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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 29, 2011
Subject: Weekly Report 39 – June 12 to June 18, 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:

- Final grading of pad site to original contour occurred at Tower EP220.
- A gate was installed on the access road to EP240.
- Micropile concrete cap preparation occurred at EP223-1 and EP225-1.
- Micropile testing and cleanup was conducted at EP223-1.
- Tower assembly took place at EP211, EP215, EP219-1, and EP244 (see Figure 1).
- Grounding was installed at EP214, EP219-1, and EP22-1.
- Ground resistance testing was conducted at EP219, EP220-1, and EP224.
- QC inspections were performed at EP220-1, EP243, and EP244.

BLM Lands:

- Grading took place at the following tower sites: EP295, EP296, EP297, EP298, EP299, EP316-2, EP322, EP334, EP340, EP343, and EP353.
- New access roads were repaired from EP331 through EP341.
- Grading of existing Southwest Powerlink (SWPL) access road occurred from EP313 through EP334, and EP350 through EP355.
- Conventional drilling was conducted at EP313, EP342, EP345, EP348, EP350, EP357, EP361, and EP363.
- Various foundation work including capping, curing, cage installation, etc., took place at EP313, EP342, EP345, EP348, EP350, EP361, and EP363.



- Concrete pouring occurred at EP313, EP316, EP342, EP345, EP348, EP350, EP361, and EP363.
 - Concrete stripping and cleanup was conducted at EP335 and EP361.
 - Tower assembly took place at EP316, EP318, EP320, EP330, EP331, EP335, EP336, EP337, EP339, EP340, and EP341.
 - Grounding was installed at EP342, EP345, EP348, EP361, and EP363.
 - Raven perching deterrents were installed at EP316-2, EP318-1, EP320-1, EP322-1, EP326, EP332, EP334, EP336, EP338, and EP340.
 - Ground resistance testing was conducted at, EP332, EP334, EP336, EP337, EP338, EP343, and EP344.
2. Link 2, 500 kV Overhead Transmission Line:
- Non-Federal Lands:
- Micropile test drilling occurred at EP90-1 (see Figure 2) and EP91.
 - Micropile drilling occurred at EP85-2 and EP86-1.
 - Micropile grouting occurred at EP85-1 (see Figure 3) and EP86-1.
 - An anchor installation crew worked at EP79, EP80, EP84, EP85, and EP86.
 - Conventional drilling occurred at EP89, EP92, and EP93.
3. Link 4, 220 kV Underground Transmission Line (non-federal lands only):
- Potholing (including verifying conduit) occurred at Vault V6R, V12R to V13R, V14 to V15, and Viejas Creek Bridge.
 - Transitions (Ins and Outs) occurred at V2R, V5R, V17R, and V18R.
 - Saw cutting occurred at V2R, V11L, from V7R to V8R, V11R to V12R, V15R to V17R, and V18R to V19R.
 - Trenching occurred between V3R to V5R, V6R to V7R, V9L to V10L, V13R to V14R, and V17R to V18R.
 - Pre-drilling/drilling occurred between V7R to V8R, V10R, V10L, and V19R.
 - Pouring of encasement occurred from V3R to V5R.
 - Pre-racking and cleaning manholes for occurred at V16L.
 - Proofing occurred from V8R to V9R.
 - Milling and setting plates occurred at V3R, V4R, V5R, V6R to V7R, V9L to V10L, V17R, and V18R.
 - Paving (including preparation) occurred near V2R, V4R to V5R, V9L to V10L, V13R to V14R, V17R, and V18R.
 - Doweling occurred at V13R to V14R.
 - Bridge attachment and potholing occurred at Viejas Creek Bridge.
 - Cable pulling (and testing) occurred from V3L to V4L and V11L to V12L.
 - Jointing (splicing) occurred at V17L.
 - Grading occurred at the Loritz Property and V19R.
 - Striping occurred on Alpine Boulevard.
 - Work on jacking/receiving pits and water tanks 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 CP18-1 (see Figure 4) and CP19-1 (see Figure 5).
- Forms stripping and grounding was installed at CP18-1.
- Micropile testing and drilling occurred at CP42-1.

USMC Miramar (Federal) Lands, 69 kV Reconductoring Line

- Sagging and clipping between Sycamore Substation and Hwy 52 on TL639 was completed.
- Wire preparation work occurred on TL639.

