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**PROJECT MEMORANDUM
SDG&E'S SUNRISE POWERLINK PROJECT**

To: Billie Blanchard, Project Manager, CPUC
From: Vida Strong, Aspen Project Manager
Date: June 8, 2011
Subject: Weekly Report 36 – May 22 to May 28, 2011

INTRODUCTION

This report provides a summary of the construction and compliance activities associated with the SDG&E Sunrise Powerlink Project. This report is organized as follows:

- Transmission Line Construction
- Substation Construction and Upgrades
- Construction Yards and Other Workspaces

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): Cassandra Garza, Brian Woodward and Valerie Yep

TRANSMISSION LINE CONSTRUCTION

Summary of Activity:

1. Link 1, 500 kV Overhead Transmission Line:

Non-Federal Lands:

- Conventional structure assembly took place at Tower EP220-1.
- Micropile drilling occurred at EP223-1.

BLM Lands:

- Concrete was poured at EP321, EP322, EP328, EP329, EP331, EP332, and EP360.
- Foundation work (capping, curing, cage installation, etc.) was conducted at EP321, EP322, EP327, EP328, EP329, EP331, EP332, EP336, EP337, EP338, EP339, EP341, EP359, and EP360.
- Concrete cleanup and demobilization took place at EP329, EP331, EP332, EP334, and EP360.
- Soil boring was conducted at EP319, EP323, EP324, and EP342.
- Fault trenching took place at EP335.
- Steel assembly occurred at EP328, EP329, EP336, and EP337.

2. Link 2, 500 kV Overhead Transmission Line:

Non-Federal Lands:

- Pile trimming, grouting, redrilling, and testing occurred at EP84.
- Micropile drilling occurred at EP85-2.
- Grouting occurred at EP86-1.
- Fence installation occurred around a communication tower at EP87-1TSAP.



3. Link 4, 220 kV Underground Transmission Line (non-federal lands only):

- Potholing occurred at Vault V14R.
- Excavating occurred at V10L, V12R, V13R, and the Alpine Creek Bore Site.
- Transitions (Ins-and-Outs) occurred at V2L, V6R, and V9R.
- Trenching occurred from V2L to V3L, V7L to V8L, V6R to V7R, and V11L to V13L.
- Pre-drilling and drilling occurred from V3R to V6R.
- Saw cutting occurred from V4R to V5R and V9L to V10L.
- Encasement pouring occurred from V2L to V3L.
- Proofing occurred from V2L to V4L and V5L to V6L.
- Milling and setting plates occurred at V3L and V4R, and from V11L to V12L and V6R to V7R.
- Paving occurred from V2L to V3L, at V6R, from V7L to V8L, and at V16L and V12R.
- Vault setting occurred at V12R.
- Bridge attachment work occurred at the Viejas Creek Bridge.
- Shoring occurred at the Alpine Creek Bore Site.
- Cable pulling and testing occurred from V12L to V13L and V14L to V15L.
- Grading occurred at the Loritz Property
- Striping occurred on Alpine Boulevard.
- Hand digging of pole holes for acoustic reduction blankets occurred at Bauer Bridge (see Figures 1 and 2).
- Excavation and backfilling occurred at the Interstate 8 (I-8) bore site.

4. Link 5:

Non-Federal Lands, 220 kV Overhead Transmission Line:

- No construction activity occurred during the reporting period for Link 5, 220 kV.

