



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

**To:** Billie Blanchard, CPUC  
**From:** Vida Strong, Aspen Project Manager  
**Date:** January 6, 2006  
**Subject:** Monthly Report #5: December 1, 2005 – December 31, 2005  
**CPUC Environmental Monitor (EM):** Jody Fessler

CPUC EM Jody Fessler was on site throughout the month of December 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 December. Along Cañada Road and Skyline Boulevard, the daytime shift worked Monday through Friday conducting manhole preparation, cable pulling, and 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 December.

During the second week of December, ILB crews installed foundations for the transition towers on either side of Crystal Springs Dam (see Figure 1). During the third week of December, crews installed ground rods on the foundation structures.

No work was done on Segment 1 during the week of December 25 through December 31 due to the Christmas Holiday.

B&V and ILB are using the Caltrans Staging Yard on Hwy 92/Hwy 35 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 December 2005**

Week	Manhole Installation	Conduit Installation	Stubout Installation	Proofing Conduit	Manhole Prep/Cable Pulling	Splicing Cable	Final Punch-list Work
Dec 1-3	Complete	Manhole #1 to Jefferson Substation	Complete	Complete	Manhole #27	Manholes #15, #24-#27	Complete
Dec 4-10	Complete	Manhole #1 to Jefferson Substation	Complete	Complete	NA	Manholes #24-#27	Complete
Dec 11-17	Complete	Manhole #1 to Jefferson Substation	Complete	Complete	NA	NA	Complete
Dec 18-24	Complete	Manhole #1 to Jefferson Substation	Complete	Complete	NA	NA	Complete
Dec 25-31	Complete	NA	Complete	Complete	NA	NA	Complete

NA – No Activity

### Environmental Compliance Activities:

Since it is not the nesting season, bird surveys were not conducted during December.

One concern was issued by PG&E's Environmental Inspectors along Segment 1 during the month of December. On December 6<sup>th</sup>, it was noted that there were inadequate erosion and sediment controls. The identified issues were resolved before the end of the week.

The CPUC EM observed that other 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 December. All construction for Segment 2 is complete except cable pulling and splicing. Cable splicing was conducted during the second and third weeks of December. A PG&E Environmental Inspector was on-site to monitor construction activities.

No work was done on Segment 2 Underground during the week of December 25 through December 31 due to the Christmas Holiday.

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 December 2005**

<b>Week</b>	<b>Manhole Installation</b>	<b>Conduit Installation (linear feet)</b>	<b>Stubout Installation</b>	<b>Proofing Conduit</b>	<b>Manhole Prep/Cable Pulling</b>	<b>Splicing Cable</b>	<b>Final Punch-list Work</b>
Dec 1-3	Complete	Complete	Complete	Complete	NA	NA	Complete
Dec 4-10	Complete	Complete	Complete	Complete	NA	Manhole #28	Complete
Dec 11-17	Complete	Complete	Complete	Complete	NA	Manhole #28	Complete
Dec 18-24	Complete	Complete	Complete	Complete	NA	NA	Complete
Dec 25-31	Complete	Complete	Complete	Complete	NA	NA	Complete

NA – No Activity

### Environmental Compliance Activities:

Since it is not the nesting season, bird surveys were not conducted during December.

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 December.

The CPUC EM observed that Segment 2 Underground 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 – OVERHEAD**

Table 3A presents the overhead construction activities along Segment 2 Overhead in the SFPUC Watershed during December. The erosion control crew (road crew), utility locators, line builder crew (ILB), and tree clearing crews worked Monday through Friday of each week and some Saturdays. The drilling crew finished its foundation work in the Watershed the first week of December and de-mobilized from the site. During the first week of December, ILB conducted grounding and dead-ending activities. During the second, third, and fourth weeks of December, ILB erected new towers, moved transmission lines from the old towers to the new towers, and removed some of the old lattice towers (see Figures 2 through 4).

