



Aspen *Environmental Group*

PROJECT MEMORANDUM PG&E JEFFERSON-MARTIN 230 kV TRANSMISSION PROJECT

To: Billie Blanchard, CPUC
From: Vida Strong, Aspen Project Manager
Date: December 7, 2005
Subject: Monthly Report #4: November 1, 2005 – November 30, 2005
CPUC Environmental Monitor (EM): Jody Fessler

CPUC EM Jody Fessler was on site throughout the month of November 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 November. 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.

During the second week of November, nighttime cable splicing was conducted on November 6th, 8th, and 10th. During the third week of November, nighttime cable splicing was conducted Sunday (November 13th) through Thursday night (November 17th). During the fourth week of November, nighttime cable splicing was conducted on November 20th and 21st. At least one PG&E EI was on-site with the crews during nighttime work activities.

Trenching activities from Manhole #1 southeast into the Jefferson Substation continued throughout the month of November (Figure 1).

During the last week of November, the slide area between Manhole #5 and Manhole #6 on the east side of the road was repaired and restored.

B&V is now using the Caltrans Staging Yard on Hwy 92/Hwy 35 to store materials and equipment for cable installation 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 November 2005

Week	Manhole Installation	Conduit Installation (linear feet)	Stubout Installation	Proofing Conduit	Manhole Prep/Cable Pulling	Splicing Cable	Final Punch-List Work
Nov 1–5	Complete	Unknown	Complete	Complete	Manholes #18–#21	Manholes #1–#3, #16, #17	Complete
Nov 6–12	Complete	Unknown	Complete	Complete	Manholes #15, #20, # 21, #25–#27	Manholes #15–#19	Complete
Nov 13–19	Complete	Unknown	Complete	Complete	Manholes #20, #23–#25, #26	Manholes #15–#20	Complete
Nov 20–26	Complete	110	Complete	Complete	NA	Manholes #15, #20	Complete
Nov 27–30	Complete	Unknown	Complete	Complete			

NA – No Activity

Environmental Compliance Activities:

On the evening of November 9th, a California red-legged frog was discovered run over on Cañada Road. No work took place on Segment 1 the night of the discovery.

During the evenings of November 13th, 15th, and 17th, barn owls were observed by PG&E’s EI near the construction area on Segment 1.

On the evening of November 20th, a San Francisco dusky-footed woodrat was observed along Cañada Road running between Manholes #18 and #19.

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

During the second week of November, water from the manholes on Segment 1 was tested for pH levels on several occasions. All of the test results had a pH higher than 9, so the water was pumped into the baker tanks on Segment 4 and discharged into the City of South San Francisco’s sewer in accordance with their discharge permit.

On November 16th, the tree crew worked on either side of the Crystal Springs Dam trimming trees around the areas where the transition structures will be placed.

During the last week of November, biological exclusion fencing was installed at the dam crossing structure site.

One concern was issued by PG&E’s Environmental Inspectors along Segment 1 during the month of November. On November 1st, cold patch was noted to be loose around the trench plates near Manhole #1.

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 November. Underground crews worked along Skyline Boulevard and within the SFPUC Watershed conducting manhole preparation work and trenching activities from Manhole #38 to Pole #70A (Figure 2). A PG&E EI/Biological Monitor was on-site during all construction activities to inspect environmental compliance at the work site.

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 November 2005

Week	Manhole Installation	Conduit Installation (Linear Feet)	Stubout Installation	Proofing Conduit	Manhole Prep/Cable Pulling	Splicing Cable	Final Punch-List Work
Nov 1–5	Complete	50	NA	NA	Manholes #36, #37	NA	Yes
Nov 6–12	Complete	40	NA	NA	Manhole #33	NA	Yes
Nov 13–19	Complete	Complete	Complete	Manhole #38 to Tower #70A	Manholes #27–#31, #38	NA	Yes
Nov 20–26	Complete	Complete	Complete	Manhole #38 to Tower #70A	Manhole #38	NA	Yes
Nov 27–30	Complete	Complete	Complete	Complete	NA	NA	NA

NA – No Activity

Environmental Compliance Activities:

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

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

One concern was issued by PG&E’s Environmental Inspectors along Segment 2 Underground during November. On November 7th, the crew left the work site in the SFPUC Watershed at 5:10 p.m. (approximately 10 minutes prior to sunset) in order to unload a cement truck with cement slurry. This was beyond the 0.50-hour past sunset deadline specified in the USFWS Biological Opinion.

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 November. The road and fence crew, utility locators, drilling crew, and tree clearing crews worked Monday through Friday of each week, except the week of Thanksgiving (Figure 3). No work was done on Segment 2 Overhead during the week of November 20 through November 26 due to the Thanksgiving Holiday.

