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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: August 11, 2011
Subject: Weekly Report 45 – July 24 to July 30, 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:

- Caisson installation, welding, and demobilization occurred at Tower EP239.
- Welding and cleanup was conducted at EP240.

BLM Lands:

- Grading occurred at:
 - Tower sites EP315-1 TSAP, EP346, and EP347.
 - New spur roads associated with tower sites EP346 and EP347.
- Conventional drilling was conducted at EP303-2, EP304-2, EP308, and EP309.
- Micropile preparation work took place at EP291.
- Micropile drilling occurred at EP305-3, EP310, EP311-1, EP312, EP314, EP315-1, and EP317.
- Micropile grouting was conducted at EP311-1, EP312, and EP314.
- Micropile proof testing took place at EP312.
- Various foundation work including capping, curing, cage installation, etc., occurred at EP301, EP303-2, EP304-2, EP307-1, EP308, EP309, and EP348.
- Concrete pouring was conducted at EP294, EP301, EP303, EP304-2, EP308, EP346, and EP347.
- Form removal and cleanup took place at EP300-1, EP301, EP303-2, EP307-1, and EP308.
- Steel was delivered to EP298, EP299, EP300, and EP302.
- Tower assembly was conducted at EP296, EP319, EP341, EP342, EP361, EP361, and EP363. Nighttime tower assembly was also conducted at EP295 and EP296.



2. Link 2, 500 kV Overhead Transmission Line:

Non-Federal Lands:

- Conventional foundations were drilled at EP89-1.

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

- Grading and vegetation maintenance occurred via El Monte Road at the Bauer & Slay properties (see Figure 1).
- Potholing/Redevelopment/Revitalization occurred at Vault V10R and at Alpine Boulevard (near Alpine Elementary School).
- Trenching occurred between V7R to Tavern Road, V9R to V10R, V10L to V11L, V11R to V13R, V14R to V15R, and V18R to V20R.
- Pre-drilling/drilling occurred near V20R (Loritz Property).
- Pouring of encasements occurred from V14R to V15R and V18R to V20R.
- Pre-racking and jointing/splicing of manholes occurred at V7L, V8L, and V10L.
- Proofing occurred from V4R to V5R, V9L to V10L, and V17R to V18R.
- Milling and setting plates occurred at V7R to V8R, Alpine Creek to V10L, and at V11R.
- Paving (including preparation) occurred near V8R to Tavern Road, V10L to V11L, V12R to V13R, and V14R to V15R.
- Vault 11R was completed.
- Cable pulling (and cable testing) occurred from V5R to V6R and V9L to V10L.
- Foundation work occurred at the Loritz Property.
- Conduit was installed at the Interstate 8 bore site (Caltrans bore site).
- Baker tanks were cleaned at V6R and near V15R.
- Vegetation was maintained near V19R.
- A storm drain was repaired at Tavern Road.

4. Link 5:

Non-Federal Lands, 220 kV Overhead Transmission Line:

- Conventional drilling and rebar installation occurred at CP96-1.
- Concrete was poured at CP96-1.
- Micropile site preparation occurred at CP21.
- Micropile drilling occurred at CP23.
- Cleanup and demobilization occurred at CP2-1, CP20, CP24-1, CP41-2, CP95-1, and CP96-1.

MCAS Miramar (Federal) Lands, 69 kV Reconductoring Line

- TL639:
 - Hand digging occurred at Location 85 for pole replacement.
 - Wire stringing, sagging, and clipping occurred between Locations 61 and 83.
- TL6916:
 - Phasing was corrected at Location 48 and Manhole U120984.
 - Reframing occurred and rollers were hung from Location 1 to 5 in preparation for wire pulling.
 - Jumpers were removed from Location 5.
 - Phasing was changed at Location 25.

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 tower sites, access roads, TSAPs, and pads associated with towers on Link 1:

Non-Federal Lands:

- EP227 and EP232-1.

BLM Lands:

- Tower sites: EP275, EP276, EP290, EP291, and from EP294 through EP363.
- Access roads: Southwest Powerlink (SWPL) access road from EP263 through EP324, EP342 through EP347, EP360, and EP361.

3. BMPs were installed or refreshed on access roads, TSAPs, and pads associated with towers on Link 2 (non-federal lands only):

- BMPs were maintained at EP26-1, EP42, and from EP84 to EP87, and EP89-1 to EP93.