No work was done on Segment 2 Overhead during the week of December 25 through December 31 due to the Christmas holiday.

**Table 3A – Segment 2 - Overhead Construction Activities during December 2005**

Week	Utility Locating	Snake Burrow Clearing	Tree Clearing	Biological Exclusion Fence Installation	Access Road Installation	Structure Pad Installed	Foundation Installed	New Tower Erected	Old Tower Removed
Dec 1–3	Various locations along the segment	Near Towers #78, #84 & #85	Around Tower #76	Complete	Complete	Complete	Towers #93, #93A	NA	NA
Dec 4–10	Complete	Near Towers #83–#85	Around Towers #76, #85 & #93	Complete	Complete	Pad added at Tower Area #72 due to soft soil	Complete	Towers #73 & #77	NA
Dec 11–17	Complete	Near Towers #83–#85	Around Towers #71, #83, #84, & #85	NA	Complete	Complete	Complete	Towers #70A, #72, #74, & #76	Tower #73
Dec 18–24	Complete	NA	Around Towers #83 & #84	NA	Complete	Complete	Complete	NA	Towers #71, #72, #74, & #76
Dec 25–31	Complete	NA	NA	NA	Complete	Complete	Complete	NA	NA

NA – No Activity

**Environmental Compliance Activities:**

Since it is not the nesting season, bird surveys were not conducted during December.

Table 3B presents a summary of the non-compliance activities along Segment 2 Overhead during December.

**Table 3B – Segment 2 Overhead Non-Compliance Activities during December 2005**

Date	PG&E/Opus		CPUC/Aspen		Description
	Concern	Non-Compl	PM	NCR	
Dec 16	X				Wire removed from Towers #73 through #77 were left on the ground overnight. The wire was removed the next morning.
Dec 19	X				A small amount of soil accumulated on the paved road near Tower #83 where tree removal activities were occurring. The sediment was removed and straw was spread along the slope east of the road. Additional straw was spread and wattles were installed on Thursday, Dec. 22.
Dec 19		X			A small amount of grading work at Tower #70A was conducted without a biological monitor present. No sensitive resources were affected. The crew was reminded of the condition to always have a biological monitor present.

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 3**

Table 4A presents the underground construction activities along Segment 3 during December. Crews worked Monday through Friday during the day on Glenview Drive, San Bruno Avenue, and Huntington Drive conducting trenching operations. During the month of December, 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.

No work was done on Segment 3 during the week of December 25 through December 31 due to the Christmas Holiday.

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 December 2005**

Week	Manhole Installation	Conduit Installation (Linear Feet)	Stubout Installation	Proofing Conduit	Manhole Prep/Cable Pulling	Splicing Cable
Dec 1–3	Complete	300	NA	NA	NA	NA
Dec 4–10	Complete	400	Manhole #45	NA	NA	NA
Dec 11–17	Complete	400	NA	NA	NA	NA
Dec 18–24	Complete	Unknown	NA	NA	NA	NA
Dec 25–31	Complete	NA	NA	NA	NA	NA

NA – No Activity

## Environmental Compliance Activities:

Since it is not the nesting season, no bird surveys were conducted during December.

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

**Table 4B – Segment 3 Non-Compliance Activities during December 2005**

Date	PG&E/Opus		CPUC/Aspen		Description
	Concern	Non-Compl	PM	NCR	
Dec 2	X				Trash in the Glenview staging yard needed to be disposed of properly.
Dec 7	X				Trash in the Glenview staging yard needed to be disposed of properly. The trash was removed on Dec. 8 <sup>th</sup> .

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.

## Other Incidents

On Friday, December 2<sup>nd</sup>, a minor accident occurred at the intersection of the Highway 280 freeway off-ramp and San Bruno Avenue on Segment 3. It involved a car bumping into the back of the water truck, causing a small dent in the car. The contractor and B&V construction management personnel were on site, and a report was filled out by the San Bruno police.

