



Aspen *Environmental Group*

**PROJECT MEMORANDUM
PG&E JEFFERSON-MARTIN 230KV TRANSMISSION PROJECT**

To: Billie Blanchard, CPUC
From: Vida Strong, Aspen Project Manager
Date: February 9, 2006
Subject: Monthly Report #6: January 1, 2006 – January 31, 2006
CPUC Environmental Monitor (EM): Jody Fessler

CPUC EM Jody Fessler was on site throughout the month of January along Segments 1, 2, 3, 4, and 5, and the Jefferson and Martin Substations.

SEGMENT 1

Table 1A presents the construction activities along Segment 1 during January. Along Cañada Road and Skyline Boulevard, the daytime shift worked Monday through Friday the first two weeks of January, and Monday through Saturday the last two weeks of January. Crews conducted communication box preparation, fiber optic cable pulling, and fiber optic cable splicing. One PG&E EI/Biological Monitor was on-site for every two manholes during cable pulling and splicing work. Traffic controls were placed around the manholes including flaggers, signs, and cones.

Trenching activities from Manhole #1 southeast into the Jefferson Substation continued throughout the month of January.

Throughout the month of January, trenching activities and conduit installation took place on either side of Crystal Springs Dam to the temporary transition towers for the dam crossing (Figure 1). During the fourth week of January, both of the temporary transition towers for the dam crossing were erected.

B&V and ILB are using the Caltrans Staging Yard on Hwy 92/Hwy 35 and the Caltrans Staging Yard at the corner of Skyline Boulevard and Hayne Road/Golf Course Drive to store materials and equipment for cable installation and overhead activities. Crews are still using the Staging Yard at 50 Edwards Court in Burlingame to store equipment and materials.

Table 1A – Segment 1 Construction Activities during January 2006

Week	Manhole Installation	Conduit Installation	Stubout Installation	Proofing Conduit	Manhole Prep/Cable Pulling	Splicing Cable	Tower Installation at Dam Crossing
Jan 1 – Jan 7	Complete	Manhole #1 to Jefferson Substation, North side of Crystal Springs Dam	Manhole #22B	Complete	NA	NA	NA
Jan 8 – Jan 14	Complete	Manhole #1 to Jefferson Substation, Either side of Crystal Springs Dam	Complete	Complete	Fiber Optic cable pulled at various locations throughout the segment	NA	NA
Jan 15 – Jan 21	Complete	Manhole #1 to Jefferson Substation, South side of Crystal Springs Dam	Complete	Complete	NA	NA	NA
Jan 22 – Jan 28	Complete	Manhole #1 to Jefferson Substation, Either side of Crystal Springs Dam	Complete	Complete	Fiber Optic cable pulled at various locations throughout the segment	Fiber Optic cable spliced at various locations throughout the segment	1-25-06 Tower erected on south side of dam, 1-26-06 Tower erected on north side of dam
Jan 29 – Jan 31	Complete	Manhole #1 to Jefferson Substation	Complete	Complete	Fiber Optic cable pulled at various locations throughout the segment	Fiber Optic cable spliced at various locations throughout the segment	NA

NA – No Activity

Environmental Compliance Activities:

Since it is not the nesting season, bird surveys were not conducted during January. Bird surveys will resume February 1st.

On January 4th, 5th, 10th, 11th, 12th, 13th, and 20th, there were sightings of California red-legged frog along the segment.

No concerns or non-compliances were issued by PG&E’s Environmental Inspectors along Segment 1 during the month of January.

The CPUC EM observed that Segment 1 construction activities were in compliance with mitigation measures adopted in the EIR and other permit requirements. Erosion controls were in place around the construction areas.

SEGMENT 2 - UNDERGROUND

Table 2A presents the underground construction activities along Segment 2 during January. All construction for Segment 2 is complete except cable pulling and splicing. Fiber optic cable pulling and splicing was conducted on January 12th, January 17th through 22nd, and January 23rd through 28th. A PG&E Environmental Inspector was on-site to monitor construction activities.

B&V is now using the northern Caltrans Staging Yard at the corner of Skyline Boulevard and Hayne Road/ Golf Course Drive to store materials and equipment for cable installation activities. Crews are still using the Staging Yard at 60 Edwards Court in Burlingame to store equipment and materials.