4. BMPs were installed or refreshed on Link 4 (non-federal lands only):

- Street sweeping occurred along Alpine Boulevard.
- BMPs were maintained as needed.

5. BMPs were installed or refreshed on access roads, TSAPs, and pads associated with towers on Link 5 (non-federal lands):

- 69 kV:
 - No BMP maintenance occurred during this reporting period.
- 230 kV:
 - BMPs were maintained from CP17-1, CP20, CP21, CP22-1, CP23, CP24-1, CP25-2, CP26, CP29-1, CP40-2 to CP42-1, CP95-1, CP96-1, and the CP95/96 pull site.

6. Two 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. Cactus salvage took place at the EP269 pull site and EP279 (see Figure 2). (Link 1)

8. Barefoot banded gecko exclusionary fencing was installed at EP280-2 and EP281. (Link 1)

9. 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 took place on the substation pad and along the Bell Bluff Truck Trail (BBTT). Excavating vaults for underground utilities along BBTT occurred. Rock was crushed for select fill. Rock and soil was hauled from the northern portion of the pad to the southern portion of the pad. Select fill material was hauled to the southern section of the pad. Drilling for foundation piers was conducted. Forms were constructed and concrete was poured for foundation pads. Drilling and blasting on the northern and eastern portions of the pad took place. Rip rap was placed at storm drain and culvert outlets (see Figure 3).
2. Imperial Valley Substation Upgrade (BLM lands): Work on the wiring in the control house in the 500 kV portion of the substation occurred. Work on cable in Bay 3 was conducted. Conventional tower assembly and transportation took place.
3. San Luis Rey Substation (non-federal lands): Wiring in the control house continued. Crews also worked on terminating newly pulled cable.
4. Encina Substation (non-federal lands): Excavation around pads was conducted for wire pull boxes conduit trenches, and transformer pads between Bays 2 and 11. Dirt that was excavated during conduit and pad foundation work was hauled away. Conduit installation and grounding occurred (see Figure 4). Crews worked in the new control house installing wiring panels and disconnects in Bays 1 through 10. Crews worked on Bays 2 and 3 installing disconnects and wire drops as well as removing older lines. Construction on the northern perimeter fence continued.
5. Sycamore Substation (non-federal lands): Work was conducted below grade at Bays 15 and 26. Concrete was poured in the northwest corner of the substation for a new transmission pole. A crew backfilled Bay 21 to cover conduit and previously laid grounding. A crew trenched in Bay 26 to prepare for laying grounding and conduit around pad sites. A crew dug out an additional pad site and poured concrete south of the 69 kV rack. Grounding and conduit was laid in Bay 26.
6. Scripps Ranch Substation (non-federal lands): A crew replaced a bus and insulators on the west side of the substation.

Environmental Compliance:

1. All applicable Biological, Cultural, Paleontological, and Native American monitors have been present during ground disturbing activities at all substations.
2. Wattles were installed for slope stabilization on completed sections of the Suncrest Substation pad. (Link 3)
3. One barn owl (*Tyto alba*) was found dead near the Sycamore Substation. The owl had been observed along the road earlier in the day and appeared to be ill; there was no evidence that the illness or death was project related.

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 – Materials staging, steel deliveries, and hand clearing/vegetation maintenance with Avian Biological Monitors as needed.
2. Alpine Headquarters – No significant activity occurred during the reporting period.
3. Bartlett-Hauser Yard – Helicopter operations and weed maintenance occurred.
4. Jacumba Valley Ranch (JVR) Yard – Steel staging and welding of caissons occurred.
5. Hartung Yard – Tower assembly and preparation for large crane demobilization occurred.
6. Helix Yard – Helicopter operations and staging for foundation work occurred.
7. Kreuzkamp Yard – Tower assembly and large crane demobilization occurred.
8. Rough Acres Yard – Helicopter operations, tower assembly, materials staging, and weed maintenance occurred in the yard.
9. SWAT Yard – Tower assembly and material deliveries occurred.
10. Sycamore Yard – Helicopter operations and foundation work staging occurred.
11. Thomas Yard – Materials staging and steel deliveries were made.
12. Wilson Yard – Materials staging for Suncrest Substation and water deliveries to the water storage pond were made.
13. S2 Yard – Nighttime tower assembly and daytime materials deliveries occurred (see Figure 5).
14. AER Yard – Clearing and fencing occurred at the AER Yard.