On Monday night, December 12<sup>th</sup>, a cement slurry (FTB) leak within the trench allowed a significant amount of concrete to flow over and into two uncapped 4-inch conduits. This wet, uncured cement was mixed with trench soil, excavated out of the trench, and placed in an end-dump that had been lined with plastic sheeting. Also on Monday night, a cement truck spilled approximately 50 shovels full of cement slurry on the right-of-way within the construction zone near Station #896+00. Cleanup took place immediately and no resources were affected.

## SEGMENT 4

Table 5A presents the underground construction activities along Segment 4 during December. Crews worked Monday through Friday, and a few Saturdays along Segment 4. In the BART right-of-way, crews compacted soil and conducted restoration work. At the Colma BART Station and in the median of Lawndale Road, crews conducted restoration activities of the landscaped areas. Cable crews worked along the segment throughout the month of December, 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.

No work was done on Segment 4 during the week of December 25 through December 31 due to the Christmas Holiday.

**Table 5A – Segment 4 Construction Activities during December 2005**

Week	Manhole Installation	Conduit Installation (Linear Feet)	Stubout Installation	Proofing Conduit	Manhole Prep/Cable Pulling	Splicing Cable
Dec 1 – Dec 3	Complete	Complete	Manhole #56	Manholes #50–#53, #62–#63	Manholes #49–#52, #55–#58	NA
Dec 4 – Dec 10	Complete	Complete	Complete	Manholes #55–#57	Manholes #53–#55, #58–#60	Manholes #49–#52
Dec 11 – Dec 17	Complete	Complete	Complete	NA	Manholes #48, #55–#58, #60–#61	Manholes #48–#52
Dec 18 – Dec 24	Complete	Complete	Complete	NA	Manholes #49, #52, #55, #58, #60	NA
Dec 25 – Dec 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 December.

One concern was issued by PG&E’s Environmental Inspectors during the month of December. On December 5<sup>th</sup>, the silt fence between Orange Avenue and Spruce Drive needed maintenance.

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 5**

Table 6A presents the underground construction activities along Segment 5 during December. Crews worked Monday through Friday and some Saturdays, during the day, conducting trenching operations 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. Proofing of conduit was conducted throughout the month as well as manhole preparation activities. Road restoration occurred along the entire segment throughout the month of December. 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.

No work was done on Segment 5 during the week of December 25 through December 31 due to the Christmas Holiday.

Construction crews demobilized from their staging yard at the corner of North Access Road and South Airport Boulevard around the middle of December.

**Table 6A – Segment 5 Construction Activities during December 2005**

Week	Manhole Installation	Conduit Installation (Linear Feet)	Stubout Installation	Proofing Conduit	Manhole Prep/Cable Pulling	Splicing Cable
Dec 1-3	Complete	787	Manholes #65 & #76	NA	NA	NA
Dec 4-10	Complete	1010	NA	Manholes #76-#77	NA	NA
Dec 11-17	Complete	280	NA	Manholes #75-#77	NA	NA
Dec 18-24	Complete		NA	Manholes #63-#66	Manholes #64 & #67	NA
Dec 25-31	Complete	NA	NA	NA	NA	NA

NA – No Activity

**Environmental Compliance Activities:**

Since it is not the nesting season, bird surveys were not conducted during December.

No concerns or non-compliance activities were noted by PG&E’s Environmental Inspectors during the month of December 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 Tuesday, December 6<sup>th</sup>, a cave-in occurred which damaged a utility line (at approximately Station #1218+00) near Manhole #65 on East Market Street. The crew received permission from Daly City to work well past sunset that day (beyond the time specified in their encroachment permit) to repair the damaged line.

**JEFFERSON SUBSTATION**

During the month of December, crews continued to work at the Jefferson Substation Mondays through Saturdays. Trenching activities continued from Manhole #1 southeast into the substation. Work within the substation also continued and included the installation of breakers, switches, a switch box, a switch box tower, excavation for foundations, conduit installation and electrical work (see Figure 5). 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 December. On Tuesday, December 6<sup>th</sup>, there was inadequate erosion and sediment control. The identified issues were resolved before the end of the week.

