



5020 Chesebro Road, Suite 200, Agoura Hills, CA 91301-2285
Tel. 818-597-3407, Fax 818-597-8001, www.aspeneg.com

PROJECT MEMORANDUM

PG&E EMBARCADERO-POTRERO 230 kV TRANSMISSION PROJECT

To: Billie Blanchard, Project Manager, CPUC
From: Vida Strong, Aspen Project Manager
Date: September 24, 2015
Subject: Monitoring Report #53 – September 14 to September 20, 2015

This report provides a summary of the construction and compliance activities associated with the PG&E Embarcadero-Potrero (E-P) 230 kV Transmission Project.

A summary of the Notices to Proceed (NTPs) for construction and Minor Project Change (MPC) activities are provided in Tables 1 and 2, respectively (below).

CPUC Environmental Monitor (EM): Jody Fessler was on site September 14th.

CPUC NTPs

E-P Potrero Switchyard Site Preparation

NTP #1 was issued on August 21, 2014 for the site preparation of the Potrero Switchyard on 23rd Street adjacent to the existing Potrero Substation on the corner of 23rd Street and Illinois Street in San Francisco. NTP #1 included conditions that had to be satisfied prior to the start of construction.

Summary of Activity:

1. Site preparation activities have been completed and all work is now being conducted for the GIS building and cable tie-in work approved by the CPUC under NTP #5 (see below).

Environmental Compliance:

1. All environmental compliance monitoring will be reported below for the GIS building and cable tie-in work.

E-P Horizontal Directional Drill (HDD) Construction

NTP #2 was issued on August 28, 2014 for the HDD Construction on Spear Street, at the northern end of the project, and 23rd Street, at the southern end of the project, in San Francisco. Both HDDs would terminate within the San Francisco Bay and will be tied together in the future via a subsea cable. NTP #2 included conditions that had to be satisfied prior to the start of construction, as well as prior to the start of any work in the Bay.

Summary of Activity at the Northern Bore (Spear Street):

1. The HDD work is complete and HDD Company demobilized from the site during Week #26.

Summary of Activity at the Southern Bore (23rd Street):

1. The HDD work is complete and HDD Company demobilized from the site during Week #26.

E-P Underground Duct Bank Construction

NTP #3 was issued on October 9, 2014 for the underground duct bank and vault installation component of the Embarcadero-Potrero 230 kV Transmission Project between the horizontal directional drill (HDD) transition on Spear Street to the Embarcadero Substation on Folsom Street in the northern section, and between the HDD transition on 23rd Street to the Potrero Switchyard in the southern section, in the City of San Francisco. NTP #3 included conditions that had to be satisfied prior to the start of construction.

Summary of Activity for the Duct Bank North (Folsom St. and Spear St.):

Folsom Street, Duct Bank (day work)

1st Street and Fremont Street

1. Underground Construction Co. excavated duct bank trench between 1st Street and Fremont Street Monday through Saturday.
2. Underground Construction Co. installed shoring in the duct bank trench between 1st Street and Fremont Street Monday through Saturday and potholed for utilities Tuesday through Thursday, and Saturday.
3. Underground Construction Co. removed an I-beam and wood wall related to the Embarcadero Substation between 1st Street and Fremont Street on Thursday and Friday.

Fremont and Beale Streets

4. Underground Construction Co. potholed for utilities between Fremont and Beale Streets on Monday.
5. Underground Construction Co. installed shoring between Fremont and Beale Streets Tuesday through Saturday.
6. Underground Construction jackhammered and removed pavement between Fremont and Beale Streets on Thursday.
7. Underground Construction Co. excavated duct bank trench between Fremont and Beale Streets on Monday, Friday and Saturday.
8. Underground Construction Co. removed shoring between Fremont and Beale Streets on Friday.
9. Underground Construction Co. paved between Fremont and Beale Streets on Saturday.

Beale and Main Streets

10. Underground Construction Co. installed shoring between Beale and Main Streets Monday and Wednesday through Saturday.
11. Underground Construction Co. backfilled with concrete between Beale and Main Streets on Monday and Tuesday.
12. Underground Construction Co. excavated duct bank trench between Beale and Main Streets on Tuesday, Wednesday, and Saturday.
13. Underground Construction Co. potholed for utilities between Beale and Main Streets on Tuesday.
14. Underground Construction Co. removed shoring between Beale and Main Streets on Tuesday.
15. Underground Construction Co. paved between Beale and Main Streets on Thursday.
16. Underground Construction Co. cut and removed pipe between Beale and Main Streets on Friday.
17. Underground Construction Co. dewatered trench between Beale and Main Streets on Saturday.

