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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: May 18, 2011
Subject: Weekly Report 33 – May 1 to May 7, 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 structure assembly was performed at Towers EP210, EP211, EP213, EP214, EP217, EP218, EP19, EP220-1, EP243, and EP244 (see Figure 1).
- Micropile drilling and grouting took place at EP238-1; it has been re-drilled.
- Micropile trimming occurred at EP225-1.
- Pole sites were excavated and set, and wire was pulled on the Jacumba Valley Ranch (JVR) 12 kV line.

BLM Lands:

- Conventional foundations were drilled at EP337, EP338, EP343, and EP344 (see Figure 2).
- Conventional foundations were poured and forms were disassembled at EP338 and EP343 (see Figure 3).
- Concrete preparation work occurred at EP337 and EP344.
- Micropile soil boring took place at EP329.
- Desert pavement removal and salvage was performed at EP339.
- Grading occurred at EP320, EP320-N, EP321, EP322-1-N, EP327, EP327-N, EP331, EP336, EP337, EP337-N, EP339, EP339-N, EP343, EP345-N, EP348, EP350, and EP350-N.

2. Link 2, 500 kV Overhead Transmission Line:

Non-Federal Lands:

- Micropile drilling, grouting, and trimming occurred at Towers EP79, EP 84, and EP86-1.



3. Link 4, 220 kV Underground Transmission Line (non-federal lands only):
 - Potholing occurred from Vaults V3R to V4R and V7R to V8R.
 - Excavating occurred at V9R and V15R (see Figure 4).
 - Ins-and-outs occurred at V3L, V5L, and V9R.
 - Trenching occurred from V4L to V5L, V8R to V9R, and V11L to V12L.
 - Pre-drilling and drilling occurred from V3R to V4R, V4L to V5L, V7L to V8L, and V14R.
 - Saw cutting occurred from V2R to V4R, V5R to V7R, and V8R to V9R.
 - Encasement pouring occurred from V4L to V5L.
 - Proofing occurred from V13L to V15L, V16L, and V17L.
 - Milling and setting plates occurred from V3L to V5L, V8R to V9R, V11L to V12L, V15R, and the Alpine Creek bore site
 - Paving occurred from V4L to V6L, V8R to V9R, V9L, V11L to V12L, and V16R.
 - Vault setting occurred at V9R and V16R.
 - Bridge work occurred at the Viejas Creek Bridge.
 - Shoring occurred at the Alpine Creek bore site.
 - Cable pulling and testing occurred from V17L to V18L.
 - Conduit package installation occurred at the Interstate 8 bore site.
 - Grading occurred at the Loritz property.
4. Link 5, 220 kV Overhead Transmission Line:

Non-Federal Lands:

 - Conventional foundations were drilled at Tower CP 25-2.
 - Foundation revealing and cleanup occurred at CP 26.
 - Work on the 69 kV Reconductoring Line Tie Line (TL) 6916 continued. On TL 6916 Rue Biarritz underground portion, trenching, conduit installation, backfilling, and re-paving occurred.
 - Safety grounding and reframe work occurred on TL 6919.
 - No work occurred on TL 639 during this reporting period.

Environmental Compliance:

1. Biological, Cultural, and Native American monitors were present as applicable during all transmission line construction activities.
2. On May 3 and 4, 2011, unanticipated cultural discoveries were made in the vicinity of EP337. The procedures and guidelines for Treatment for Unanticipated Discoveries as set forth in the Final Historic Properties Management Plan were implemented. ESA flagging was installed and no impact occurred.
3. On May 5, 6, and 7, 2011, paleontological discoveries were made at EP332. Samples were collected and the appropriate agencies were notified in accordance with the approved Paleontological Monitoring and Discovery Treatment Plan.
4. On May 5, 2011, it was noted to the Link Lead that all project parking must be in project approved areas. Immediate action was taken and there was no further issue.
5. It was noted that military training activities took place in the vicinity of EP322 which created visible dust. Dust control was performed for construction activities only.

6. BMPs were installed or refreshed on access roads, TSAPs, and pads associated with structures on Link 1:
Non-Federal Lands:
 - None.
 BLM Lands:
 - EP320-1, EP321, EP331, EP336, EP337, EP339, EP340, EP343, EP344, EP345, EP348, EP349, EP350, EP351, EP352, EP356, EP357, EP358, EP359, EP360, EP361, EP362, and EP363
 7. BMPs were installed or refreshed on access roads, TSAPs, and pads associated with structures on Link 2:
Non-Federal Lands:
 - None.
 BLM Lands:
 - None.
 8. BMP installation and/or maintenance continued along Alpine Boulevard and the Loritz property, Link 4 (non-federal lands only).
 9. Link 4 (non-federal lands only):
 - No activity occurred at the Bauer Bridge location due to active nest buffer restrictions.
 - At Vault 5, a small fire occurred as a crew was grinding trench plates to prepare for welding the plate closed. Sparks bounced off of trackhoe bucket and landed in dry vegetation (grass) at the edge of the road. Quick action by the PAR fire watch held the fire to an area of 5x7 feet.
 10. Cleanup and BMP work occurred on TL 6916 and TL 639, Link 5 (non-federal lands).
 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 continued on the pad. Drilling and blasting continued in several locations throughout the pad. Rock and soil were excavated and compacted in various locations on the pad. The soil retention wall in the northern canyon was completed and work began on the wall in the southern drainage (see Figure 5). Concrete pouring in brow ditches along the access road and substation pad continued. Installation of the permanent drainage system continued.
2. Imperial Valley Substation Upgrade (BLM lands): Conventional foundations were drilled and structures were assembled. Gas circuit breaker, potential transformer, switch stands, and bus supports were installed. Trenching occurred in Bay #4 for cable vaults to tie into the control building. Concrete pads and conduit were worked in Bay #4. Disconnects and circuit breakers were installed in Bay #4.
3. San Luis Rey Substation (non-federal lands): No work occurred due to active bird nest buffer restrictions.
4. Encina Substation (non-federal lands): Conventional foundations were drilled. A transmission pole was replaced in the southwest corner of the substation. A gas circuit breaker, potential transformer, switch stands, and dead end pads were installed. A crew continued building a perimeter fence around the switchyard.
5. Sycamore Substation (non-federal lands): A transmission pad was installed.
6. Scripps Ranch Substation (non-federal lands): Wiring and testing of a new breaker occurred and grounds were set.