BLM Lands:

15. Dunaway Yard – Wire reel delivery occurred. This yard was also used as a water supply for dust control.
16. Imperial Valley Yard – Used as a water supply for surrounding areas only.
17. Plaster City Yard – Helicopter activities, foundation work staging, materials deliveries, and tower assembly took place. This yard was also used as a water supply for dust control for the surrounding areas.

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. Eight flat-tailed horned lizards (*Phrynosoma mcalli*) were relocated to suitable habitat, away from construction activities. Of the eight, six were found on the access road from Highway 98 into the Imperial Valley Substation, one was found near the Dunaway Construction Yard, and one near the access road to EP355. (Link 1)
3. At the Kreuzcamp Construction Yard, Two (2) Two-striped gartersnakes (*Thamnophis hammondi*) were relocated from the yard. (Link 2)
4. One Coronado skink (*Plestiodon skiltonianus interparietalis*) was relocated from the work area at Wilson Yard. (Link 3)

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 08/11/2011)

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.
USFS	07/29/11	08/09/11	6, 7, 10, 12,14,16	Links 1, 2, and 5 overhead construction on USFS 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 08/11/2011)

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

Variance Request	Date Requested	Date Issued	Segment #	Description
#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.
#18	06/27/11	07/14/11	Link 1	Gate installation between mile markers 38.5 and 39.5.
#19	06/27/11	06/29/11	Link 1	Installation of training tower at Rough Acres Construction Yard.
#20	06/28/11	08/05/11	Link 5	Additional disturbance for access, pull sites and topsoil stockpile at CP48-2 to CP51-2.
#21	07/07/11	07/15/11	Link 1	Guard structure from EP255 to Imperial Valley Substation.
#22	07/08/11	08/04/11	Link 1	Fromm Construction Yard. Additional information submitted 08/04.
BLM DNA #1	07/19/11	08/05/11	Link 1	Minor modifications to portions of the Project on Bureau of Land Management lands.

TABLE 3
TEMPORARY EXTRA WORKSPACE (TEWS) REQUESTS
(Updated 08/11/2011)

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 Request	Date Requested	Date Approved	Segment #	Description
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 #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
TEWS #19	07/18/11	07/19/11	Link 1	Parking near EP314
TEWS #20	07/22/11	07/25/11	Link 1	Parking near EP315
TEWS #21	08/05/11	08/05/11	Link 1	Parking near EP290

NON-COMPLIANCES & INCIDENTS

CPUC Project Memorandum (PM) and Non-Compliance Reports (NCR), and Corps Non-Compliances (NC) that have been issued to date are presented in Table 4.

TABLE 4
NON-COMPLIANCES (NC) AND PROJECT MEMORANDA (PM)
(Updated 08/11/2011)

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 08/11/2011)

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 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.
Incident	07/07/11	Link 1	A project water tanker was stuck on the side of Evan Hughes Highway and released approximately 1,000 gallons of potable water into Coyote Wash, after pulling over to evaluate a bridge crossing. All necessary notifications were made.
Incident	07/07/11	Link 5	Construction vehicles, including project fire truck, were noted to be outside of approved disturbance areas at CP40 and CP41. Link leads were notified and immediate corrective action was taken.
Incident	07/11/11	Link 1	A skid fell off the KMax Helicopter while en route to a tower site. The skid was within the Project ROW and no injuries were reported. The item was retrieved on foot.

Type	Date	Location	Description
Incident	07/28/11	Link 1	Unapproved disturbance of approximately 50'x100' occurred during the grading operations of the AER yard. No resources were impacted.
Incident	08/04/11	Link 1	An air compressor was dropped approximately 500ft north of EP327, from a KMax helicopter while in transit to a micropile site. Approximately 50-60 gallons of diesel was spilled in an area of approximately 75' in diameter. Site has been cleared and appropriate agencies have been contacted.

PROJECT PHOTOGRAPHS



Figure 1: Dust control and grading operations on the Slay Property. (Link 4)



Figure 2: Cactus salvage, Link 1.



Figure 3: Rip rap installation at Suncrest Substation, Link 3.



Figure 4: Trenching and conduit installed at the Encina Substation.



Figure 5: Secondary containment around Light Pots at S2 Construction Yard, Link 1.