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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: July 14, 2011
Subject: Weekly Report 41 – June 26 to July 2, 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 Work-space 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 drilling was occurred at Tower EP240.
- Various foundation work including capping, curing, cage installation, etc., took place at EP240 (see Figure 1).
- Foundation QC was performed from EP208 through EP217, EP239, and EP240.
- Tower assembly was conducted at EP213, EP215, EP217, EP218, EP220, EP243, and EP244.
- Ground resistance testing was conducted at EP219, EP220-1, and EP244.

BLM Lands:

- Grading occurred at:
 - Tower sites EP300, EP307, EP308, EP309, EP348, EP350, EP351, EP352, EP353, EP354, and EP355
 - Existing Southwest Powerlink (SWPL) access roads: EP295 through EP300-1 and EP307 through EP313.
- Micropile drilling took place at EP310, EP311, EP312, and EP324.
- Conventional drilling was conducted at EP295 and EP296.
- Various foundation work including capping, curing, cage installation, etc., occurred at EP295, EP296, EP358, and EP362.
- Concrete pouring took place at EP295.
- Form removal and cleanup was conducted at EP353, EP358, and EP362.



- Tower assembly occurred at EP319, EP329, EP331, EP333, EP342, EP345, EP348, EP350, EP351, EP352, EP353, EP354, EP356, EP357, EP358, EP359, EP360, and EP361.
- Ground resistance testing was conducted at EP316, EP318, EP319, EP328, EP331, EP358, EP359, EP361, EP362, and EP363.

2. Link 2, 500 kV Overhead Transmission Line:

Non-Federal Lands:

- Site reconnaissance was conducted from EP89 to EP 93.

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

- Potholing (including verifying conduit) occurred at Vault V11R to V12R and at Viejas Creek Bridge.
- Excavation occurred at V19R.
- Transitions (Ins and Outs) occurred at V5R, V15R, and V16R.
- Trenching occurred between V2R to V3R, V7R to V8R, V9L to V10L, V12R to V14R, and V18R to V19R.
- Pre-drilling/drilling occurred near V10L, V19R, and V19R to Viejas Creek Bridge.
- Saw cutting occurred from V7R to V8R, V9R to V10R, V11R, V14R to V15R, and V18R to V19R.
- Pouring of encasement occurred from V2R to V3R.
- Pre-racking and cleaning manholes occurred at V6R, V8R, V9R, V9L, V15L, V16R, V16L, and V17L.
- Proofing occurred from V3R to V4R and V5R to V6R.
- Milling and setting plates occurred at V2R to Caltrans bore site, V7R, V10L, V15R, V12R to V13R, V16R to V17R, and V18R to V19R.
- Paving (including preparation) occurred near V2R to V3R, V7R, V9L to V10L, V15R, V16R, V18R, and V18L.
- Bridge attachment occurred at Viejas Creek Bridge.
- Cable pulling (and testing) occurred from V6L to V7L, V8R to V9R, and V8L to V9L.
- Halo was installed from V8R to V9R and V16R to V18R.
- Grading occurred at the Loritz Property.
- Work on bore and jacking/receiving pits occurred at the Interstate 8 bore site (Caltrans bore site).

4. Link 5:

Non-Federal Lands, 220 kV Overhead Transmission Line:

- Conventional drilling occurred at CP22-1 and CP40-2 (see Figure 2).
- Rebar was installed and concrete poured at CP 22-1 (see Figure 3 & 4) and CP40-2.
- Forms were stripped and cleaned up at CP19-1 and CP22-1.
- Foundation QC occurred at CP19-1, CP22-1, and CP 40-2.
- Micropile drilling occurred at CP42-1.
- Grading occurred on the access road leading to CP20 through CP24.

MCAS Miramar (Federal) Lands, 69 kV Reconductoring Line

- TL639: Two poles were replaced. Hardware was replaced at one location.
- TL6916: No work activity occurred on TL6916 during this reporting period.

Environmental Compliance:

1. Biological, Cultural, and Native American monitors were present as applicable during all transmission line construction activities.
2. BMPs were installed or refreshed on access roads, TSAPs, and pads associated with structures on Link 1:
Non-Federal Lands:
 - Hydromulch at EP219-1.
 - EP215, EP227, EP232-1, EP240, and EP253.BLM Lands:
 - EP300 through EP305, EP307 through EP312, EP314, EP317, EP318, EP323, and EP324.
3. BMPs were installed or refreshed on access roads, TSAPs, and pads associated with structures on Link 2 (non-federal lands only):
 - BMPs were maintained from EP79 to EP93.
 - BMPs were maintained on access roads associated with EP79 to EP93.
4. BMPs were installed or refreshed on Link 4 (non-federal lands only):
 - Along Alpine Boulevard and the Bauer and Loritz properties.
5. BMPs were installed or refreshed on access roads, TSAPs, and pads associated with structures on Link 5 (non-federal lands):
 - 69 kV:
 - A crew completed BMP maintenance at multiple locations.
 - Dust on the access road to CP42-1 was controlled with water dropped from a helicopter.
 - 230 kV:
 - BMPs were maintained at CP20 through CP24-1 and CP40-2 through CP42-1.
 - BMPs were maintained on access roads associated with CP17-1, CP23 through CP26, and CP40-2.
6. Six unanticipated paleontological fossil discoveries were made on Link 1. Samples were collected and the appropriate agencies were notified in accordance with the approved Paleontological Monitoring and Discovery Treatment Plan.
7. An unanticipated cultural discovery was made on Link 1. Work was stopped while a site assessment occurred.
8. Desert pavement was salvaged from pull sites associated with EP338/EP339 and EP343/EP344. (Link 1)
9. Three dead flat-tailed horned lizards (*Phrynosoma mcalli*) were found near EP360, EP313, and EP310. Seven adult flat-tailed horned lizards (*Phrynosoma mcalli*) were relocated from EP362, EP360, EP350, EP358, and EP353. (Link 1)
10. Four silvery legless lizards (*Anniella pulchra pulchra*) were found dead on Alpine Boulevard. One death was attributable to construction activities; the other three were unrelated.
11. 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 on the substation pad and along Bell Bluff Truck Trail (BBTT) continued. Materials were hauled from the northern and southeastern portions of the pad to the southern portion of the pad, as well as from the eastern section to the northeast and southern sections of the pad. Construction of the soil retention wall in the southern portion of the pad continued. The permanent drainage system was installed in the northeast quadrant of the pad. Pier drilling for foundations was conducted. Construction of forms for foundation pads took place. Concrete pouring in the down drains (see Figure 5) and brow ditches along BBTT, as well as foundations occurred. Drilling and blasting took place in the southeastern and eastern portions of the pad. See Figure 6 for an overview of the substation pad.
2. Imperial Valley Substation Upgrade (BLM lands): Work on the wiring in the control house in the 500 kV portion of the substation occurred. Conventional tower assembly was conducted and moved outside of the substation.
3. San Luis Rey Substation (non-federal lands): Conduit and cable for 230 kV continued to be installed from the new transformer into the 230 kV yard. Concrete slurry was poured on the conduit and cable work. Crews continued working on 69 kV bus upgrades below the 230 kV yard and disconnect installation in Bays 3 and 4 around a scheduled outage.
4. Encina Substation (non-federal lands): Excavation around pads was conducted for wire pull boxes and conduit between Bays 1 and 8. Trenching occurred between wire pull boxes to install conduit. Wiring, conduit installation, grounding, water valve work, and repiping also occurred.
5. Sycamore Substation (non-federal lands): Work was conducted below grade at Bays 21 and 26. Drilling occurred outside of the 69 kV bus. Rebar cages were set into newly drilled holes near the 69 kV rack. Crews were onsite installing A-frame structures and delivering materials for scheduled upgrades.
6. Scripps Ranch Substation (non-federal lands): No construction activity occurred during this reporting period. Switching work occurred.

Environmental Compliance:

1. All applicable Biological, Cultural, Paleontological, and Native American monitors have been present during ground disturbing activities at all substations.
2. One silver legless lizard (*Anniella pulchra pulchra*) was relocated from BBTT at Suncrest Substation. (Link 3)

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. Alpine Construction Yard – Utilized for materials storage. Materials staging, steel deliveries, and hand clearing/vegetation maintenance occurred.
2. Alpine Headquarters – No significant activity occurred during the reporting period.
3. Bartlett-Hauser Yard – Utilized for helicopter operations and foundation work staging.

4. Jacumba Valley Ranch (JVR) Yard – Helicopter operations, foundation work staging, tower assembly and tower QC all took place in the yard.
5. Hartung Yard – Utilized for tower assembly.
6. Helix Yard – Utilized for helicopter operations, foundation work staging, rumble plate replacement, and tower assembly (see Figure 7).
7. Kreuzkamp Yard – Utilized for tower assembly.
8. Rough Acres Yard – Helicopter operations, tower assembly, materials staging, and steel deliveries occurred in the yard.
9. SWAT Yard – Utilized for tower assembly, weed wash station, and water supply for Wilson Yard.
10. Sycamore Yard – No activities occurred during this reporting period.
11. Thomas Yard – Materials staging and steel deliveries were made.
12. Wilson Yard – Helicopter activities, staging materials for Suncrest Substation, weed maintenance, and tower assembly and QC occurred (see Figure 8).

BLM Lands:

13. Dunaway Yard – Tower assembly and QC were conducted.
14. Imperial Valley (IV) Yard – Used as a water supply for surrounding areas only.
15. Plaster City Yard – Helicopter activities, foundation work staging, and tower assembly and QC occurred.
16. S2 Yard – Water tank installation and tower assembly and QC occurred.

