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**PROJECT MEMORANDUM**

**PG&E EMBARCADERO-POTRERO 230 kV TRANSMISSION PROJECT**

**To:** Billie Blanchard, Project Manager, CPUC  
**From:** Vida Strong, Aspen Project Manager  
**Date:** October 8, 2015  
**Subject:** Monitoring Report #55 – September 28 to October 4, 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 1<sup>st</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. jackhammered and removed pavement Monday through Thursday, and saw cut and removed pavement on Friday.
2. Underground Construction Co. excavated using a Vac-truck Monday through Saturday.
3. Underground Construction Co. installed shoring Tuesday through Thursday, and removed shoring on Friday.
4. Underground Construction Co. backfilled with concrete on Friday.
5. Underground Construction Co. conducted street sweeping Monday through Saturday.
6. Clean Harbors hauled off excavated material for disposal Monday through Saturday.
7. At the time of the CPUC EM site visit on October 1<sup>st</sup>, Underground Construction Co. was excavating the trench with a Vac-truck (see Figure 1).

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

8. Underground Construction Co. installed shoring on Monday, and removed shoring on Wednesday, Thursday and Saturday.
9. Underground Construction Co. backfilled with concrete on Monday, Wednesday, Thursday and Saturday.
10. Underground Construction Co. installed and tied rebar Monday through Wednesday.
11. Underground Construction Co. installed conduit pipe Monday through Wednesday.
12. Underground Construction Co. excavated the duct bank trench on Monday.
13. Underground Construction Co. installed pipe to reconnect a storm drain on Thursday.
14. Underground Construction Co. conducted street sweeping Monday through Saturday.
15. Clean Harbors hauled off excavated material for disposal Monday through Saturday.
16. At the time of the CPUC EM site visit on October 1<sup>st</sup>, a crew was removing shoring and backfilling the duct bank trench with concrete between Fremont and Beale Streets (see Figure 2).

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

17. Underground Construction Co. installed and tied rebar Monday and Tuesday.
18. Underground Construction Co. installed conduit pipe Monday and Tuesday.
19. Underground Construction Co. excavated duct bank trench on Tuesday, Thursday and Friday.
20. Underground Construction Co. backfilled the duct bank trench with concrete on Tuesday, Wednesday and Saturday.

21. Underground Construction Co. potholed for utilities on Wednesday.
22. Underground Construction Co. saw cut pavement on Wednesday.
23. Underground Construction Co. installed shoring on Wednesday and Friday, and removed shoring on Thursday and Saturday.
24. Underground Construction Co. installed a storm drain on Thursday and Friday.
25. Underground Construction Co. conducted street sweeping Monday through Saturday.
26. Clean Harbors hauled off excavated material for disposal Monday through Saturday.
27. PSC dewatered excavation Monday through Friday.
28. At the time of the CPUC EM site visit on October 1<sup>st</sup>, a crew was potholing for utilities at Main Street (see Figure 3).

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

29. No construction activities occurred between Main and Spear Streets during the week.

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

1. Spear Street has been paved and temporary striping applied.
2. No construction activities occurred between Folsom and Harrison Streets during the week.

#### **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. Cultural constituents were observed, documented and some collected September 29<sup>th</sup> through October 3<sup>rd</sup>.
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 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. installed and tied rebar on Monday.
2. Underground Construction Co. backfilled the duct bank trench with concrete on Monday and Tuesday.
3. Underground Construction Co. removed shoring on Tuesday.
4. Underground Construction Co. conducted housekeeping Tuesday through Thursday.
5. Underground Construction Co. saw cut pavement on Wednesday and Friday.
6. Underground Construction Co. removed cut pavement on Thursday.
7. Underground Construction Co. conducted paving on Thursday.

8. Underground Construction Co. installed mule tape in the duct bank conduit from the transition vault on Friday.
9. PSC dewatered roll off bins on Friday.
10. Street sweeping was conducted Monday through Friday.
11. At the time of the CPUC EM site visit on October 1<sup>st</sup>, no work was being conducted. Crews had saw cut pavement earlier in the morning.
12. 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 on Thursday. Cultural constituents were observed, documented, and some collected on October 1<sup>st</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 on Monday through Friday, including SWPPP inspections.
4. PG&E's Environmental Inspectors noted one compliance issue at this location: On September 30<sup>th</sup>, approximately 2-3 gallons of thick muddy water was observed on the ground near a Clean Harbors roll-of bin. The contained sediment was from a Badger vacuum truck excavating on Folsom Street at Duct Bank North. On October 1<sup>st</sup>, the issue was rectified; the mud was cleaned up from the pavement.
5. The CPUC EM noted where the spoils had spilled from the roll off bin staged on 23<sup>rd</sup> Street (see Figure 4). 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. Overaa conducted dust control activities on Wednesday.
2. MEI unloaded and staged delivered materials on pavement on Wednesday.
3. PSC delivered water for filtration and disposal on Friday.
4. Office trailer use occurred Tuesday through Friday.
5. At the time of the CPUC EM site visit on October 1<sup>st</sup>, no work activities were taking place.
6. No work activities occurred on Monday, Saturday or Sunday.

**Environmental Compliance:**

1. PG&E's Environmental Inspector conducted monitoring of this area Tuesday through Friday, including SWPPP inspections.
2. PG&E's Environmental Inspectors noted a couple of compliance issues at this location: On September 29<sup>th</sup>, the lid on one of the hazardous waste disposal drums was open. No work was being conducted onsite and therefore the drum was not in use. The PG&E Environmental Inspector recommended replacing the tarp covering the drums prior to the rainy season since it is damaged and has a hole. On September 30<sup>th</sup>, the issues were rectified. Overaa closed the lid of the opened drum, and the tarp covering the drums was replaced.
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 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 no compliance issues at this location.

## Notices to Proceed

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

**Table 1**  
**Notice to Proceeds (NTPs)**  
(Updated 10/08/15)

<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 10/08/15)

<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 Lay-down 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 between 1<sup>st</sup> Street and Fremont Street. View southwest, October 1, 2015.



Figure 2 – Removing shoring from trench on Folsom Street between Fremont and Beale Streets. View south, October 1, 2015.



Figure 3 – Potholing for utilities on Folsom Street at Main Streets View southwest, October 1, 2015.



Figure 4 – Dried spoils spill from roll off bin on 23<sup>rd</sup> Street. View north, October 1, 2015.