



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:** October 21, 2015  
**Subject:** Monitoring Report #57 – October 12 to October 18, 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 October 15<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. excavated using a Vac-truck Monday through Friday.
2. Underground Construction Co. installed shoring Monday through Friday.
3. Underground Construction Co. installed fabric and base rock on Friday.
4. Underground Construction Co. installed conduit pipe in the duct bank trench on Saturday and Sunday.
5. Clean Harbors hauled off excavated material for disposal Monday through Saturday.
6. At the time of the CPUC EM site visit on October 15<sup>th</sup>, two crews were excavating using a Vac-truck in front of the Embarcadero Substation (see Figure 1).

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

7. Underground Construction Co. fused sewer pipe on Friday.

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

8. Underground Construction Co. excavated trench on Monday and Tuesday, and Thursday through Saturday.
9. Underground Construction Co. removed shoring from the trench on Tuesday.
10. Underground Construction Co. backfilled the trench with concrete on Tuesday.
11. Underground Construction Co. installed shoring in the trench Wednesday through Friday.
12. Underground Construction Co. conducted street sweeping Monday through Sunday.
13. Clean Harbors hauled off excavated material for disposal Monday through Saturday.
14. At the time of the CPUC EM site visit on October 15<sup>th</sup>, crews were excavating the trench and installing shoring (see Figure 2).

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

15. Underground Construction Co. saw cut pavement on Wednesday.

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

1. Spear Street has been paved and temporary striping applied.
2. No work activities occurred on Spear Street during the week.

#### **Spear Street, Vault**

1. No work activities occurred at the vault on Spear Street during the week.

**Environmental Compliance:**

1. Cultural monitoring was conducted by Far Western Monday through Saturday. Cultural constituents were observed, documented and some collected October 12<sup>th</sup> through 16<sup>th</sup>.
2. PG&E's Environmental Inspector conducted monitoring of the work area and activities on Monday 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.

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

1. Underground Construction Co. conducted dust suppression Monday through Friday.
2. Underground Construction Co. excavated in previously excavated fill on Monday.
3. Underground Construction Co. installed shoring in the trench on Tuesday.
4. Underground Construction Co. removed sections of an abandoned gas main on Wednesday and Thursday.
5. Underground Construction Co. backfilled the bottom of the trench with rock on Wednesday and Thursday.
6. Underground Construction Co. fused conduit pipe on Thursday and Friday.
7. Underground Construction Co. installed conduit pipe in trench on Friday.
8. Street sweeping was conducted Monday through Friday.
9. Clean Harbors/PSC managed spoils in roll-off bins Monday through Friday.
10. At the time of the CPUC EM site visit on October 15<sup>th</sup>, a crew had removed a section of the abandoned gas line and were backfilling the bottom of the trench with rock (see Figure 3).
11. No construction activities occurred on 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 Monday through Friday. Cultural constituents were observed, documented, and some collected on October 12<sup>th</sup>.
2. Air quality monitoring was conducted by ERM on Monday through Friday.
3. PG&E's Environmental Inspector conducted monitoring of the work area and activities Monday through Friday, including SWPPP inspections.
4. PG&E's Environmental Inspectors noted one ongoing compliance issue at this location: From October 5<sup>th</sup> to date, sediment spills were noted from Clean Harbors' roll-off bins as they are loaded for off-haul. The sediment is from a Badger vacuum truck excavating on Folsom Street at Duct Bank North. Spills are being cleaned up as they occur.

5. The CPUC EM noted where the spoils had spilled from the roll-off bin staged on 23<sup>rd</sup> Street. Other than that, 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. Office trailer use occurred Monday through Sunday.
2. Overaa conducted housekeeping and dust control activities Thursday and Friday.
3. Proven and Alavera installed a French drain system around the GIS foundation perimeter on Thursday and Friday.
4. Contra Costa and APEC conducted installation of a 'shoo-fly' in the nearby Potrero Substation Thursday through Sunday.
5. At the time of the CPUC EM site visit on October 15<sup>th</sup>, crews were installing a French drain around the GIS building foundation (see Figure 4) and another crew was working on the 'shoo-fly' in the adjacent substation.

#### **Environmental Compliance:**

1. Air quality monitoring was conducted by ERM when equipment was in use on Thursday and Friday.
2. PG&E's Environmental Inspector conducted monitoring of this area Monday 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 Sunday at the yard.
2. Tailboard meetings occurred at the yard Monday through Sunday.
3. Equipment and materials were stored at the yard throughout the week.
4. Underground Construction Co. conducted dust control activities Monday through Sunday.
5. At the time of the CPUC EM site visit on October 15<sup>th</sup>, the office trailers were in use and equipment and materials were being stored at the yard.

**Environmental Compliance:**

1. PG&E’s Environmental Inspector conducted monitoring of the work area and activities Monday 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.

**Notices to Proceed**

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

**Table 1**  
**Notice to Proceeds (NTPs)**  
 (Updated 10/21/15)

<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 230 kV/115 kV connections across the Trans Bay Cable.

<b>NTP #</b>	<b>Date Requested</b>	<b>Date Issued</b>	<b>Phase</b>	<b>Description</b>
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 10/21/15)

<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 the duct bank trench with a Vac-truck on Folsom Street just outside the new Embarcadero Substation addition. View southwest, October 15, 2015.



Figure 2 – Excavating trench and installing shoring on Folsom Street at Main Street. View north, October 15, 2015.



Figure 3 – Trench work on 23<sup>rd</sup> Street. View west, October 15, 2015.



Figure 4 – Crews installing drains around the GIS building foundation at the Potrero Switchyard. View southeast, October 15, 2015.