Non-Federal Lands, 69 kV Reconductoring Line

- Wire preparation and setup occurred on TL6916.
- A crew completed a wire pull and started clipping wire on TL6916.
- Hold-downs were installed at several locations.
- Wire preparation work occurred at several locations.
- Sidewalk repairs at Rue Biarritz were completed.

Environmental Compliance:

1. Biological, Cultural, and Native American monitors were present as applicable during all transmission line construction activities.
2. Three unanticipated paleontological fossil discoveries were found on Link 1. Samples were collected and the appropriate agencies were notified in accordance with the approved Paleontological Monitoring and Discovery Treatment Plan.
3. One flat-tailed horned lizard (*Phrynosoma mcalli*) was relocated from the SWPL access road to an open sandy habitat approximately 400 feet north of the access road, Link 1.
4. On June 16, 2011, it was noted to the CPUC EM that a project related vehicle had gone off of the right-of-way at EP335, Link 1. A Biological Monitor was onsite to assess impacts and an archeological and Native American monitor were requested to be brought onsite as well. It was determined that no sensitive resources were impacted. Follow up on how to prevent future off right-of-way incidents was requested.
5. On 6/13/2011, on the 69 kV section (Link 5), less than 2 oz of hydraulic fluid was released at 9939 Rue Biarritz, San Diego. The release was from a spool truck transfer case. It was immediately contained and cleaned up. Reporting was made to the City of San Diego, Storm Water Reporting.
6. On 6/14/2011, approximately 4 ounces of motor oil was contained and cleaned up at the jack and bore site (Link 4), ¼ mile west of Peutz Valley Road, Alpine. The cause of the release was from a private crew vehicle. Reporting was made to the Caltrans HazMat Manager.
7. Dust generated by helicopter activities at EP85-2 and EP86-1 was controlled with water, Link 2 (see Figure 6).
8. A number of vehicles were parked outside the project boundary adjacent to the CP 18-1/19-1 access road while pouring occurred at CP 18-1 (see Figure 7). The CPUC EM notified the Link Lead of the situation and vehicles were moved. Following the incident, signs were placed to block off the area for parking.
9. 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
- EP227 and EP232-1

BLM Lands:

- EP317, EP317 TSAP, EP318, and EP341.
- Access roads to EP295, EP297, EP298, EP299, between EP290 through EP295, EP313 through EP316, and EP331 through EP341.

10. BMPs were installed or refreshed on Link 2 (non-federal lands only):

- EP79 and from EP89 to EP93.
- BMPs were maintained on access roads associated with EP89-1, EP90-1, EP91, EP92, and EP93

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

- Along Alpine Boulevard and the Bauer and Loritz properties.

12. Link 5 (non-federal lands):

- 69 kV:
 - A crew completed maintenance BMPs along the entire alignment of TL639 between Sycamore Substation and Scripps Ranch Substation, Locations #1 through #85. BMPs were also repaired on the access road near Location #76 of TL639
 - A crew completed BMP maintenance at the following locations within the TL6916: Location #20 through #48.
- 230 kV:
 - BMP crew conducted maintenance from CP17 to CP26 and CP40 to CP42.
 - BMPs were maintained on access roads associated with CP17-1, CP19-1, CP20, CP21, CP22-1, CP23, CP24-1, CP25-2, CP26, CP40-2, and CP42-1.
 - Dust on the access road to CP18-1 and CP19 was controlled by the use of a water truck.
 - BMP maintenance and installation occurred from CP17 to CP24, CP25 to CP26, and CP40 to CP42.

13. 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 substation pad and Bell Bluff Truck Trail (BBTT). Installation of the culvert along the access road near the Smith property occurred (see Figure 8). Drilling, blasting, and excavation occurred in the northeastern portion of the pad. Compaction occurred in the southern and southwestern portions of the pad. Backfilling and compacting of select fill for the permanent drainage system occurred on the northwestern portion of the pad. Installation of a diverter box for the permanent drain system in the western portion of the pad occurred. Installation of the permanent sediment basin in the southern portion of the pad continued (see Figure 9). Prepping, staging materials, and beginning construction of the soil retention wall (#2) occurred in the southern portion of the pad. Grade was set in the northwestern portion of the pad and preparations for foundations were made (see Figure 10).
2. Imperial Valley Substation Upgrade (BLM lands): Work on the wiring in the control house occurred. Conventional tower assembly continued.