Table 2A – Segment 2-Underground Construction Activities during January 2006

Week	Manhole Installation	Conduit Installation (Linear Feet)	Stubout Installation	Proofing Conduit	Manhole Prep/Cable Pulling	Splicing Cable	Final Punch-list Work
Jan 1 – Jan 7	Complete	Complete	Complete	Complete	NA	NA	Complete
Jan 8 – Jan 14	Complete	Complete	Complete	Complete	1-12-06 Fiber optic cable pulling	NA	Complete
Jan 15 – Jan 21	Complete	Complete	Complete	Complete	Fiber optic cable pulling	Fiber optic cable splicing	Complete
Jan 22 – Jan 28	Complete	Complete	Complete	Complete	Fiber optic cable pulling	Fiber optic cable splicing	Complete
Jan 29 – Jan 31	Complete	Complete	Complete	Complete	Fiber optic cable pulling	Fiber optic cable splicing	Complete

NA – No Activity

Environmental Compliance Activities:

Since it is not the nesting season, bird surveys were not conducted during January. Bird surveys will resume February 1st.

The underground work area in the SFPUC Watershed will be surveyed after germination to ensure that star thistle was not introduced into the area.

No concerns or non-compliances were issued by PG&E’s Environmental Inspectors along Segment 2 Underground during January.

The CPUC EM observed that Segment 2 Underground construction activities were in compliance with mitigation measures adopted in the EIR and other permit requirements.

SEGMENT 2 – OVERHEAD

Table 3A presents the overhead construction activities along Segment 2 Overhead in the SFPUC Watershed during January. The line builder crew (ILB) worked Monday through Saturday of each week, and the tree clearing crews worked Monday through Friday of each week. ILB crews erected new towers, installed travelers, moved transmission lines from the old towers to the new towers, performed dead-ending work, installed insulators, and removed some of the old lattice towers and their concrete footings. On January 10th and 11th, sock line was flown by helicopter from Tower #70A through Tower #77 (Figure 2). On January 19th, a helicopter with a man in a basket was used to install bird diverters on the OPGW line (Figure 3). Burrow excavation continued throughout the month of January at various locations in the watershed.

Table 3A – Segment 2 - Overhead Construction Activities during January 2006

Week	Snake Burrow Clearing	Tree Clearing	Biological Exclusion Fence Installation	Erosion Controls and Road Maintenance	New Tower Erected	Old Tower Removed	Line Work
Jan 1 – Jan 7	Near Towers #84 & #85	Around Towers #70A, #71, #72, #73, and #84	NA	Erosion controls maintained throughout segment; Access road to Towers #71 and #72 repaired	Installation of ladders on Towers #71, #72, #73, #74, and #76	Towers #71, #72, #74, and #76, Removal of concrete footings from existing Towers #71, #72, #73, and #76	NA
Jan 8 – Jan 14	Near Towers #84 & #85	Around Tower #84	NA	Erosion controls maintained throughout the segment	NA	NA	Traveler and guard structure installation, sock line installation on Towers #70A through #77
Jan 15 – Jan 21	Near Towers #84 & #85	Around Towers #84 & #85	NA	Erosion controls maintained throughout the segment	NA	NA	Cable pulling and sagging between Towers #70A - #77, & #83 - #84; Installation of dead ends and insulators on Towers #71 - #76; Installation of bird diverters on fiber optic cable between Towers #70A - #77
Jan 22 – Jan 28	Near Towers #83 & #85	Finished work on 1-24-06	Exclusion fence around wetland near Tower #83 was closed on 1-25-06	Erosion controls maintained throughout the segment	Ladder installation at Tower #70A	Removal of concrete footings from existing Towers #71, #74, and #76	Jumper installation at Towers #77; Dead-ending and insulator installation at Towers #71 & #72; Removal of all old wires and insulators from Tower #75; Installation of support cables at Tower #77; Sagging and dead-ending wire on the 60kV side of Towers #76 & #77; Installed travelers on Towers #81A, #83, #86, and #93
Jan 29 – Jan 31	Near Tower #83	NA	NA	Complete	Towers #82, #83, #86 & #93	NA	Wire removal at Towers #82, #83 & #84

NA – No Activity

Environmental Compliance Activities:

Since it is not the nesting season, bird surveys were not conducted during January. Bird surveys will resume February 1st.