Non-Federal Lands, 69 kV Reconductoring Line

- Scripps Underground crews:
 - Pumped and cleaned all manholes (MH).
 - Spliced and terminated MH120988 and MH120986.
 - Pulled new cable from Scripps Substation to MH120984, MH120986, and MH120988 and between MH120986 and MH120984.
 - Spliced and terminated MH120987 and MH 120984.
 - Spliced and terminated the rack within the Scripps Substation.
- Rue Biarritz Underground crews:
 - Continued with cleaning conduit and pulling new conductor, repairing sidewalks, and reclamation of lawn area near Structure 973033.
 - Worked on cleaning conduit and pulling new conductor.
 - Continued backfilling trench and repairing concrete sidewalks.
- Alliant Pull Site crews:
 - Completed the clipping and sagging of conductors between Pole 771473 and Rue Biarritz (Pole 973032).
 - Pulled new conductor (restring) on the section between Pole 771473 and Rue Biarritz (Pole 973032).
 - Staged equipment at Pole 771473 in preparation for restringing of the section between Alliant Pull Site (Pole 771473) and Rue Biarritz (Pole 973032).
- Installation of underground riser (conduit) at Pole 973033 was completed.
- Clipping and sagging of new cable at Poles 774824, 774823, and 774819 was completed.
- Reframe work on Structure 171647 was completed.
- Reframe work started in Marine Air Station Miramar between Structures 171671 and 171647.

Environmental Compliance:

1. Biological, Cultural, and Native American monitors were present as applicable during all transmission line construction activities.
2. Unanticipated cultural and paleontological discoveries were made on Link 1 on May 24, 25, and 26. In all instances the procedures and guidelines for Treatment for Unanticipated Discoveries as set forth in the Final Historic Properties Management Plan were implemented. ESA flagging was installed around the discoveries and no impact occurred.
3. Five flat-tailed horned lizard (*Phrynosoma mcalli*) were relocated from work areas near EP321, EP324, EP357, EP359, and EP360 by permitted biologists (see Figure 3).
4. On May 26, it was noted to the Link Lead that excessive amounts of dust were seen coming from vehicles using the access road to EP363-1. Corrective action was taken and there have been no further issues.
5. Dust generated by helicopter activities at EP85-2 and EP86-1 was controlled with water.
6. BMPs were installed or refreshed on access roads, TSAPs, and pads associated with structures on Link 1:

Non-Federal Lands:

- Jacumba Valley Ranch (JVR) 12 kV.

BLM Lands:

- EP313-N, EP316, EP318, EP317-E through EP322-E, access road to Dunaway Yard, EP359-E through EP360-E, EP331-E through EP341-E, EP331, EP332, EP334, EP336, EP337, EP338, EP339, EP342, EP351, EP356, EP358, EP359, EP362, and EP363.

7. BMPs were installed or refreshed on access roads, TSAPs, and pads associated with structures on Link 2:

Non-Federal Lands:

- EP79, EP85, and EP93.

BLM Lands:

- None.

8. Link 4 (non-federal lands only):

- On the Bauer property, a black-chinned hummingbird was observed flushing from the nest during excavation activity. The biologist recommended, and the construction crew complied with, halting activity intermittently throughout the day to allow the bird to return to the nest. A visual barrier was also erected which encouraged the hummingbird to remain on the nest for longer periods of time.
- BMP installation and/or maintenance continued along Alpine Boulevard and the Bauer and Loritz properties.
- On May 25, a release of half a gallon of hydraulic fluid from a failed hose on the track-hoe occurred at the jack and bore site, ¼ mile west of Peutz Valley Road, between Alpine Boulevard and the I-8 Freeway,. The release was immediately contained, cleaned up, and reported to the Caltrans HazMat Manager.

9. Link 5 (non-federal lands):

- BMP crew completed maintenance work at Structures 973035 through 678465 on TL6916. BMP crew completed maintenance work on Structures 171647 through 775953 on TL639.
- BMP installation and maintenance occurred at CP25-2, CP25-2, CP20, and from CP40 to CP42.
- 69 kV Reconductoring: On May 25 and 26, three separate releases (release of 4 to 5 ounces and second release of a few drops of hydraulic fluid, and 2 ounce release of motor oil) occurred on Scripps Ranch Boulevard, near the intersection of Aviary Drive, San Diego. The releases were immediately contained and cleaned up.

10. Pre-Construction surveys were performed throughout Link 1, 2 and 5 with appropriate monitors.

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

Agency Representatives during Construction (other than EMs):

None.

