



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 18, 2015  
**Subject:** Monitoring Report #52 – September 7 to September 13, 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 8<sup>th</sup>.

## **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 23<sup>rd</sup> Street adjacent to the existing Potrero Substation on the corner of 23<sup>rd</sup> 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 23<sup>rd</sup> 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 (23<sup>rd</sup> 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 23<sup>rd</sup> 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)**

##### **1<sup>st</sup> Street and Fremont Street**

1. Underground Construction Co. saw cut, broke up, and removed pavement between 1<sup>st</sup> Street and Fremont Street Tuesday through Friday.
2. Underground Construction Co. excavated the duct bank trench between 1<sup>st</sup> Street and Fremont Street Tuesday, Wednesday, Friday and Saturday and potholed for utilities Friday and Saturday.
3. Underground Construction Co. installed shoring between 1<sup>st</sup> Street and Fremont Street Tuesday through Saturday.

##### **Fremont and Beale Streets**

4. Underground Construction Co. backfilled with concrete between Fremont and Beale Streets Tuesday through Saturday.
5. Underground Construction Co. broke and removed pavement between Fremont and Beale Streets Tuesday through Thursday, and excavated Thursday through Saturday.
6. Underground Construction installed shoring between Fremont and Beale Streets on Thursday and removed shoring on Thursday and Saturday.
7. Underground Construction Co. potholed for utilities between Fremont and Beale Streets on Friday.

##### **Beale and Main Streets**

8. Underground Construction Co. excavated duct bank trench between Beale and Main Streets Tuesday through Thursday, and Saturday.
9. Underground Construction Co. installed shoring between Beale and Main Streets Tuesday through Thursday and removed shoring on Wednesday.
10. Underground Construction Co. broke and removed pavement between Beale and Main Streets on Wednesday.
11. Underground Construction Co. backfilled with concrete between Beale and Main Streets on Thursday and Saturday.
12. Underground Construction Co. installed rebar between Beale and Main Streets on Friday and Saturday, and tied rebar on Saturday.
13. Underground Construction Co. installed conduit pipe between Beale and Main Streets on Saturday.

##### **Main and Spear Streets**

14. Underground Construction Co. installed and tied rebar between Main and Spear Streets on Saturday.
15. Underground Construction Co. installed conduit pipe between Main and Spear Streets on Saturday.
16. Underground Construction Co. backfilled with concrete between Main and Spear Streets on Saturday.

17. Underground Construction Co. conducted housekeeping Tuesday through Saturday.
18. Clean Harbors hauled off excavated material Tuesday through Saturday.
19. At the time of the CPUC site visit on September 8<sup>th</sup>, a crew was working between 1<sup>st</sup> Street and Fremont Street saw-cutting pavement and excavating trench (see Figure 1), another crew was getting ready to pour concrete between Fremont and Beale Streets (see Figure 2), and another crew was excavating trench between Beale and Main Streets (see Figure 3).
20. Street sweeping occurred Tuesday through Saturday.
21. No construction activities occurred on Monday or 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 Tuesday through Saturday. September 9<sup>th</sup> through 12<sup>th</sup>, cultural constituents were observed, documented, and some collected.
2. PG&E's Environmental Inspector conducted monitoring of the work area and activities on Tuesday through Saturday, including SWPPP inspections.
3. PG&E's Environmental Inspectors noted no compliance issue 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.

**Summary of Activity for the Duct Bank South (23<sup>rd</sup> Street):**

**23<sup>rd</sup> Street, Duct Bank**

1. Underground Construction Co. excavated the duct bank trench Tuesday through Thursday.
2. Underground Construction Co. installed conduit pipe Tuesday and Friday.
3. Underground Construction Co. tied rebar in the duct bank trench on Tuesday and installed rebar on Friday.
4. Underground Construction Co. installed shoring on Thursday.
5. Clean Harbors hauled off excavated material for disposal Tuesday through Thursday.
6. Street sweeping was conducted Monday, and Tuesday through Friday.
7. At the time of the CPUC EM site visit on September 8<sup>th</sup>, crews were hand digging in trench around utilities (see Figure 4).
8. No construction activities occurred on Monday, Saturday or Sunday.

**23<sup>rd</sup> Street, Vault**

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

**Environmental Compliance:**

1. Cultural monitoring was conducted by Far Western Tuesday through Thursday. On September 9<sup>th</sup> and 10<sup>th</sup>, cultural constituents were observed and documented.
2. Air quality monitoring was conducted by ERM on Monday, and Tuesday through Friday.
3. PG&E's Environmental Inspector conducted monitoring of the work area and activities on Tuesday through Saturday, 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 conducted dust control activities Wednesday through Friday.
2. Overaa removed materials staged at the site for use at the Embarcadero Substation Wednesday through Friday.
3. Office trailer use occurred Wednesday through Friday.
4. At the time of the CPUC EM site visit on September 8<sup>th</sup>, no work activities were taking place.
5. No work activities occurred Monday, Tuesday, Saturday or Sunday.

**Environmental Compliance:**

1. PG&E's Environmental Inspector conducted monitoring of this area Wednesday through Friday, including SWPPP inspections.
2. PG&E's Environmental Inspectors noted no compliance issues at this location:
3. 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 Tuesday through Saturday at the yard.
2. Tailboard meetings occurred at the yard Tuesday through Saturday.
3. Equipment and materials were stored at the yard throughout the week.
4. At the time of the site visit on September 8<sup>th</sup>, equipment and materials were being stored at the yard and the office trailers were in use.
5. No work occurred at the yard on Monday or Sunday.