On January 5th, two San Francisco garter snakes were observed along the segment. On January 9th, a juvenile San Francisco garter snake was observed along the segment. On January 13th and 31st, an adult bald eagle was observed flying over the watershed reservoir. On January 18th, a juvenile bald eagle was observed flying over the watershed. On January 26th, an active Anna's hummingbird nest was observed in the watershed.

No concerns or non-compliances were issued by PG&E's Environmental Inspectors along Segment 2 Overhead during January.

The CPUC EM observed that construction activities were in compliance with mitigation measures adopted in the EIR and other permit requirements. Erosion controls were in place around the construction areas.

Other incidents:

On Thursday, January 19th, a fuel tank on a flat-bed truck in the laydown yard spilled approximately one gallon of diesel fuel onto the road base. Absorbent pads and cat litter were used to clean up the spill. The top three to four inches of road base was then dug up and disposed of properly.

SEGMENT 3

Table 4A presents the underground construction activities along Segment 3 during January. Crews worked Monday through Friday during the day on Glenview Drive, San Bruno Avenue, and Huntington Drive conducting trenching operations (see Figure 4). Nighttime work was conducted Sunday night through Thursday nights. A PG&E EI was on-site during construction activities to inspect environmental compliance at the work sites. Traffic controls were in place at the construction sites including flaggers, signs, and cones.

Crews continue to use their staging yards under Highway 380 just east of Huntington Avenue and at the corner of Skyline Boulevard/Highway 35 and San Bruno Avenue.

Table 4A – Segment 3 Construction Activities during January 2006

Week	Manhole Installation	Conduit Installation (Linear Feet)	Stubout Installation	Proofing Conduit	Manhole Prep/Cable Pulling	Splicing Cable
Jan 1 – Jan 7	Complete	Unknown	NA	NA	NA	NA
Jan 8 – Jan 14	Complete	Unknown	NA	NA	Manhole #40 rack installation	NA
Jan 15 – Jan 21	Complete	300	NA	NA	NA	NA
Jan 22 – Jan 28	Complete	500	NA	Throughout segment	NA	NA
Jan 29 – Jan 31	Complete	200	NA	NA	NA	NA

NA – No Activity

Environmental Compliance Activities:

Since it is not the nesting season, no bird surveys were conducted during January. Bird surveys will resume February 1st.

Four concerns and two non-compliances were issued by PG&E's Environmental Inspectors along Segment 3 during January. Table 4B presents a summary of the non-compliance activities along Segment 3 during January.

Table 4B – Segment 3 Non-Compliance Activities during January 2006

Date	PG&E/Opus		CPUC/Aspen		Description
	Concern	Non-Compl	PM	NCR	
Jan 5	X				Inadequate dust control during nighttime zipping operations.
Jan 8	X				Inadequate dust control during zipping operations.
Jan 8	X				Leaking baker tank and water truck. Baker tank leak was repaired Jan 9 th , and water truck has not returned to site.
Jan 10	X				Staging yard contained improperly stored hazardous material, litter, a leaking baker tank, and uncovered spoil piles. Issues were resolved Jan 12 th and 13 th .
Jan 12		X			Failure to implement SWPPP measures identified as a concern that was issued on Jan 10 th . SWPPP measures implemented by Jan 13 th .
Jan 20		X			Improper containment of diesel fuel in the staging yard and a diesel spill of 2 to 3 gallons. Spill was cleaned up and diesel is properly contained now.

PM – Project Memorandum

NCR – Non-Compliance Report

The CPUC EM observed that other construction activities were in compliance with mitigation measures adopted in the EIR and other permit requirements. Erosion controls were in place around the construction areas.

SEGMENT 4

Table 5A presents the underground construction activities along Segment 4 during January. Crews worked Monday through Saturdays along Segment 4. Cable crews worked along the segment throughout the month of January, preparing manholes, proofing conduit, pulling cable, and splicing cable. A PG&E EI was on-site during construction activities to inspect environmental compliance at the work sites. Traffic controls were in place at the construction sites including flaggers, signs, and cones. Some planting of shrubs for restoration purposes was also conducted within the BART right-of-way during the third week of the month.