Environmental Compliance:

1. All applicable Biological, Cultural, Paleontological, and Native American monitors have been present during ground disturbing activities at all substations.
2. The Storm Water Pollution and Prevention Plan (SWPPP) Monitor conducted daily inspections and worked with the contractor for areas in need of repair at Suncrest Substation. One red diamond (*Crotalus ruber ruber*) rattlesnake was discovered near the parking area and relocated outside of the disturbance area. Use of the two existing ponds on the Wilson property as a water source has been conducted in accordance with SWRCB and CDFG permits.
3. Active nest monitoring occurred at Imperial Valley Substation.
4. A Biological Monitor has been at the Encina Substation for all work, including monitoring the American kestrel nest and the approved buffer reduction area.

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 tower assembly 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. No work occurred at Thomas Yard.
5. Material staging and tower structure assembly continued at the 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.
8. Material staging and tower assembly occurred at the SWAT Construction Yard (see Figure 6).
9. Material staging and tower assembly occurred at the Hartung Construction Yard.
10. Material staging and tower assembly occurred at the Bartlett-Hauser Construction Yard. The yard was also utilized for helicopter operations.
11. Material staging and tower assembly occurred at the Kreutzkamp Construction Yard.

BLM Lands:

12. Material staging and tower assembly occurred at the Plaster City Yard.
13. Perimeter fence was installed at Dunaway Yard.

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 (see Figure 7).
2. An unexploded ordinance (UXO) was discovered at the Dunaway Yard, Link 1. The appropriate agencies were notified and the UXO was deployed onsite by the Imperial County Bomb Squad.

3. On May 7, 2011, an unanticipated cultural discovery was made at Dunaway Yard, Link 1. The procedures and guidelines for Treatment for Unanticipated Discoveries as set forth in the Final Historic Properties Management Plan were implemented. ESA flagging was installed and no impact occurred.
4. Three coast horned lizards (*Phrynosoma coronatum*) were relocated at Rough Acres Yard, Link 1.
5. Two flat tailed horned lizards (*Phrynosoma mcallii*) were relocated by a certified handler at Dunaway Yard, Link 1.
6. One Coronado skink (*Plestiodon skiltonianus interparietalis*), three Coast patch-nosed snakes (*Salvadora hexalepis virgultea*), and two Two-striped gartersnakes (*Thamnophis hammondi*) were relocated at the Kreuzcamp Construction Yard.
7. One Coastal whiptail (*Aspidoscelis tigris stejnegeri*), one San Diego ringneck snake (*Diadophis punctatus similis*), and one Coast patch-nosed snake (*Salvadora hexalepis virgultea*) were run over and killed at the Kreuzcamp Construction Yard.
8. Visual screening blankets were installed on several construction yard fences per Variance #14 (see Figures 8 & 9).

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 05/18/2011)

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 05/18/2011)

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	Under Review	Link 2	Alternate access to EP 84.
#16	05/16/11	Under Review	Link 4	Additional parking space for use during underground construction.
#17	05/18/11	Under Review	Encina Substation	Driveway improvement.

TABLE 3
TEMPORARY EXTRA WORKSPACE (TEWS) REQUESTS
 (Updated 05/18/2011)

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, Non-Compliance Reports, and other incidents that have occurred to date are presented in Table 4.

TABLE 4
NON-COMPLIANCES (NC), PROJECT MEMORANDA (PM), AND OTHER INCIDENTS
 (Updated 05/18/2011)

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 05/18/2011)

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.

PROJECT PHOTOGRAPHS



Figure 1: Conventional tower assembly at EP210, Link 1.



Figure 2: Steel plate with appropriate soil mounded around edges at EP337, Link 1.



Figure 3: Conventional foundation pouring at EP338, Link 1.



Figure 4: Vault excavation on Alpine Boulevard, Link 4.



Figure 5: Completed northern soil retention wall at Suncrest Substation, Link 3.



Figure 6: Tower assembly at SWAT Construction Yard, Link 2.



Figure 7: ESA signage and buffer around active nest on water tank at SWAT Construction Yard, Link 2.



Figure 8: Visual screening fence installed at Helix Construction Yard, Link 5.



Figure 9: Visual screening fence installed at the entrance of Helix Construction Yard, Link 5.