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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 3, 2011
Subject: Weekly Report 35 – May 15 to May 21, 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:

- Conventional foundations were drilled at EP327, EP328-1, EP329-1, EP331, and EP341.
- Reinforcing steel cage inspections and installation occurred at EP327, EP328-1, EP329-1, EP330-1, EP331, and EP341.
- Conventional foundations were poured and form disassembly took place at EP327, EP328-1, EP329-1, EP330-1, EP331, EP341, EP343, and EP344.
- Concrete preparation work was conducted at EP316-2, EP327, EP328-1, EP329-1, EP330-1, EP331, EP343, and EP344.
- Removal of forms, stripping and concrete cleanup occurred at EP327, EP330-1, EP341, EP343, and EP344.
- Conventional structure assembly took place at EP316-2, EP321-1, EP325-2, EP332, EP348, EP349, EP355, EP361, and EP362-1.
- Micropile soil boring was conducted at EP316-2 and EP343.
- Micropile drilling and grouting took place at EP324.



- Excavation inspection was conducted at EP341.
- Tower site grading occurred at EP318, EP332, EP342, EP357, EP359, and EP362.
- Access road grading took place at EP316-2-N, EP318-1-N, EP320-1-N, EP324-E through EP329-E, EP331-E through EP341-E, EP342-E through EP363-E and Imperial Valley Construction Yard.

2. Link 2, 500 kV Overhead Transmission Line:

Non-Federal Lands:

- Micropile drilling and grouting occurred at Towers EP84 (see Figure 1), EP85-2, and EP86-1.
- Concrete testing was conducted at EP80.

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

- The Hells Angels held an event in Alpine. Construction activity was reduced on 5/20/2011 and minimal construction was conducted on 5/21/2011 to maintain safety.
- Potholing occurred from Vault V9L to V10L.
- Excavating occurred at V10L, V12R, and V14R.
- Ins-and-outs occurred at V2L, V5L, and V9R.
- Trenching occurred from V2L to V4L, V7L to V8L, and V11L to V12L.
- Pre-drilling and drilling occurred from V4R to V7R.
- Saw cutting occurred from V4R to V7R.
- Encasement pouring occurred from V2L to V4L.
- Proofing occurred from V6R to V7R, V5L to V6L, V8L to V9L, and V12L to V13L.
- Milling and setting plates occurred from V2L to V3L, V7L to V8L, and at V12R.
- Paving occurred from V3L to V5L, V8R to V9R, and at V14R.
- Vault setting occurred at V14R.
- Bridge work occurred at the Viejas Creek Bridge.
- Shoring occurred at the Alpine Creek bore site.
- Cable pulling and testing occurred from V14L to V17L.
- Grading occurred at the Loritz Property (see Figure 2).
- Stripping occurred on Alpine Boulevard.
- Digging pole holes for acoustic reduction blankets occurred at Bauer Bridge.
- Conduit package and backfilling, as well as water line installation, occurred at the Interstate 8 bore site.

4. Link 5:

Non-Federal Lands, 220 kV Overhead Transmission Line:

- Conventional foundation was drilled at CP25-2.
- Concrete preparation work (rebar installation) and concrete pouring occurred at CP25-2.
- Conventional structure assembly was conducted at CP25-2 and CP26.
- Foundation cleanup occurred at CP25-2 and CP26.
- Steel was erected at CP25-2 and CP26.

Non-Federal Lands, 69 kV Reconductoring Line

- One new steel cable pole was set on the west side of Rue Biarritz Underground.
- Trenching occurred at Rue Biarritz Underground between paved streets and poles; began backfill activities.

- Removal of old conductor and cleaning of conduit occurred at Scripps Ranch Boulevard, underground, in preparation for pulling the new conductors.
- Completed reframe (installing rollers) on the poles between Alliant and Rue Biarritz.
- A survey team staked corners of towers on Marine Corps Air Station Miramar (MCASM).

Environmental Compliance:

1. Biological, Cultural, and Native American monitors were present as applicable during all transmission line construction activities.
2. High use of off-highway vehicles (OHV) was observed during this reporting period (see Figure 3).
3. On May 16, 2011, a Project Memorandum was issued due to a water truck operating in unapproved project area at EP340 (see Figure 4).
4. BMPs were installed or refreshed on access roads, TSAPs, and pads associated with structures on Link 1:
Non-Federal Lands:
 - Jacumba 12 kV, EP220-1.
 BLM Lands:
 - Road from EP363 thru EP342, EP361, EP360, EP359 EP341, EP339, EP331, EP328-1, EP327, EP322-1.
5. BMPs were installed or refreshed on access roads, TSAPs, and pads associated with structures on Link 2:
Non-Federal Lands:
 - EP54 access road, EP89-1, EP79,
 BLM Lands:
 - None.
6. 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. The Contract Administrator also suggested redesign of a pole anchor to reduce disturbance to the nest.
 - BMP installation and/or maintenance continued along Alpine Boulevard and the Bauer and Loritz properties.
7. Link 5 (non-federal lands):
 - BMP maintenance was performed on TL639 and TL6919, and at CP42-1, CP40-2, CP41-2, CP29-1, CP26, CP25-2 CP22-1, CP21, CP20, CP19-1, CP 18-1, CP17-1.
 - 69 kV Reconductoring, 5/19/2011: A release of approximately 2 ounces of diesel fuel occurred at 9990 Rue Biarritz when a small container of the fuel was knocked over. The release was immediately contained and cleaned up.
 - 69 kV Reconductoring, 5/19/2011: A release of approximately 8 ounces of trench water occurred on Scripps Ranch Boulevard., 50 yards West of Aviary Drive, when a fitting on a vacuum truck was found dripping. The leak was immediately contained and the water was cleaned up. Both of the above were reported to the City of San Diego, Storm Water Reporting.
8. 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. Rock and soil were excavated from the northern and eastern portions of the pad and compacted in the northwest corner of the pad to bring it up to final grade. The soil retention wall in the southeastern portion of the pad was completed. Culvert installation along Bell Bluff Truck Trail (BBTT) continued (see Figure 5). Drain pipe installation continued. Drilling and blasting occurred in several locations throughout the pad.
2. Imperial Valley Substation Upgrade (BLM lands): Foundations were drilled, but were limited by ground-water levels. Dead-end structure assembly took place. Continued work on gas circuit breaker, potential transformer, switch stands, and bus supports.
3. San Luis Rey Substation (non-federal lands): The contractor mobilized on site. Disconnect work occurred.
4. Encina Substation (non-federal lands): Conventional foundations were drilled, but were limited by ground-water levels. A gas circuit breaker, potential transformer, switch stands, and bus supports were constructed. Dead-end structure assembly occurred.
5. Sycamore Substation (non-federal lands): Forming pads for circuit breakers, switch stands, and a 138 kV transformer were constructed.
6. Scripps Ranch Substation (non-federal lands): Work was completed on the 69 kV bus and disconnects except for two areas that cannot be accessed at this time.

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: The Storm Water Pollution and Prevention Plan (SWPPP) Monitor conducted inspections before, during and after the rain event starting May 16, 2011. A punch list was developed for areas in need of maintenance and all were initiated within 72 hours of the rain event. Use of the two existing ponds on the Wilson property as a water source has been conducted in accordance with SWRCB and CDFG permits. One coast patch-nosed snake (*Salvadora hexalepis virgultea*) was found dead along the BBTT, most likely run over by a piece of equipment.
3. Active nest monitoring occurred at Imperial Valley, Encina, San Luis Rey, Sycamore, and Scripps Ranch substations.

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 staging and wire stringing preparation activities continued at the Alpine Construction Yard.
2. No ground disturbing activities were conducted at the Alpine Regional Field Office (Alpine RFO).
3. Materials staging and tower assembly continued at Rough Acres Construction Yard. Rough Acres was also utilized for helicopter activities.
4. Material staging and deliveries were made to Thomas Yard.
5. Material staging and tower structure assembly continued at the Jacumba Valley Ranch (JVR) Yard. JVR Yard was also utilized for helicopter operations.
6. Material staging and tower assembly took place at the Wilson Fly Yard.
7. Material staging and tower assembly occurred at the Helix Construction Yard and are nearing completion.
8. Material staging and tower assembly occurred at the SWAT Construction Yard.
9. Material staging and tower assembly occurred at the Hartung Construction Yard and are nearing completion.
10. Material staging and tower assembly occurred at the Bartlett-Hauser Construction Yard (see Figure 6). The yard was also utilized for helicopter operations. The access road was graded.
11. Material staging and tower assembly occurred at the Kreutzkamp Construction Yard. The access road was graded.

BLM Lands:

12. Material staging and tower assembly occurred at the Plaster City Yard. The yard was also utilized for helicopter activities. New visual screening shade cloth test section was installed.
13. Material staging and tower assembly continued at Dunaway Yard.
14. Installation of perimeter fencing was completed at Imperial Valley (IV) Yard. Grading and access road improvements were conducted.

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 flat-tailed horned lizard (*Phrynosoma mcalli*) was run over and killed at the IV Yard. Nine flat-tailed horned lizards were relocated from the work area by a permitted biologist.
3. Approximately 2000 juvenile western toads (*Anaxyrus boreas*), one adult western toad, one gopher snake (*Pituophis catenifer annectens*), one tiger whiptail lizard (*Aspidoscelis tigris*), one Red-diamond rattlesnake (*Crotalus ruber*), and two Two-striped gartersnakes (*Thamnophis hammondi*) were relocated at the Kreutzcamp Construction Yard.
4. One Red-diamond rattlesnake, one gopher snake, eight western toads, one tiger whiptail, one long-nosed snake, and one California meadow vole were relocated at the Hartung Construction Yard.
5. One gopher snake was relocated at the Helix Construction Yard.

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 06/02/2011)

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 06/02/2011)

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.

Variance Request	Date Requested	Date Issued	Segment #	Description
#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 06/02/2011)

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	04/14/11	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 06/02/2011)

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

Type	Date	Location	Description
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 06/02/2011)

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.

PROJECT PHOTOGRAPHS



Figure 1: Non-project related tracks diverting from access road to EP 84 after rains, Link 2.



Figure 2: Loritz Property fill and water pumping, Link 4.



Figure 3: Signs left by OHV users, Link 1.



Figure 4: Tracks left by water truck at EP340, Link 1.



Figure 5: Culvert across BTT, Suncrest Substation, Link 3.



Figure 6: Environmentally Sensitive Area (ESA) at Bartlett-Hauser Construction Yard, Link 2.