Table 5A – Segment 4 Construction Activities during January 2006

	Manhole Installation	Conduit Installation (Linear Feet)	Stubout Installation	Proofing Conduit	Manhole Prep/Cable Pulling	Splicing Cable
Jan 1 – Jan 7	Complete	Complete	Complete	NA	Manholes #53 - #57	Manholes #53 - #57
Jan 8 – Jan 14	Complete	Complete	Complete	NA	Manholes #53 - #61	Manholes #53 - #61
Jan 15 – Jan 21	Complete	Complete	Complete	NA	Manholes #58 - #65; Fiber optic cable pulling from comm box near Manholes #53 - #55 and #57 - #59	Manholes #58 - #65
Jan 22 – Jan 28	Complete	Complete	Complete	NA	NA	Manholes #61 & #62; Fiber optic cable splicing at Manhole #55
Jan 29 – Jan 31	Complete	Complete	Complete	NA	NA	NA

NA – No Activity

Environmental Compliance Activities:

Since it is not the nesting season, no bird surveys were conducted during January. Bird surveys will resume February 1st.

No concerns or non-compliances were issued by PG&E’s Environmental Inspectors during the month of January.

The CPUC EM observed that construction activities were in compliance with mitigation measures adopted in the EIR and other permit requirements. Erosion controls were in place around the construction areas.

SEGMENT 5

Table 6A presents the underground construction activities along Segment 5 during January. Crews worked Monday through Friday and a few Saturdays, during the day, conducting manhole preparation work, cable pulling, cable splicing, and restoration work in Daly City on Hillside Drive and East Market Street, and in the City of Brisbane on the east side of San Bruno Mountain on Guadalupe Canyon Parkway and Bayshore Boulevard. A PG&E EI was on-site during construction activities to inspect environmental compliance at the work sites. Traffic controls were in place at the construction sites including flaggers, signs, cones, and k-rail.

Table 6A – Segment 5 Construction Activities during January 2006

Week	Manhole Installation	Conduit Installation (Linear Feet)	Stubout Installation	Proofing Conduit	Manhole Prep/Cable Pulling	Splicing Cable
Jan 1 – Jan 7	Complete	Complete	NA	NA	Manhole #65	NA
Jan 8 – Jan 14	Complete	Complete	NA	NA	Manholes #63 - #66, Manholes #73 & #74	NA
Jan 15 – Jan 21	Complete	Complete	NA	NA	Manholes #73 - #74, Manhole #76, Fiber optic cable pulled from comm. box near Manholes #61 - #65, #67 - #69, and #71 - #73	Manhole #63
Jan 22 – Jan 28	Complete	Complete	NA	Manhole # 78 to tower base at Martin Sub, Fiber optic from comm. box near Manhole #77 to comm. box in Martin Sub	NA	Manholes #63 - #66
Jan 29 – Jan 31	Complete	Complete	NA	Fiber optic from comm. Box near Manholes #77, #79 to comm. box in Martin Sub	NA	Manholes #63, #64, and #66

NA – No Activity

Environmental Compliance Activities:

Since it is not the nesting season, bird surveys were not conducted during January. Bird surveys will resume February 1st.

No concerns or non-compliance activities were noted by PG&E’s Environmental Inspectors during the month of January along Segment 5.

The CPUC EM observed that construction activities were in compliance with mitigation measures adopted in the EIR and other permit requirements. Erosion controls were in place around the construction areas.

Other Incidents:

On January 11th, an issue was noted on Segment 5 where areas of the Bayshore Boulevard road shoulder (just outside of the Martin Substation) are in need of grass seed or sod due to disturbance.

JEFFERSON SUBSTATION

During the month of January, crews continued to work at the Jefferson Substation Mondays through Saturdays and a few Sundays. Trenching activities continued from Manhole #1 southeast into the substation (see Figure 5). Work within the substation also continued and included trenching for the installation of

ground wire, concrete pouring, and installation of footings, buses, conduit, ground wire, and shunt-reactors. Work was also conducted on the breakers and transformers. Fence installation and expansion occurred at the southeast corner of the substation. During the fourth week of January, slurry was poured at the riser pole. A crew also excavated, dewatered, and installed framework in the retention basin located in the parking area outside of the substation fence. In the wetland area where the cable comes into the substation underground, installation of a road base took place in order for large equipment to get to two pole sites. A full-time Biological Monitor was present during all work. A PG&E EI also visited the site periodically to ensure environmental compliance with project requirements.