Main and Spear Streets

18. Underground Construction Co. backfilled with concrete between Main and Spear Streets on Monday.
19. Underground Construction Co. removed shoring between Main and Spear Streets on Tuesday.
20. Underground Construction Co. paved between Main and Spear Streets on Thursday.
21. Underground Construction Co. conducted housekeeping Tuesday and Wednesday.
22. Clean Harbors hauled off excavated material Monday through Saturday.
23. At the time of the CPUC site visit on September 14th, a crew was excavating between 1st Street and Fremont Street (see Figure 1), a second crew was excavating between Fremont and Beale Streets (see Figure 2), a third crew was backfilling with concrete between Beale and Main Streets (see Figure 3), and a fourth crew was preparing to do more backfilling with concrete between Main and Spear Streets.
24. Street sweeping occurred Monday through Saturday.
25. No construction activities occurred on Sunday.

Spear Street, Duct Bank (between Folsom St and Harrison St)

1. Spear Street has been paved and temporary striping applied.

Spear Street, Vault

1. No work occurred at the vault during the week.

Environmental Compliance:

1. Cultural monitoring was conducted by Far Western Monday through Saturday. On September 16th, cultural constituents were observed and documented.
2. PG&E's Environmental Inspector conducted monitoring of the work area and activities on Monday through Saturday, including SWPPP inspections.
3. PG&E's Environmental Inspectors noted one compliance issue at this location: On September 15th, the PG&E Environmental Inspector observed a large hole in the filter fabric located under the drainage inlet on the southwest corner of the intersection of Folsom Street and Fremont Street. The PG&E Environmental Inspector informed the BVCI Inspector and the UCCO Foreman. UCCO replaced the torn filter fabric with new filter fabric.
4. The CPUC EM noted that the site was neat and clean, and that SWPPP measures were in place. All observed work activities were in compliance with the mitigation measures (MMs), Applicant Proposed Measures (APMs), and other permit requirements.

Summary of Activity for the Duct Bank South (23rd Street):

23rd Street, Duct Bank

1. Underground Construction Co. excavated the duct bank trench Monday through Wednesday, and Friday.
2. Underground Construction Co. installed conduit pipe on Monday.
3. Underground Construction Co. installed rebar and tied rebar in the duct bank trench on Monday.
4. Underground Construction Co. installed shoring Monday through Wednesday.
5. Underground Construction Co. backfilled with concrete on Monday and Tuesday.

6. Underground Construction Co. conducted housekeeping activities on Wednesday and Friday.
7. Clean Harbors hauled off excavated material for disposal Monday through Wednesday, and Friday.
8. Street sweeping was conducted Monday through Wednesday, and Friday.
9. At the time of the CPUC EM site visit on September 14th, crews had been excavating and pouring concrete throughout the day (see Figure 4).
10. No construction activities occurred on Thursday, Saturday or Sunday.

23rd Street, Vault

1. No work was conducted in the vault during the week.

Environmental Compliance:

1. Cultural monitoring was conducted by Far Western Monday through Wednesday, and Friday.
2. Air quality monitoring was conducted by ERM on Monday through Wednesday, and Friday.
3. PG&E's Environmental Inspector conducted monitoring of the work area and activities on Monday through Friday, including SWPPP inspections.
4. PG&E's Environmental Inspectors noted no compliance issues at this location.
5. The CPUC EM noted that the site was neat and clean, and that SWPPP measures were in place. All observed work activities were in compliance with the mitigation measures (MMs), Applicant Proposed Measures (APMs), and other permit requirements.

E-P Submarine Rock and Debris Removal

NTP #4 was issued on November 21, 2014 for the rock removal obstructing the path of the submarine cable component of the Embarcadero-Potrero 230 kV Transmission Project along the submarine cable line and off shore of Pier 50 in the San Francisco Bay. NTP #4 included conditions that had to be satisfied prior to the start of construction.

Summary of Activity:

1. All work activities related to NTP #4 have been completed.

Environmental Compliance:

1. No compliance monitoring was conducted.

E-P Potrero GIS Building and Cable Tie-in

NTP #5 was issued on March 27, 2015 for construction of the 230 kV Potrero gas-insulated switchgear (GIS) building and cable tie-in component of the Embarcadero-Potrero 230 kV Transmission Project at the Potrero Switchyard site, in the City San Francisco. NTP #5 included conditions that had to be satisfied prior to the start of construction.

Summary of Activity:

1. Overaa unloaded and staged delivered materials on Tuesday.
2. Overaa conducted dust control activities on Tuesday and Wednesday.
3. MEI removed struts on Tuesday.
4. MEI sealed holes in embed on Tuesday.

5. Office trailer use occurred Tuesday through Friday.
6. At the time of the CPUC EM site visit on September 14th, no work activities were taking place.
7. No work activities occurred Monday, Saturday or Sunday.

