



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:** December 9, 2015  
**Subject:** Monitoring Report #63 – November 23 to November 29, 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 November 24<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.):**

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

1. Underground Construction Co. removed BMPs at drainage inlets on Monday.
2. Underground Construction Co. conducted street sweeping on Monday.
3. At the time of the CPUC EM site visit on November 24<sup>th</sup>, no work was being conducted at this location.
4. No work activities occurred Tuesday through Sunday.

#### Fremont and Beale Streets

5. Underground Construction Co. removed BMPs at drainage inlets on Monday.
6. Underground Construction Co. conducted street sweeping on Monday.
7. At the time of the CPUC site visit on November 24<sup>th</sup>, no work was being conducted at this location, but the street had been repaved and sidewalk restored (see Figure 1).
8. No work activities occurred Tuesday through Sunday.

#### Beale and Main Streets

9. Underground Construction Co. removed BMPs at drainage inlets on Monday.
10. Underground Construction Co. conducted street sweeping on Monday.
11. At the time of the CPUC EM site visit on November 24<sup>th</sup>, no work was being conducted at this location, but the street had been repaved (see Figure 2).
12. No work activities occurred Tuesday through Sunday.

#### Main and Spear Streets

13. Underground Construction Co. removed BMPs at drainage inlets on Monday.
14. Underground Construction Co. conducted street sweeping on Monday.
15. At the time of the CPUC EM site visit on November 24<sup>th</sup>, no work was being conducted at this location.
16. No work activities occurred Tuesday through Sunday.

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

1. Spear Street has been paved and temporary striping applied.
2. Sumitomo adjusted the wire location in the transition vault on Tuesday.
3. Underground Construction Co. primed the transition vault on Tuesday.
4. At the time of the CPUC EM site visit on November 24<sup>th</sup>, work was being conducted within the transition vault on Spear Street (see Figure 3).
5. No work activities occurred on Monday, or Wednesday through Sunday.

**Environmental Compliance:**

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

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

23<sup>rd</sup> Street, Duct Bank and Vault

1. Underground Construction Co. painted inside the transition vault on Monday and Tuesday.
2. Underground Construction Co. painted the inside of the transition vault on Tuesday.
3. Clean Harbors removed roll off bins for sediment disposal on Monday and Tuesday.
4. Clean Harbors mixed cement and clay-based absorbent in roll off bins with wet sediment on Monday.
5. Clean Harbors staged empty roll off bins on Tuesday.
6. At the time of the CPUC EM site visit on November 24<sup>th</sup>, crews were working within the transition vault (see Figure 4).
7. No work activities occurred Wednesday through Sunday.

**Environmental Compliance:**

1. PG&E’s Environmental Inspector conducted monitoring of the work area and activities Monday through Wednesday, 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 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 Wednesday.
2. Overaa conducted housekeeping and dust control activities Monday through Wednesday.
3. Overaa aided other work crews Monday through Wednesday.
4. B.T. Mancini laid out steel decking in the GIS building on Monday.
5. National installed temporary fencing on Tuesday.
6. Metal Set welded and installed steel beams in the GIS building on Monday.
7. Sheedy crane delivered steel into the GIS building on Monday.
8. Contra Costa Electric conducted electrical wiring on trailers on Monday.
9. APEC set forms for the creation of the reactor pad in the switchyard on Monday and Wednesday.
10. APEC laid base rock for the new reactor pad in the switchyard on Monday.
11. APEC excavated for the transformer pad in the switchyard on Tuesday.
12. APEC poured concrete for the transformer pad in the switchyard on Tuesday.
13. APEC excavated and augured footings in the adjacent substation on Monday and Tuesday.
14. APEC build wood forms in the adjacent substation Monday through Wednesday.
15. APEC conducted demo of foundations in the adjacent substations on Tuesday and Wednesday.
16. APEC conducted housekeeping and installed BMPs on Wednesday.
17. Clean Harbors delivered and staged new roll off bins on Tuesday.
18. Clean Harbors removed full roll off bins for sediment disposal on Tuesday.
19. At the time of the CPUC EM site visit on November 24<sup>th</sup>, crews were working on the reactor pad and transformer pad in the switchyard (see Figure 5), within the GIS building, and conducting foundation work in the adjacent substation.
20. No work activities occurred Thursday through Sunday.

**Environmental Compliance:**

1. Cultural monitoring was conducted by Far Western Monday through Wednesday and cultural constituents were observed, documented, and some collected November 23<sup>rd</sup> through 25<sup>th</sup>.
2. Air quality monitoring was conducted by ERM Monday through Wednesday.
3. PG&E's Environmental Inspector conducted monitoring of this area Monday through Wednesday, including SWPPP inspections.
4. PG&E's Environmental Inspectors noted two compliance issues at this location:
  - On the morning of November 23<sup>rd</sup>, two white sand bags were torn on 23<sup>rd</sup> Street just south of the Potrero Switchyard, and sand was exposed at one of the drainage inlets. Later that day, Overaa followed the removal/disposal and replacement recommendations rectifying the concern.

- On November 24<sup>th</sup>, trash and litter were not contained in closed trash containers. On November 25<sup>th</sup>, the bags and bottles were removed and put in closed containers rectifying the issue.
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 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 on Monday at the yard.
2. Tailboard meetings occurred at the yard Monday through Wednesday.
3. Underground Construction Co. conducted dust control activities Monday through Wednesday.
4. Underground Construction Co. removed equipment and materials Monday through Wednesday.
5. At the time of the CPUC EM site visit on November 24<sup>th</sup>, crews were cleaning up the yard and removing equipment and materials.
6. No work activities occurred at the yard Thursday through Sunday.

### **Environmental Compliance:**

1. PG&E's Environmental Inspector conducted monitoring of the work area and activities Monday through Wednesday, 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 12/09/15)

<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.
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 12/09/15)

<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 – Folsom Street repaved and sidewalk restored between Fremont and Beale Streets. View south, November 24, 2015.



Figure 2 – Folsom Street repaved at Main Street. View south, November 24, 2015.





Figure 3 – Crew working in vault on Spear Street. View north, November 24, 2015.



Figure 4 – Crew working in vault on 23<sup>rd</sup> Street. View north, November 24, 2015.





Figure 5 – Potrero Switchyard work. View southeast, November 24, 2015.