Environmental Compliance Activities:

One concern or was issued by PG&E's Environmental Inspectors for the Jefferson Substation during January. On Monday, January 2nd, work was conducted without a monitor for a few hours in the morning within the existing substation fenced area.

The CPUC EM observed that other Jefferson Substation construction activities were in compliance with mitigation measures adopted in the EIR and other permit requirements. Erosion controls were in place around the construction areas.

MARTIN SUBSTATION

During the month of January, crews continued to work at the Martin Substation, Monday through Friday. Work at the Martin Substation included trenching, conduit installation, cable tray installation, construction of footings and forms, construction of bus-line support structures. Construction of circuit-breaker structures and installation of circuit breakers also occurred. During the fourth week of January, the drilling of foundation pits for the towers were started and the fence expansion began (see Figure 6).

Environmental Compliance Activities:

Lampblack was discovered on January 27, at the Tower #123 (dead end structure) foundation pit. The material was handled by Haz Mat trained personnel in protective gear and all of the equipment associated with working at the foundation pit was properly cleaned. PG&E/Opus will be providing a follow up report to the CPUC EM.

No concerns were issued by PG&E's Environmental Inspectors for Martin Substation during January.

The CPUC EM observed that all Martin Substation construction activities were in compliance with mitigation measures adopted in the EIR and other permit requirements. Erosion controls were in place around the construction areas.

NOTICES TO PROCEED (NTP):

Table 6 presents the NTPs issued by the CPUC for the Jefferson-Martin Project as of the end of January. With the exception of an NTP for the permanent Crystal Springs Dam crossing, no additional NTPs are anticipated.

TABLE 6
NOTICES TO PROCEED
(Updated 02-09-06)

NTP #	Date Issued	Description
#1	1-10-05	Segment 1, underground only Segment 5, unincorporated San Mateo County only
#2	3-08-05	Segment 2, underground only, not including SFPUC lands
#3	3-11-05	Segment 5, incorporated
#4	3-11-05	Segment 3
#5	3-30-05	Segment 4
#6	8-03-05	Segment 2 Underground in the SFPUC Watershed
#7	8-10-05	Martin Substation
#8	8-26-05	Segment 2 Overhead
#8 Amendment	12-21-05	Segment 2 Overhead; remove additional trees between Towers #70A and #71 for line clearance purposes.
#9	9-01-05	Jefferson Substation expansion area and construction of the temporary Lower Crystal Springs Overhead Dam Crossing

ENVIRONMENTAL COMPLIANCE:

Three Non-Compliance Reports (NCR) and eight Project Memorandums (PMs) have been issued by the CPUC EMs for the project as of the end of January (see Table 7).

TABLE 7
ENVIRONMENTAL COMPLIANCE STATUS
(Updated 02-09-06)

Project Memo or NCR	Date Issued	Description	Follow-Up Activities
NCR (Level 3)	2-01-05	Segment 2 Overhead – Dismantling and removal of woodrat nests along the overhead route without consulting with CDFG.	PG&E consulting with CDFG on how to proceed.
PM	2-09-05	Segment 1 – Breach of trenching activities into vegetated drainage on east side of Cañada Road between MH #7 and MH #8.	PG&E consulting with CDFG and USFWS on how to proceed.
PM	2-16-05	Segment 5 – Dewatering of Manhole #67 vault pit without consulting with RWQCB on handling of water	PG&E consulting with RWQCB on how to proceed with storm water and groundwater.
PM	3-04-05	Segment 1 – Hummingbird nest found near Manhole #5 on Monday, Feb. 28 th , and not reported to CPUC or CDFG until Thursday, March 3 rd .	PG&E discussing better communication between PG&E and sub-contractors.
PM	5-27-05	Segment 2 Underground – Construction went past the City of Burlingame’s Encroachment Permit on May 25 th , and May 26 th .	PG&E response submitted 6-14-05.
PM	5-27-05	Segment 2 Underground – Several traffic control violations were observed. A traffic control flagger left his post several times which endangered the public.	PG&E response submitted 6-14-05.
PM	6-01-05	Segment 1 – End dump parked on vegetation in the Caltrans right-of-way disturbing vegetation	PG&E response submitted 6-15-05.
PM	6-20-05	Segment 1- Construction vehicle parked on vegetation near the Caltrans yard	PG&E response received 6-22-05
NCR	7-13-05	Segment 1 – Construction vehicle parked on vegetation at Station # 287+00 on the night of July 11 th .	PG&E response received
NCR	7-22-05	Segment 1 – Cable Pulling truck and trailer rolled off the road onto vegetation at Manhole #3 on July 18 th .	PG&E response received
PM	10-27-05	Segment 4 - Inadequate clean-up on the roadway in several locations on Hillside Avenue.	PG&E response received

