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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 7, 2011
Subject: Weekly Report 40 – June 19 to June 25, 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:

- Grading was conducted at the EP219-1 tower site.
- Tower assembly occurred at EP211.
- A gate was installed on the access road to EP240.
- Brush was removed from EP240.

BLM Lands:

- Ground resistance testing was conducted at EP230-1, EP321-1, EP322-1, EP327, EP330-1, EP335, EP338, EP339, EP340, and EP341.
- Grading occurred at:
 - Tower sites: EP298, EP299, EP313, EP316-2, EP318-1, EP319, EP320-1, EP321-1, EP326, EP327, EP331, EP342, EP344, EP345, and EP353.
 - Spur roads: EP297-N, EP298-N, EP299-N, EP327-N, EP353-N, and EP359-N.
 - Existing Southwest Powerlink (SWPL) access roads: EP 342 through EP363.
- Micropile setup took place at EP324.
- Conventional drilling was conducted at EP351, EP352, EP353, EP354, EP355, EP357, EP358, and EP362.
- Various foundation work, including capping, curing, cage installation, etc., occurred at EP342, EP348, EP350, EP351, EP352, EP353, EP354, EP355, EP357, and EP358.
- Concrete pouring took place at EP351, EP352, EP353, EP354, EP355, EP356, EP357, EP358, and EP362-1.



- Concrete stripping and cleanup was conducted at EP313, EP343, EP348, EP350, EP351, EP352, EP353, EP354, EP355, EP357, EP358, EP359, EP360, and EP361.
- Tower assembly occurred at EP316-2, EP318-1, EP320-1, EP321, EP322, EP327, EP329, EP331, EP332, EP333, EP334, EP335, EP336, EP337, EP338, EP339, EP340, EP341 (see Figure 1), EP342, EP343, EP344, EP348, EP350, EP356, EP359, and EP360.
- Grounding was installed at EP343, EP351, EP352, EP354, EP355, EP361, EP362-1, and EP363.
- A test flight of the new Erickson Sky Crane was conducted between Plaster City Yard and EP339 (see Figure 2).

2. Link 2, 500 kV Overhead Transmission Line:

Non-Federal Lands:

- Micropile drilling occurred at EP86-1.
- Micropile grouting occurred at EP85-2 and EP86-1.
- Micropile trimming occurred at EP85-2 (see Figure 3) and EP86-1.
- Proof/pull testing occurred at EP85-2.

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

- Potholing (including verifying conduit) occurred at Vault V7R to V8R, V11R to V13R, V10L, V15R to V19R, and Viejas Creek Bridge.
- Transitions (Ins and Outs) occurred at V5R, V16R, V17R, and V18R.
- Trenching occurred between V2R and V5R, V6R and V8R, V9L and V10L, and V12R and V14R, and at V18R.
- Pre-drilling/drilling occurred between V7R and V9R, and at V10L and V19R.
- Pouring and encasement occurred from V2R to V5R.
- Pre-racking and cleaning manholes occurred at V8R, V16L, and V17L.
- Proofing occurred from V8L to V9L.
- Milling and setting plates occurred at V2R, V3R to V5R, V9L to V10L, V14R, V17R, and V18R.
- Doweling occurred at V13R to V14R.
- Bridge attachment occurred at Viejas Creek Bridge.
- Cable pulling (and testing) occurred from V6L to V8L.
- Jointing (splicing) occurred at V17L.
- Grading occurred at the Loritz Property.
- Striping occurred on Alpine Boulevard.
- Installation of acoustic walls and plastic wrapping occurred at Bauer Bridge.
- Work on jacking/receiving pits at the Interstate 8 bore site (Caltrans bore site).

4. Link 5:

Non-Federal Lands, 220 kV Overhead Transmission Line:

- Micropile drilling occurred at CP42-1.
- Conventional drilling occurred at CP19-1.
- Concrete pouring occurred at CP19-1 (see Figure 4).
- Grounding occurred at CP19-1.

MCAS Miramar (Federal) Lands, 69 kV Reconductoring Line

- TL639: Reconductoring of poles was completed.
- TL6916: Troubleshooting of phases (rolling) occurred.

Environmental Compliance:

1. Biological, Cultural, and Native American monitors were present as applicable during all transmission line construction activities.
2. A raven perching deterrent was installed at EP344.
3. Two flat-tailed horned lizards (*Phrynosoma mcalli*) were found dead on the SWPL access road near Dunaway Yard and near EP357 and EP358 respectively. Eleven flat-tailed horned lizards (*Phrynosoma mcalli*) were relocated from the SWPL access road near EP355, EP360, EP349, and the Imperial Valley Substation. (Link 1)
4. On June 23, 2011, a minor incident involving the air crane occurred. A portion of Tower EP339 was set on the tower and immediately after, the air crane was grounded for a few hours due to a minor mechanical failure. The incident was quickly resolved and flights resumed around 1:30 P.M. No people or sensitive resources were harmed in this incident. (Link 1)
5. Dust generated by helicopter activities at EP85-2 and EP86-1 was controlled with water. (Link 2)
6. BMPs were installed or refreshed on access roads, TSAPs, and pads associated with structures on Link 1:
Non-Federal Lands:
 - Hydromulch at EP219-1 and EP220-1 (see Figure 5.
 - EP215, EP227 TSAP, EP232-1 TSAP, and EP253-2.BLM Lands:
 - EP295, EP297, EP298, and from EP319 through EP363.
 - Cleaned rumble strips at all yards.
 - Spur roads to EP295, EP297, EP298, EP299, from EP290 through EP295, from EP313 through EP316, EP319, EP331, and EP341.
 - SWPL access road from EP342 through EP344, and EP348 and EP353.
7. Three 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.
8. BMPs were installed or refreshed on access roads, TSAPs, and pads associated with structures on Link 2 (non-federal lands only):
 - BMPs were maintained at EP79, EP84, EP85, EP87, and from EP89 to EP93.
 - BMPs were maintained on access roads associated with EP84 and EP85.
 - BMPs were maintained at EP87-1 TSAP.
9. BMPs were installed or refreshed on Link 4 (non-federal lands only):
 - Along Alpine Boulevard and the Bauer and Loritz properties.
10. 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 maintenance BMPs along the entire alignment of T1639 between Sycamore Substation and Scripps Ranch Substation.
 - A crew completed BMP maintenance at 28 locations.
 - 230 kV:
 - Dust on the access road to CP19-1 was controlled with the use of a water truck.
 - BMPs were maintained on access roads associated with CP17-1 through CP26 and CP40-2 and CP42-1.
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. Rock and soil was hauled from the eastern section of the pad to the center and southern portions of the pad. The permanent drainage system in the northwest quadrant of the pad continues to be installed. Pier drilling and concrete pouring for foundations occurred. Drilling and blasting took place on the eastern section of the pad. Construction occurred on the soil retention wall in the southern portion of the pad (see Figure 6). Excavation, construction and concrete pouring for the box culvert occurred along BBTT. A 12 kV distribution pole was relocated along the BBTT. See Figure 7 for an overview of the 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): A 230 kV cable trench for conduit installation and concrete slurry was poured over the conduit inside the trench. Work on the 69 kV bus upgrades and disconnect installation in Bays 3 & 4 was conducted.
4. Encina Substation (non-federal lands): Excavation around pads was conducted around pads for wire pull boxes between Bays 8 and 11. Trenching occurred between wire pull boxes to install conduit and concrete was formed and poured at the new transformer pad in Bay 11 west. Wiring, conduit installation and grounding also occurred.
5. Sycamore Substation (non-federal lands): Work was conducted below grade at Bays 21 and 26. Concrete was poured for a new transformer pad in Bay 11 west. Crews assembled A-frame structures.
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. An avian biologist cleared the American Kestrel (*Falco sparverius*) nest at San Luis Rey substation.

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 with Avian Biological Monitors as needed.
2. Alpine Headquarters – No significant activity occurred during the reporting period.

3. Bartlett-Hauser Yard – Utilized for helicopter operations and tower assembly.
4. Jacumba Valley Ranch (JVR) Yard – Helicopter operations, final gate installation, 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 and tower assembly.
7. Kreutzkamp 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 – No work occurred at this location during this reporting period.
10. Sycamore Yard – Fencing was installed for helicopter use area (see Figure 8).
11. Thomas Yard – Materials staging and steel deliveries were made.
12. Wilson Yard – Helicopter activities and tower assembly and QC occurred.

BLM Lands:

13. Dunaway Yard – Access road grading, and tower assembly and QC were conducted.
14. Imperial Valley (IV) Yard – Yard was used as a crew meet-up location. No work occurred at this location during this reporting period. However, dust plumes were observed from off-ROW Border Patrol activity.
15. Plaster City Yard – Helicopter activities, and tower assembly and QC occurred.
16. S2 Yard – 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. BMP maintenance was performed at JVR. Heavy dust plumes were observed from non-Project related grading south of the yard.
3. BMP maintenance took place at Plaster City Yard and S2 Yard.
4. One coast horned lizard (*Phrynosoma coronatum*) was relocated from the Rough Acres Yard.
5. One Red diamond rattlesnake (*Crotalus ruber*) was killed while moving equipment at the Sycamore Yard. One snake skin was found during operations in the same area.

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 07/07/2011)

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 07/07/2011)

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	Under Review	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	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.

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

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 Request	Date Requested	Date Approved	Segment #	Description
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)

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 07/07/2011)

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 07/07/2011)

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.

Type	Date	Location	Description
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.

PROJECT PHOTOGRAPHS



Figure 1: Conventional tower assembly at EP341, Link 1.



Figure 2: Erickson Sky Crane test flights at Plaster City Yard, Link 1.



Figure 3: Trimming micropiles at EP 85-2, Link 2.



Figure 4: Installation of rebar at CP19-1, Link 5.



Figure 5: Hydromulch application at EP219-1, Link 1.



Figure 6: Soil retention wall in the southern portion of the pad, Suncrest Substation, Link 3.



Figure 7: Panoramic view of Suncrest Substation Pad, Link 3.



Figure 8: Fence installation at Sycamore Yard, Link 5.