SUBSTATION CONSTRUCTION AND UPGRADES

Summary of Activity:

1. Suncrest Substation, Link 3 (non-federal lands): Rough grading continued on the pad. Select fill material was placed in the northwest portion of the pad to bring it up to final grade and installation of the permanent drainage system continued. Rock and soil was hauled to the southern portion of the pad. Drilling and blasting occurred in several locations on the pad. Culvert installation along Bell Bluff Truck Trail (BBTT) continued. Installation of exclusion fencing at the top of soil retention walls was completed. Concrete footings were poured at Peterson Creek Crossing along BBTT.
2. Imperial Valley Substation Upgrade (BLM lands): Wiring, conduit installation, trench plate installation, and tower assembly occurred.
3. San Luis Rey Substation (non-federal lands): Crews were disassembling disconnects on the north side of the new 230 kV transformer and performing demolition on a retaining wall.
4. Encina Substation (non-federal lands): Forming was created for a 138 kV transformer pad near Bay 13. Taping the western bus in the 138 kV yard occurred. Circuit breakers in the 230 kV yard were repaired.
5. Sycamore Substation (non-federal lands): Crews formed concrete pads for potential transformers, disconnects, and circuit breakers.
6. Scripps Ranch Substation (non-federal lands): 69 kV wiring was pulled in three phases.

Environmental Compliance:

1. All applicable Biological, Cultural, Paleontological, and Native American monitors have been present during ground disturbing activities at all substations.
2. Suncrest Substation: BMP maintenance continued to be performed along BBTT following the previous week's rain event.

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

Agency Representatives during Construction (Other than CPUC EMs):

None.

CONSTRUCTION YARDS AND OTHER WORKSPACES:

Summary of Activity:

Non-Federal Lands:

1. Material storage continued at the Alpine Construction Yard.
2. Trenching occurred in a previously disturbed area for installation of an ice machine at the Alpine Regional Field Office (Alpine RFO).
3. Tower assembly and helicopter activities continued at Jacumba Valley Ranch (JVR) Yard. 12 kV pole clean up, pole removal, and wire preparation also took place.
4. Materials storage and helicopter activities continued at Rough Acres Yard. Weed clearing also occurred.

5. No work occurred at Thomas Yard during this reporting period.
6. Tower assembly continued at Wilson Yard.
7. Tower assembly occurred at the Helix Construction Yard.
8. No work occurred at the SWAT Construction Yard during this reporting period.
9. Tower assembly occurred at the Hartung Construction Yard.
10. Tower assembly occurred at the Bartlett-Hauser Construction Yard. The yard was also utilized for helicopter operations.
11. Tower assembly occurred at the Kreutzkamp Construction Yard.

BLM Lands:

12. Tower assembly continued at Dunaway Yard.
13. Construction began May 26 at the Imperial Valley (IV) Yard.
14. Tower assembly continued at Plaster City Yard. Grading and installation of gravel took place. Rumble plates were installed.
15. Fence installation began at S2 Yard.

Environmental Compliance:

1. Biological, Cultural, and Native American monitors have worked with crews at the construction yards to define approved work areas and sites to avoid.
2. Approximately 300 juvenile western toads (*Anaxyrus boreas*), one adult western toad, two gopher snakes (*Pituophis catenifer annectens*), four tiger whiptail lizards (*Aspidoscelis tigris*), one deer mouse, one wolf spider, one kangaroo rat, and thirteen (13) two-striped gartersnakes were relocated from the Kreutzkamp Construction Yard. One two-striped gartersnake (*Thamnophis hammondi*) was found dead on the access road to the Kreutzkamp Construction Yard.
3. One dead two-striped garter snake was dropped by a hawk into the Alpine Yard. One (1) olive-sided flycatcher was found on the grill of a work truck in the parking lot at Alpine headquarters.