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

Week	Utility Locating	Gas Line Blister Installed	Snake Burrow Clearing	Tree Clearing	Biological Exclusion Fence Installation	Access Road Installation	Structure Pad Installed	Foundation Installed
Nov 1–5	Various locations along the segment	Areas to Towers #84, #86, #88	Near Towers #84 & #86	Around Towers #76–#78, #83	Complete	Towers #82A, #85, #86, #88	Around Towers #84–#86	Towers #79–#81, #81A
Nov 6–12	Various locations along the segment	NA	Near Towers #83–#85	Around Towers #78–#82A	Complete	Towers #85, #89, #90, #91, #92	NA	Towers #82A–#84, #89
Nov 13–19	NA	NA	Near Towers #82A–#85	Around Towers #82A, #85, #86, #91, #92, #93	Every 3 rd panel of the fence around the wetland on the lakeside was removed Nov 16 th .	Between Towers #89–#93 & north of #93	Around Towers #90–#93	Towers #85–#88, #90, #92
Nov 20–26	No Work	No Work	No Work	No Work	No Work	No Work	No Work	No Work
Nov 27–30	NA	NA	Near Towers #78, #84, #85	Between Towers #74–#76	NA	Complete	Complete	Towers #93 & #93A

NA – No Activity

Environmental Compliance Activities:

On November 2nd, a juvenile bald eagle was observed flying overhead along Segment 2 Overhead.

On November 8th, 9th, 14th, and 17th, San Francisco garter snakes were observed along Segment 2 Overhead.

On November 15th, a California red-legged frog was observed along Segment 2 Overhead.

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

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

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.

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

Date	PG&E/Opus		CPUC/Aspen		Description
	Concern	Non-Compl	PM	NCR	
Nov 8	X				A crew left the work site at 5:10 p.m. (approximately 10 minutes prior to sunset) in order to reconnect the drill rig hoses for safety reasons. This was beyond the 0.50-hour past sunset deadline specified in the USFWS Biological Opinion.
Nov 29	X				A crew left the work site at 5:40 p.m. (approximately 20 minutes past sunset) due to a late concrete delivery. This was also beyond the 0.50-hour past sunset deadline specified in the BO.

PM – Project Memorandum

NCR – Non-Compliance Report

SEGMENT 3

Table 4A presents the underground construction activities along Segment 3 during November. Crews worked Monday through Friday during the day on Glenview Drive, San Bruno Avenue, and Huntington Drive conducting trenching operations (see Figure 4). During the 1st, 2nd, 3rd, and 5th weeks of November, 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 November 2005

Week	Manhole Installation	Conduit Installation (linear feet)	Stubout Installation	Proofing Conduit	Manhole Prep/Cable Pulling	Splicing Cable
Nov 1–5	Complete	350	NA	NA	NA	NA
Nov 6–12	Complete	550	NA	NA	NA	NA
Nov 13–19	Complete	600	NA	NA	NA	NA
Nov 20–26	Complete	600	Manhole #43	NA	NA	NA
Nov 27–30	Complete	300	NA	NA	NA	NA

NA – No Activity

Environmental Compliance Activities:

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

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

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.

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

Date	PG&E/Opus		CPUC/Aspen		Description
	Concern	Non-Compl	PM	NCR	
Nov 3	X				A gasoline container was discovered spilling gasoline into the truck bed and onto the trench and trench plates. Upon discovery by the PG&E EI, the spill was properly contained and cleaned up.
Nov 27	X				Crews worked at night without prior notification to PG&E's EIs and worked without a monitor present.

PM – Project Memorandum

NCR – Non-Compliance Report

SEGMENT 4

Table 5A presents the underground construction activities along Segment 4 during November. Crews worked Monday through Friday along Segment 4. In the BART right-of-way, crews compacted soil and conducted restoration work. At the Colma BART Station, crews conducted trenching activities and did restoration work of the sidewalks and landscaped areas. Crews also conducted trenching activities at the intersection of Mission Street and Lawndale Road, and along Hillside Drive. Cable crews started working on the segment the 4th week of November, preparing manholes and pulling 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.

Table 5A – Segment 4 Construction Activities during November 2005

Week	Manhole Installation	Conduit Installation (linear feet)	Stubout Installation	Proofing Conduit	Manhole Prep/Cable Pulling	Splicing Cable
Nov 1–5	NA	1,010	Manhole #56	NA	NA	NA
Nov 6–12	Manhole #63	820	NA	Manholes #52–#53	NA	NA
Nov 13–19	Complete	750	NA	Manholes #54–#55	NA	NA
Nov 20–26	Complete	892	NA	Manholes #52–#53	Manholes #52, #53, #55	NA
Nov 27–30	Complete	Complete	NA	Manholes #50–#53, #62–#63	Manholes #49–#52, #55–#58	NA

NA – No Activity

Environmental Compliance Activities:

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

Table 5B presents a summary of the non-compliance activities along Segment 4 during November.