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. Avian biological monitors ensured weed maintenance activities did not impact wildlife at the Alpine Construction Yard.
3. One Coast patch-nosed snake (*Salvadora hexalepis virgulata*), one two-striped garter snake (*Thamnophis hammondi*), and one northwestern San Diego pocket mouse (*Chaetodipus fallax fallax*) were relocated from Kreuzkamp Construction Yard.
4. The helicopter landing area at Helix Construction Yard was watered for dust control (see Figure 8).

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 07/14/2011)

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.
Miramar	01/20/11	06/28/11	22	Overhead and substation construction.

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 07/14/2011)

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.

Variance Request	Date Requested	Date Issued	Segment #	Description
#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.
#18	6/27/11	Under Review	Link 1	Gate installation between mileposts 38.5 and 39.5.
#19	6/27/11	06/29/11	Link 1	Installation of training tower at Rough Acres Construction Yard.
#20	6/28/11	Under Review	Link 5	Additional disturbance for access, pull sites and topsoil stockpile at CP48-2 to CP51-2.
#21	07/07/11	Under Review	Link 1	Guard structure from EP255 to Imperial Valley Substation.
#22	07/08/11	Under Review	Link 1	Fromm Construction Yard.

TABLE 3
TEMPORARY EXTRA WORKSPACE (TEWS) REQUESTS
(Updated 07/14/2011)

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	04/06/11	04/07/11	Link 2	Northern access road to EP 79
TEWS #8	04/14/11	04/14/11	Link 2	Northeast spur of access road to EP 84
TEWS #9	05/17/11	05/24/11	Link 1	Use of SWPL tower sites for parking (EP331-341)

TEWS Request	Date Requested	Date Approved	Segment #	Description
TEWS #10	05/24/11	05/24/11	Link 5	Parking and pullsite adjacent to Alliant University
TEWS #11	06/16/11	06/16/11	Link 1	Use of alternative access to EP 240, per the request of the landowner at JVR
TEWS #12	06/20/11	06/20/11	Link 1	Use of SWPL tower sites for parking (EP295-299)
TEWS #13	06/30/11	07/01/11	Link 1	Use of SWPL tower site for parking (EP324)
TEWS #14	07/01/11	07/01/11	Link 1	Use of SWPL tower sites for parking (EP300, EP302, EP306, EP307, EP312)
TEWS #15	07/06/11	07/06/11	Link 1	Use of SWPL tower sites for parking (EP294, EP303, EP304, EP305)
TEWS #16	07/11/11	07/12/11	Link 5	Parking near CP20
TEWS #17	07/11/11	07/12/11	Link 5	Parking near CP24
TEWS #18	07/11/11	07/12/11	Link 5	Parking near CP29

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 07/14/2011)

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 07/14/2011)

Type	Date	Location	Description
Incident	11/1/2010	White Star	Delivery of a rebar cage outside of the approved disturbance area.
Incident	02/17/2011	EP 244, Link 1	Nest incorrectly marked at entrance to EP 244.

Type	Date	Location	Description
Incident	02/18/2011	Alpine HQ	Emergency weather landing and storage of 3 helicopters at Alpine HQ.
Incident	03/12/2011	EP 252, Link 1	Bulldozer was delivered at site prior to CPUC clearance being given.
Incident	03/15/2011	EP 214, Link 1	Dewatering approximately 1 gal of groundwater from an excavation hole without having submitted a dewatering plan to the CPUC.
Incident	04/06/2011	JVR 12 kV, Link 1	Confusion on approved work areas due to varying maps having been distributed to workers and monitors.
Incident	04/07/2011	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	05/05/2011	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 EP339, approximately 200 ft outside of Plaster City Yard, the piece fell from the Aircrane. No injuries have been reported.
Incident	06/10/11	Link 1	During the aerial delivery of a structure layback to EP 339, at the EP 339 construction site, 3 of the 4 hooks released and caused an emergency placement of the steel at the site. While in the process of placing on the ground, the 4 th hook released and the tower fell to the ground. No injuries have been reported.

PROJECT PHOTOGRAPHS



Figure 1: Drilling and caisson hammering at EP240, Link 1.



Figure 2: Helicopter view of mining operations and CP40-2 in foreground, CP42-1 at top right, Link 5.



Figure 3: Rebar being set at CP22-1, Link 5.



Figure 4: Helicopter view of CP22-1, Link 5.



Figure 5: Concrete pouring of down drains along Bell Bluff Truck Trail, Suncrest Substation, Link 3.



Figure 6: Panoramic view of Suncrest Substation pad, Link 3.



Figure 7: Helicopter view of Helix Construction Yard, Link 5. Note that landing area has been watered for dust control.



Figure 8: Material staging for Suncrest Substation at Wilson Yard, Link 3.