of five Fremont cottonwood trees that are impacted by the construction of the access road to the El Casco Substation site.
#9	01/11/10	01/12/10	Sunday work on FOC shoo-fly segment during scheduled line outage.
#10	01/14/10	01/19/10	Use of the area east of the Zanja Substation fence line for parking and staging purposes.
#11	06/24/10	06/25/10	Sunday work on the FOC installation across Interstate 10 during minimum freeway traffic hours.
#12	07/22/10	07/23/10	Sunday work on the FOC installation across Highway 60 and Western Knolls Avenue during minimum freeway traffic hours.
#13	08/05/10	08/06/10	Nighttime deliveries of 220/115 kV transformer banks on August 13 <sup>th</sup> and August 17 <sup>th</sup> .
#14	09/08/10	09/13/10	Extended work hours to conduct the transfer of 50,000 gallons of oil into the two 220/115 kV transformer banks at ECSP
MOD #14	10/07/10	10/08/10	Extended work hours to conduct the transfer of oil into two additional 220/115 kV transformer banks at ECSP
#15	11/12/10	11/16/10	Extended work hours to conduct telecom splicing work and well pump testing at ECSP
#16	02/09/11	02/10/11	Extended work hours to continue work on the v-ditch at ECSP

<b>Variance #</b>	<b>Date Requested</b>	<b>Date Issued</b>	<b>Description</b>
#17	02/25/11	02/25/11	Sunday work on segment 7 requested. Variance approved with conditions, SCE chose to stop work and to not proceed with approval.
#18	09/23/11	10/07/11	Four additional extra workspace areas located in Segments 7 and 8.
#19	10/28/11	11/02/11	Nighttime installation of five new tubular steel poles within Segment 8.
#20	09/05/12	09/07/12	Installation of two temporary poles in Segment 2 to meet biological and regulated water permits schedule requirements.

**TABLE 4**  
**TEMPORARY EXTRA WORK SPACE REQUESTS**  
**(Updated 01-04-13)**

<b>TEWS #</b>	<b>Date Requested</b>	<b>Date Issued</b>	<b>Description</b>
#1	04/17/09	04/23/09	Fiber Optic material storage at the pre-existing Zanja Substation, Yucaipa, San Bernardino County
#2	07/20/09		Staging area in a vacant lot north of First Street and west of Highland Springs Road.
#3	02/04/10	02/05/10	Distribution line crew access through an adjacent privately owned field to set equipment on existing poles.

## PROJECT PHOTOS



Figure 1: View of completed portion of Segment 5 crossing Smith Creek. The photograph faces southeast.



Figure 2: View of crews pulling new conductor on Segment 4. The photograph faces southeast.



Figure 3: View of crews installing new steel poles on Segment 2 where the alignment crosses Montgomery Creek. The poles in the photo are the two temporary poles and the new pole can be seen in the background being lifted by a crane. The photograph faces east.