VARIANCE REQUESTS:

Table 8 represents the Variance Requests submitted and approved to date for the project. Two Variance Requests were submitted during the month of January.

TABLE 8
VARIANCE REQUEST STATUS
 (Updated 02-09-06)

Variance Request #	Date Submitted	Description	Status	CPUC Approval Date
1	1-14-05	40 Edwards Court, Burlingame – Paved parking lot that is fenced to be used as a staging yard.	Approved	1-18-05
2	2-04-05	Staging yard, Airport Boulevard & North Access Road., South San Francisco.	Approved	2-09-05
3	2-22-05	Change compliance timing for Mitigation Measure U-1c, corrosion, from pre-construction to during construction.	Approved	3-04-05
4	4-28-05	Staging yard, Herman Street and Forest Lane, City of San Bruno	Approved	5-03-05
5	5-12-05	Jefferson Substation Expansion Area – Cap well, empty water out of tank into truck, and remove tank from property	Approved	5-20-05
6	5-24-05	Staging yard for Segment 4 construction, intersection of Antoinette Lane and Mission Road, City of South San Francisco.	Approved	5-26-05
6 Modification	6-22-05	Additional staging yard for Segment 4, next to yard approved in Variance #6.	Approved	6-28-05
7	06-06-05	Intrusion into vegetated areas at several locations along Segment 1.	Approved	6-13-05
8	7-14-05	Modification of the trench depth along a 400-foot section of trench north of S. Spruce Avenue (Segment 4).	Approved	7-19-05
9	7-15-05	Staging Yard for Segment 4 off of Hillside Drive in the City of Colma.	Approved	8-17-05
10	7-22-05	Expansion of Jefferson Substation	Approved	8-31-05
11	8-04-05	Intrusion into vegetated shoulder at 7 locations along Segment 1.	Approved	8-18-05
12	8-18-05	Additional workspace along road in Segment 2 underground in the SFPUC Watershed.	Approved	8-22-05
13	10-06-05	Staging Yard for Segment 3 at northeast corner of Skyline Boulevard and San Bruno Avenue in the City of San Bruno.	Approved	10-06-05
14	1-05-06	Retention basin and associated drainages at the Jefferson Substation	Approved	1-09-06
15	1-10-06	Work in SFPUC watershed on a holiday (MLK Jr. Holiday) and close public trails	Approved	1-11-06

UPCOMING ITEMS:

PG&E holds the following weekly meetings to review issues and upcoming events:

- Segment 1 on Friday (8:00 a.m., San Mateo B&V office) and Tuesday (8:00 a.m., Hayward B&V office);
- Segment 2 Overhead on Tuesday (10:00 a.m., Hayward B&V office);
- Segment 3 on Tuesday (9:00 a.m., Hayward B&V office);
- Segment 5 on Monday (3:00 p.m., South SF Mueller/InfraSource Staging Yard) and Tuesdays (8:30 a.m., Hayward B&V office); and
- Cable pulling meeting on Tuesday (12:30 p.m., Hayward B&V office).

Photographs



Figure 1 – Crews pouring cement slurry around the transition tower foundation on the north side of Crystal Springs Dam, Segment 1, January 10, 2006.



Figure 2 – Helicopter flying sock line toward Tower #76 from Tower #77, Segment 2 Overhead, January 11, 2006.



Figure 3 – Helicopter dangling a man in a basket who is attaching bird diverters to the OPGW line between Towers #70A and #71, Segment 2 Overhead, January 19, 2006.



Figure 4 – Trenching activities on Glenview Drive, Segment 3, January 18, 2006.



Figure 5 – Trenching activities into the Jefferson Substation, January 10, 2006.



Figure 6 – Drilling tower foundation pits at the Martin Substation, January 25, 2006.