3. San Luis Rey Substation (non-federal lands): The contractor excavated a 230 kV cable trench on the north side of the Bank 70 transformer and poured concrete slurry over the conduit inside the trench. SDG&E worked on 69 kV bus upgrades and disconnect installation in Bays 3 & 4.
4. Encina Substation (non-federal lands): SDG&E worked on circuit breakers and disconnects in Bays 1 through 7. The contractor worked on excavating around pads for wire pull boxes between Bays 8 and 11. The contractor trenched between wire pull boxes to install conduit, formed and poured concrete at the new transformer pad in Bay 11 west, and performed wiring, conduit installation, and grounding.
5. Sycamore Substation (non-federal lands): A transformer contractor filled the new transformer with oil and performed required testing. The construction contractor worked below grade in Bays 21 and 26. SDG&E worked on control house wiring in the 500 kV portion of the yard and on tower assembly.
6. Scripps Ranch Substation (non-federal lands): No work occurred during this reporting period.

Environmental Compliance:

1. All applicable Biological, Cultural, Paleontological, and Native American monitors have been present during ground disturbing activities at all substations.
2. One adult female San Diego coast horned lizard (*Phrynosoma blainvilli*) was found dead in the southern section of the Suncrest Substation construction pad, 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.
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 – Tower assembly and helicopter activities continued. Tower QC also took place.
5. Hartung Yard – Tower assembly occurred at this location.
6. Helix Yard – Utilized for helicopter operations and tower assembly.
7. Kreutzkamp Yard – No work occurred at this location during this reporting period.
8. Rough Acres Yard – Materials storage and helicopter activities continued. Steel deliveries were received.
9. SWAT Yard – Tower assembly occurred at this location.
10. Sycamore Yard – No work occurred at this location during this reporting period.
11. Thomas Yard – Materials staging and steel deliveries were made.
12. Wilson Yard – Tower assembly continued and QC occurred.

BLM Lands:

13. Dunaway Yard – Tower assembly continued and QC occurred.
14. Imperial Valley (IV) Yard – No work occurred at this location during this reporting period.

15. Plaster City Yard – Helicopter operations, tower assembly, and QC occurred. Underground utilities were located outside of the yard. Visual screening was successfully installed.
16. S2 Yard – Tower assembly and QC occurred. Visual screening was successfully installed.

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. One dead flat-tailed horned lizard (*Phrynosoma mcalli*) was found dead on the access road between the SWPL line and Dunaway Yard, Link 1. One coast horned lizard (*Phrynosoma coronatum*) was relocated from the Rough Acres Yard, Link 1.
3. On June 16, 2011, it was noted to the Link Lead that two project related vehicles were parked inside of a bird buffer that was marked “drive through only” at Rough Acres Yard. Immediate corrective action was taken, Link 1.
4. One coast horned lizard (*Phrynosoma coronatum*) was relocated from the SWAT Construction Yard, Link 2.

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 06/29/2011)

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 06/29/2011)

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.
#18	6/27/11	Under Review	Link 1	Gate installation between mile markers 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.

TABLE 3
TEMPORARY EXTRA WORKSPACE (TEWS) REQUESTS
 (Updated 06/29/2011)

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 #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)

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 06/29/2011)

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 06/29/2011)

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.
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: Conventional tower assembly at EP211, Link 1.



Figure 2: Micropile test drilling at EP 90-1, Link 2.



Figure 3: Helicopter delivery of grout at EP 85-1, Link 2.



Figure 4: Drilling operations at CP 18-1, Link 5.



Figure 5: Drilling operations at CP 19-1, Link 5.



Figure 6: Water drop for dust control at EP 85-1, Link 2.



Figure 7: Vehicles parked outside of access road boundary during concrete pour at CP 18-1, Link 5.



Figure 8: Culvert installation near Smith property, Suncrest Substation, Link 3.



Figure 9: Installation of the permanent drainage system in the southern portion of the pad, Suncrest Substation, Link 3.



Figure 10: Bringing northwestern corner of substation pad to final grade, Suncrest Substation, Link 3.