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.

Table 5B – Segment 4 Non-Compliance Activities during November 2005

Date	PG&E/Opus		CPUC/Aspen		Description
	Concern	Non-Compliance	PM	NCR	
Nov 1		X			Inadequate clean-up on the roadway in several locations on Hillside Avenue.
Nov 15	X				Water was discharged from Manholes #54 and #55 into the BART right-of-way without being tested and without notifying the PG&E EI.
Nov 30	X				Cable pulling crew tracked large amounts of mud onto public roadways, despite graveled roads and pads leading to the manholes.

PM – Project Memorandum

NCR – Non-Compliance Report

SEGMENT 5

Table 6A presents the underground construction activities along Segment 5 during November. 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 (Figure 5). Restoration of Bayshore Boulevard in the City of Brisbane also began this month. 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.

Construction crews continue to use their staging yard at the corner of North Access Road and South Airport Boulevard for the storage of equipment, materials, and two trailers that they are using for office space.

Table 6A – Segment 5 Construction Activities during November 2005

Week	Manhole Installation	Conduit Installation (linear feet)	Stubout Installation	Proofing Conduit	Manhole Prep/Cable Pulling	Splicing Cable
Nov 1–5	Manhole #76	810	NA	NA	NA	NA
Nov 6–12	Manhole #64	850	Manhole #76	NA	NA	NA
Nov 13–19	Manhole #65	500	Manholes #64 & #76	Manholes #73–#76	NA	NA
Nov 20–26	Complete	780	NA	NA	NA	NA
Nov 27–30	Complete	787	Manholes #65 & #76	NA	NA	NA

NA – No Activity

Environmental Compliance Activities:

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

Table 6B presents a summary of the non-compliance activities along Segment 5 during November.

Table 6B – Segment 5 Non-Compliance Activities during November 2005

Date	PG&E/Opus		CPUC/Aspen		Description
	Concern	Non-Compliance	PM	NCR	
Nov 16	X				An excavator, which was unloaded on Bayshore Blvd roadside shoulder, created large ruts and disturbance to the vegetation. The area will need to be restored prior to the contractor completing work.
Nov 17	X				Inadequate clean-up of Bayshore Boulevard.

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.

JEFFERSON SUBSTATION

During the month of November, crews continued to work at the Jefferson Substation Mondays through Fridays and some Saturdays. Trenching activities continued from Manhole #1 southeast into the substation (Figure 6). Crews also worked on the new expansion pad, grading and compacting the area, constructing a retaining wall, and working on foundations. Work within the existing substation also continued and included the installation of foundations, setting a transformer, setting vaults, installing footings, and the construction of a retention basin within the substation fence line. 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:

No concerns or non-compliances were issued by PG&E’s Environmental Inspectors for the Jefferson Substation during November.

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.

MARTIN SUBSTATION

During the month of November, crews continued to work at the Martin Substation Monday through Fridays. Work at the Martin Substation included trenching and conduit installation, foundation footings, grounding cable, and new structure work for the future substation components.

Environmental Compliance Activities:

No concerns or non-compliances were issued by PG&E’s Environmental Inspectors for Martin Substation during November.

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 November. With the exception of an NTP for the permanent Crystal Springs Dam crossing, no additional NTPs are anticipated.

TABLE 6
NOTICES TO PROCEED
(Updated 11-30-05)

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
#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 November (see Table 7).

TABLE 7
ENVIRONMENTAL COMPLIANCE STATUS
(Updated 11-30-05)

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 reviewing NCR
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 reviewing NCR
PM	10-27-05	Segment 4 - Inadequate clean-up on the roadway in several locations on Hillside Avenue.	PG&E reviewing PM

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 November

TABLE 8
VARIANCE REQUEST STATUS
(Updated 11-30-05)

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

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 working at Manhole #1 stubouts and trench on south side, Segment 1, November 1, 2005



Figure 2 – Crews working in SFPUC Watershed on Manhole #38, Segment 2 Underground, November 18, 2005.



Figure 3 – Crews pouring cement for foundation for Tower #93, Segment 2 Overhead, November 29, 2005



Figure 4 – Crews conducting trenching activities on San Bruno Avenue, Segment 3, November 15, 2005.



Figure 5 – Trenching activities on East Market in Daly City, Segment 5, November 21, 2005



Figure 6 – Trench into Jefferson Substation from Manhole #1, November 18, 2005