No Non-Compliance Reports or Project Memorandums were issued during the subject period for Construction Yards and other workspace 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)

Table 1 summarizes the CPUC Notice to Proceed activity for the SDG&E Sunrise Powerlink Project to date.

TABLE 1
CPUC NTPs
 (Updated 06/08/2011)

NTP#	Date Requested	Date Issued	Segment #	Description
#1	01/04/10	04/28/10	25	San Luis Rey Substation Upgrades
#2	02/08/10	04/29/10	23	South Bay Substation Upgrades
#3	02/26/10	05/20/10	Yard	Alpine Yard 18
#4	01/26/10	05/28/10	Yard	Alpine Yard 18A
#5	02/05/10	09/28/10	Yard	Rough Acres Yard, Phase 1
#6	05/26/10	09/28/10	24	Encina Substation Upgrades
#7	05/28/10	09/28/10	Telecomm	White Star Communication Facility
#8	06/09/10	10/06/10	Substation	Pomerado Substation Upgrades
#9	06/09/10	10/06/10	Substation	Scripps Switchyard/Substation Upgrades
#10	10/13/10	11/23/10	15	Link 4, Alpine 230 kV Underground Construction
#11	10/19/10	12/15/10	13	Link 3, Suncrest Substation/Wilson Construction Yard
#12	11/30/10	12/23/10	Yard	Rough Acres Yard, Phase 2
#13	11/09/10	01/14/11	2-18, 20-22	Links 1, 2, and 5, overhead construction on non-federal lands
BLM #1	01/19/11	02/03/11	1	Imperial Valley Substation upgrades.
BLM #2	03/28/11	04/04/11	2-12, 16-17	Links 1, 2, and 5 overhead construction on BLM lands.

VARIANCE & TEMPORARY EXTRA WORKSPACE REQUESTS

Variance and Temporary Extra Workspace (TEWS) requests submitted to date are presented in Tables 2 and 3, respectively.

TABLE 2
VARIANCE REQUESTS
(Updated 06/08/2011)

Variance Request	Date Requested	Date Issued	Segment #	Description
#1	11/04/10	11/10/10	Yard	Thomas Yard (El Centro, CA)
#2	12/22/10	03/18/11	Yard	Sycamore Estates Construction Yard. Response to inquiry received 02/23.
#3	01/06/10	01/18/11	All	Modification to tree trimming requirements.
#3 MOD	01/25/11	01/26/11	All	Modification to brush clearing requirements.
#4	01/13/11	03/01/11	Yard	Helicopter Temporary Landing Pad area at the Alpine Regional Field Offices.
#5	02/01/11	02/09/11	Yard	Site improvements at the Wilson Construction yard and along Bell Bluff Trail
#6	02/01/11	03/01/11	Link 5	Variance from Mitigation Measure H-1a (CC) to allow work outside of the dry season.
#7	02/11/11	02/17/11	Link 3	Additional work areas for construction trailers, parking, etc.
#8	03/02/11	03/08/11	Link 2	Alternate access route to Structure EP 27.
#9	03/29/11	04/06/11	All	Perform construction activities outside of hours allowed by local ordinances with local jurisdiction approval.
#10	04/04/11 (revised)	04/14/11	Link 4	Additional construction work space at Viejas Creek Bridge.
#11	04/06/11	04/22/11	Link 1	Additional workspace east of EP215.
#12	04/15/11	04/25/11	Link 1	Additional turnaround along the access road to EP 220-1.
#13	04/13/11	05/06/11	Links 1 & 2	Two fiber optic regeneration sites.
#14	04/28/11	05/03/11	Yards	Change visual screening at Project construction yards from slats to fabric.
#15	05/12/11	05/19/11	Link 2	Alternate access to EP 84.
#16	05/16/11	05/21/11	Link 4	Additional parking space for use during underground construction.
#17	05/18/11	05/24/11	Encina Substation	Driveway improvement.