Environmental Compliance:

1. Air quality monitoring was conducted by ERM on Tuesday.
2. PG&E's Environmental Inspector conducted monitoring of this area Tuesday through Friday, including SWPPP inspections.
3. PG&E's Environmental Inspectors noted no compliance issues at this location:
4. The CPUC EM noted that the site was neat and clean, and that SWPPP measures were in place. All observed work activities were in compliance with the mitigation measures (MMs), Applicant Proposed Measures (APMs), and other permit requirements.

E-P Submarine Cable Installation

NTP #6 was issued on April 7, 2015 for the submarine cable installation component of the Embarcadero-Potrero 230 kV Transmission Project in the San Francisco Bay. NTP #6 included conditions that had to be satisfied prior to the start of construction.

Summary of Activity:

1. All work activities for the submarine cable installation were completed during Week #50.

Amador Staging and Laydown Yard

A Minor Project Change #1 was issued on July 23, 2014 for the use of the Amador Staging and Laydown Yard on Amador Street, San Francisco. The Minor Project Change #1 included conditions that had to be satisfied prior to the staging of equipment and materials at the yard.

Summary of Activity:

1. Office trailer use occurred Monday through Saturday at the yard.
2. Tailboard meetings occurred at the yard Monday through Saturday.
3. Equipment and materials were stored at the yard throughout the week.
4. No work occurred at the yard on Sunday.

Environmental Compliance:

1. PG&E's Environmental Inspector conducted monitoring of the work area and activities Monday through Saturday, including SWPPP inspections.
2. PG&E's Environmental Inspectors noted one compliance issue at this location: September 16th – 18th, the PG&E Environmental Inspector observed that the secondary containment around the cut-back was in need of housekeeping. The fiber roll around the pile was not fully functional and cut back was spilling out of it onto the ground. The PG&E Environmental Inspector informed the BVCI Inspector and UCCO Foreman, and recommended the secondary containment materials be fixed so it is fully functioning, and the cut-back be cleaned up on the ground. On September 18th the issue was rectified; the secondary containment materials were replaced and the cut back was cleaned up off the ground.

Notices to Proceed

Table 1 summarizes the Notices to Proceed (NTP) for the Embarcadero-Potrero Project.

Table 1
Notice to Proceeds (NTPs)
 (Updated 09/25/15)

NTP #	Date Requested	Date Issued	Phase	Description
NTP #1	6/23/14	8/21/14	Potrero Site Preparation	Site preparation and excavation of the 230 kV Potrero Switchyard site on 23 rd St., SF.
NTP #2	7/31/14	8/28/14	HDD	Horizontal directional drilling on Spear St. and 23 rd St. connecting to the SF Bay.
NTP #3	9/18/14	10/09/14	Underground Duct Bank and Vaults	Underground duct bank and vault installation between the HDD transition on Spear St. to the Embarcadero Substation on Folsom St. in the northern section, and between the HDD transition on 23 rd St. to the Potrero Switchyard in the southern section, SF.
NTP #3 MOD	11/13/14	11/14/14	Underground Duct Bank and Vaults	Trench from the new Potrero Switchyard to the existing switchyard for the 230 kV/115 kV connections across the Trans Bay Cable.
NTP #4	11/19/14	11/21/14	Subsea Cable	Rock and debris removal along subsea cable route.
NTP #5	2/19/15	3/27/15	Potrero GIS Switchgear Building	Construction of 230 kV Potrero gas-insulated switchgear (GIS) building and cable tie-in component at Potrero Switchyard.

Minor Project Changes

Table 2 summarizes the Minor Project Changes submitted for the Embarcadero-Potrero Project.

Table 2
Minor Project Changes (MPCs)
 (Updated 09/25/15)

MPC #	Date Requested	Date Issued	Phase	Description
MPC #1	7/16/14	7/23/14	Amador Staging and Laydown Yard	Use of an existing staging and laydown yard adjacent to Alternate Staging Area #3 (as identified in the IS/MND) on Amador St., SF.
MPC #2	12/31/14	1/5/15	Staging and Laydown Yard	Use of an existing paved staging and laydown yard at 1215 Michigan Street, SF, two blocks from the Potrero Switchyard.

PROJECT PHOTOS



Figure 1 – Excavating duct bank trench on Folsom Street between 1st Street and Fremont Street. View south, September 14, 2015.



Figure 2 – Excavating on Folsom Street between Fremont and Beale Streets. View south, September 14, 2015.



Figure 3 – Pouring concrete on Folsom Street between Beale and Main Streets.
View south, September 14, 2015.



Figure 4 – Excavated and poured concrete on 23rd
Street. View east, September 14, 2015.