### **Environmental Compliance:**

1. PG&E's Environmental Inspector conducted monitoring of the work area and activities Tuesday through Saturday, including SWPPP inspections.
2. PG&E's Environmental Inspectors noted two compliance issues at this location.
  - On September 8<sup>th</sup>, airborne dust was observed due to heavy vehicle use after the morning tailboards at the yard. The ground was dry and there was no evidence of watering. Additional watering throughout the day was recommended, especially before vehicles mobilize after morning tailboards. Additional watering was observed throughout the week.
  - September 8<sup>th</sup> through 11<sup>th</sup>, old metal rebar and pipe was piled in the southwest corner of the yard on the ground. It is assumed the materials came from the removal of Station A related features at the Duct Bank South. The SF Port Lease does not permit storage of construction waste. On September 11<sup>th</sup>, all the rebar and pipe had been removed.
3. The CPUC EM noted that the site was dusty, even though there was evidence of watering, and informed the PG&E Environmental Inspector who had already informed the contractors. Other than 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.

## Notices to Proceed

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

**Table 1**  
**Notice to Proceeds (NTPs)**  
 (Updated 09/18/15)

<b>NTP #</b>	<b>Date Requested</b>	<b>Date Issued</b>	<b>Phase</b>	<b>Description</b>
NTP #1	6/23/14	8/21/14	Potrero Site Preparation	Site preparation and excavation of the 230 kV Potrero Switchyard site on 23 <sup>rd</sup> St., SF.
NTP #2	7/31/14	8/28/14	HDD	Horizontal directional drilling on Spear St. and 23 <sup>rd</sup> 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 <sup>rd</sup> 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 230kV/115kV 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 09/18/15)

<b>MPC #</b>	<b>Date Requested</b>	<b>Date Issued</b>	<b>Phase</b>	<b>Description</b>
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 1<sup>st</sup> Street and Fremont Street. View northwest, September 8, 2015.

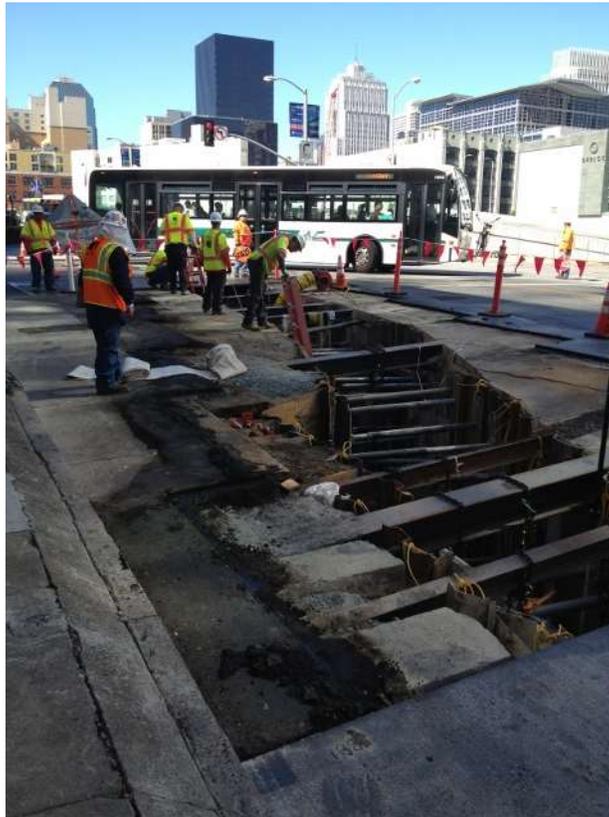


Figure 2 – Preparing to pour concrete on Folsom Street between Fremont and Beale Streets. View southwest, September 8, 2015.

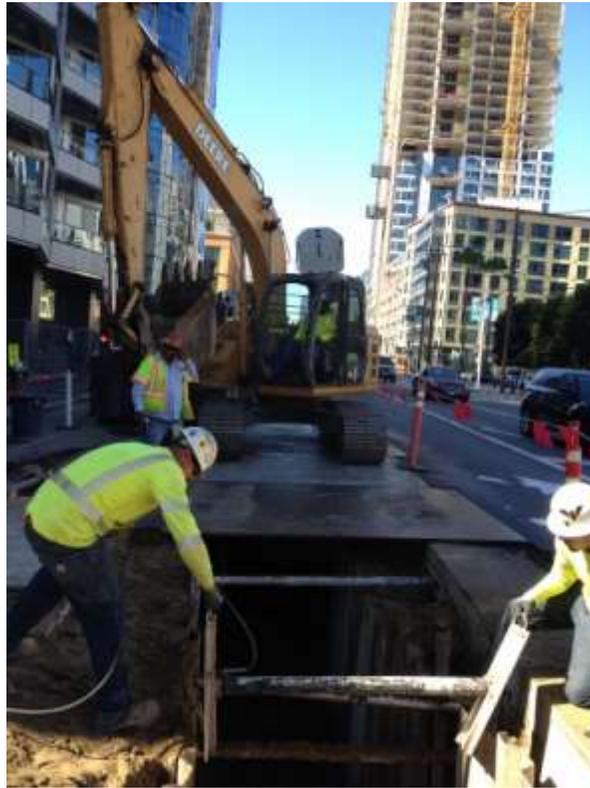


Figure 3 – Excavating duct bank trench on Folsom Street between Beale and Main Streets. View south, September 8, 2015.



Figure 4 – Hand digging around utilities on 23<sup>rd</sup> Street. View east, September 8, 2015.