TABLE 3
TEMPORARY EXTRA WORKSPACE (TEWS) REQUESTS
 (Updated 06/08/2011)

TEWS Request	Date Requested	Date Approved	Segment #	Description
TEWS #1	11/01/10	11/01/10	White Star	Asphalt paved area for vehicle parking and staging
TEWS #2	03/17/11	03/18/11	Link 4	Parking on Puetz Valley and Alpine Blvd
TEWS #3	03/17/11	03/18/11	Link 4	Parking on Harbison Canyon and Alpine Blvd
TEWS #4	03/22/11	03/23/11	Link 5	Storage on One Father Junipero Sierra Trail
TEWS #5	03/24/11	03/24/11	Link 4	Parking at 3900 Willows Rd. West
TEWS #6	03/24/11	03/24/11	Link 4	Parking at 5840 Willows Rd. East
TEWS #7	04/14/11	4/14/11	Link 2	Northeast spur of access road to EP 84

NON-COMPLIANCES & INCIDENTS

Project Memorandum and Non-Compliance Reports that have occurred to date are presented in Table 4.

TABLE 4
NON-COMPLIANCES (NC) AND PROJECT MEMORANDA (PM)
 (Updated 06/08/2011)

Type	Date	Location	Description
PM #1	12/07/10	Thomas Yard	Failure to report unanticipated biological resources within 48 hours.
PM #2	02/11/11	EP 242, Link 1	Unauthorized ground disturbance at EP 242
NC #1	03/08/11	Suncrest Substation	Army Corp of Engineers issued NC for not complying with Special Conditions 19, 21 and 23 of DA Permit SPL-2007-00704-SAS.
PM #3	03/15/11	CP 67-3, Link 5	Staking crews operating and delivered by helicopters within Golden Eagle Buffer area.
PM #4	04/06/11	SWAT Yard	Unauthorized Nest Removal from a water truck at SWAT Construction yard.
PM #5	05/16/11	EP 340, Link 1	Operation of water trucks outside of approved disturbance areas at EP 340.

Other compliance incidents identified by SDG&E monitoring staff and/or crews are presented in Table 5.

TABLE 5
PROJECT INCIDENTS
(Updated 06/08/2011)

Type	Date	Location	Description
Incident	11/01/10	White Star	Delivery of a rebar cage outside of the approved disturbance area.
Incident	02/17/11	EP 244, Link 1	Nest incorrectly marked at entrance to EP 244.
Incident	02/18/11	Alpine HQ	Emergency weather landing and storage of 3 helicopters at Alpine HQ.
Incident	03/12/11	EP 252, Link 1	Bulldozer was delivered at site prior to CPUC clearance being given.
Incident	03/15/11	EP 214, Link 1	Dewatering approximately 1 gal of groundwater from an excavation hole without having submitted a dewatering plan to the CPUC.
Incident	04/06/11	JVR 12 kV, Link 1	Confusion on approved work areas due to varying maps having been distributed to workers and monitors.
Incident	04/07/11	JVR 12 kV, Link 1	A site was worked on prior to CPUC EM construction release having been received for the area, no resources were damaged.
Incident	05/05/11	Link 4	Three small fires were reported on Link 4 Underground. Fire tools were used by the on-site fire patrol to immediately respond per the Sunrise Fire Plan. Notification to Alpine Fire was made.
Incident	05/17/11	Link 1	BMP crew drove off the road between EP345 and EP346 and park within the ESA boundary.
Incident	06/07/11	Link 1	During the aerial delivery of a structure body to EP 339, approximately 200ft outside of Plaster City Yard, the piece fell from the sky crane. No injuries have been reported.

PROJECT PHOTOGRAPHS



Figure 1: Crews hand digging pole sites for noise blanket installation at Bauer Bridge, Link 4.



Figure 2: Acoustic monitoring device for nesting birds at Bauer Bridge during pole installation, Link 4.



Figure 3: Relocating a flat-tailed horned lizard from EP359, Link 1.