The CPUC EM observed that 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.

## Other Incidents

On Tuesday, December 6<sup>th</sup>, a concrete truck spilled concrete onto the right-of-way within the wetland area. The concrete spill covered an area approximately 3 feet by 15 feet by 8 inches in dimension. The concrete was contained, allowed to dry, and was removed the following day. Some topsoil was lost as a result of the spill, but no other resource damage occurred.

On Monday, December 12<sup>th</sup>, approximately 2 inches of topsoil was lost in a 25-foot-long by 15-foot-wide area between Station 1+00 and 0+75 within the right-of-way when a pile of rocks was removed.

## MARTIN SUBSTATION

During the month of December, crews continued to work at the Martin Substation, Monday through Fridays. Work at the Martin Substation included trenching, conduit installation, riser form installation, and new structure work for the future substation components (see Figure 6).

### Environmental Compliance Activities:

One concern was issued by PG&E's Environmental Inspectors for Martin Substation during December. On Friday, December 16<sup>th</sup>, a concrete vehicle washed out within the Martin Substation without proper containment or monitoring. The washout residue was properly cleaned up.

The CPUC EM observed that all other 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 December. An amendment to NTP #8 was requested on December 14<sup>th</sup> for the additional removal of trees between Towers #70A and #71 in the SFPUC Watershed for line clearance purposes. The NTP #8 Amendment was approved by the CPUC on December 21<sup>st</sup>. With the exception of an NTP for the permanent Crystal Springs Dam crossing, no additional NTPs are anticipated.

**TABLE 6**  
**NOTICES TO PROCEED**  
(Updated 01-06-06)

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 December (see Table 7).

**TABLE 7  
ENVIRONMENTAL COMPLIANCE STATUS**  
(Updated 01-06-06)

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 <sup>th</sup> , and not reported to CPUC or CDFG until Thursday, March 3 <sup>rd</sup> .	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 <sup>th</sup> , and May 26 <sup>th</sup> .	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 <sup>th</sup> .	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 <sup>th</sup> .	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. No Variance Requests were submitted during the month of December.

**TABLE 8**  
**VARIANCE REQUEST STATUS**  
(Updated 01-06-06)

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 north-east corner of Skyline Boulevard and San Bruno Avenue in the City of San Bruno.	Approved	10-06-05

**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 (11:00 a.m., Hayward B&V office);
- Segment 3 on Tuesday (10:00 a.m., Hayward B&V office);
- Segment 4 on Monday (1:00 p.m., San Bruno B&V office) and Tuesday (9:30 a.m., Hayward B&V office); and
- Segment 5 on Monday (3:00 p.m., South SF Mueller/InfraSource Staging Yard) and Tuesdays (8:30 a.m., Hayward B&V office).

**AGENCY PERSONNEL CONTACTS:**

The CPUC EM periodically spoke with the BART Inspectors, the City of San Bruno Inspectors, the Colma Inspector, and the City of Brisbane Inspector regarding project related issues.

## Photographs



**Figure 1** – Crews finishing the foundation for the transition tower on the north side of Crystal Springs Dam, Segment 1, December 6, 2005.



**Figure 2** – Crane setting the top of the new Tower #73, Segment 2 Overhead, December 8, 2005.



**Figure 3** – Crews removing wire from old tower and transferring it to new Tower #71, Segment 2 Overhead, December 14, 2005.



**Figure 4** – Crews removing the old lattice #74 tower with a crane, Segment 2 Overhead, December 20, 2005.



**Figure 5** – New structures being worked on in the Jefferson Substation, December 6, 2005.



**Figure 6** – Excavating trench, removing floated conduit and cement slurry, Martin Substation, December 21, 2005.