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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:** February 10, 2015  
**Subject:** Monitoring Report #21 – February 2, 2015 to February 8, 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 February 2<sup>nd</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. Farrell conducted soil drill displacement column installation and drilled piers Monday through Wednesday.
2. Overaa conducted dust control and housekeeping activities Monday through Thursday.
3. A1 Fence jackhammered sidewalk pavement and hand excavated fence post holes in the sidewalk at 23<sup>rd</sup> Street Tuesday through Thursday. Fence posts were installed in the sidewalk on Wednesday and Thursday.
4. Street sweeping occurred Monday through Thursday.
5. No construction activities occurred Friday through Sunday.

#### Environmental Compliance:

1. Air quality monitoring was conducted Monday through Thursday.
2. Cultural monitoring was conducted on Monday through Thursday.
3. PG&E's Environmental Inspector conducted monitoring of this area Monday through Thursday, including SWPPP inspections.
4. PG&E's Environmental Inspectors noted no compliance issues at this location.

### 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. HDD Company moved equipment and materials from Bore 2 to Bore 1 on Monday and Tuesday.
2. HDD Company augured soil from casing at Bore 1 on Monday and Tuesday.
3. HDD Company conducted housekeeping activities on Monday.
4. HDD Company prepared for drilling at Bore 1 on Tuesday and conducted drilling Wednesday through Sunday (see Figure 1).
5. HDD Company hauled off drilling solids on Sunday.
6. Traffic controls have been established at the corner of Spear Street and Harrison Street by Bay Area Traffic Solutions (BATS). Limited access is provided to Spear Street (a dead end street) including deliveries and people with parking garage permits, as well as construction personnel.
7. An 8-foot-tall chain link fence with sound blankets are in place around the HDD equipment and work area.
8. Street sweeping occurred Monday through Sunday.
9. At the time of the CPUC EM site visit on Monday, February 2<sup>nd</sup>, HDD Company was auguring soil from the Bore 1 casing.

### **Environmental Compliance:**

1. Cultural monitoring was conducted on Monday through Wednesday. On February 2<sup>nd</sup> and 3<sup>rd</sup>, potential cultural constituents were observed and documented, but not collected.
2. PG&E's Environmental Inspector conducted monitoring of the work area and activities Monday through Sunday, including SWPPP inspections and checking the drill path in the Bay for signs of drilling fluid release.
3. PG&E's Environmental Inspector noted one ongoing occurrence at HDD North. An ongoing occurrence since January 23<sup>rd</sup> is one of HDD Company's 2-ton trucks that has been noted as having a small leak (License plate 5W86441). The truck has been observed parked over secondary containment. The PG&E Environmental Inspectors have recommended the truck be serviced to fix the leak or be removed from the project.
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 at the Southern Bore (23<sup>rd</sup> Street):**

1. All three of the Southern Bores have been completed.

### **Environmental Compliance:**

1. No compliance monitoring was conducted during the subject week.

## **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. Underground Construction Co. conducted duct bank excavation and hauled off excavated material from duct bank on Folsom Street on Monday and Tuesday (see Figure 2). Base rock was installed in duct bank trench on Monday.
2. Underground Construction Co. installed shoring in duct bank trench on Folsom Street Wednesday through Friday.
3. Underground Construction Co. installed well monitoring systems and installed rebar in the duct bank trench on Folsom Street Monday through Friday. Concrete was poured in duct bank trench on Friday.
4. Underground Construction Co. conducted potholing on Folsom Street on Thursday.
5. Underground Construction Co. installed filter fabric at drainage inlets and saw-cut pavement for vault installation on Spear Street on Monday.
6. Underground Construction Co. jackhammered and removed pavement for vault installation on Spear Street on Tuesday.
7. Underground Construction Co. excavated for vault installation on Spear Street Tuesday through Thursday.
8. Street sweeping occurred Monday through Friday.
9. At the time of the CPUC EM site visit on Monday, February 2<sup>nd</sup>, crews were excavating the duct bank trench along Folsom Street and saw-cutting on Spear Street.
10. No construction activities occurred on Saturday or Sunday.

### **Environmental Compliance:**

1. Cultural monitoring was conducted Monday through Friday. On February 2<sup>nd</sup> and 3<sup>rd</sup>, cultural constituents were observed and documented, but not collected.
2. PG&E's Environmental Inspector conducted monitoring of the work area and activities on Monday through Sunday, 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):**

1. Underground Construction Co. installed shoring in the 23rd Street trench Monday through Thursday.
2. Underground Construction Co. backfilled duct bank trench with sand and concrete slurry on Monday (see Figure 3).
3. Underground Construction Co. conducted excavation of duct bank trench Tuesday and Wednesday.
4. Underground Construction Co. fused a length of conduit inside the duct bank trench on Thursday.
5. Street sweeping occurred Monday through Thursday.
6. Fencing was installed around the open trench at the end of each day (see Figure 4).

7. At the time of the CPUC EM site visit on Monday, February 2<sup>nd</sup>, crews were removing shoring and pouring concrete slurry into duct bank trench.
8. No construction activities occurred Friday through Sunday.

**Environmental Compliance:**

1. Cultural monitoring was conducted Tuesday through Thursday.
2. Air quality monitoring was conducted Monday through Thursday.
3. PG&E's Environmental Inspector conducted monitoring of the work area and activities on Monday through Sunday, 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. No construction activity related to NTP #4 occurred during the subject week. Manson crews completed rock and debris removal during Week #14, except for several debris items that were too near the north end exit pits and the HDD work. These few items will be removed when the submarine cable installation begins June 1, 2015.

**Environmental Compliance:**

2. No compliance monitoring was conducted during the subject week.

**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 Friday, and Sunday at the yard.
2. Tailboard meetings occurred at the yard Monday through Friday.
3. No construction activities occurred at the yard on Saturday.

**Environmental Compliance:**

1. PG&E's Environmental Inspector conducted monitoring of the work area and activities Monday through Sunday, including SWPPP inspections.
2. PG&E's Environmental Inspectors noted one compliance issue at this location. One of HDD Company's trucks was observed to have a small leak on February 3<sup>rd</sup> (License plate 9B32142). The truck has been observed parked over secondary containment. The PG&E Environmental Inspectors have recommended the truck be serviced to fix the leak or be removed from the project.

## Notices to Proceed

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

**Table 1**  
**Notice to Proceeds (NTPs)**  
 (Updated 02/10/15)

<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.

## Minor Project Changes

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

**Table 2**  
**Minor Project Changes (MPCs)**  
 (Updated 02/10/15)

<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 – HDD North equipment at Bore 1, view west, February 8, 2015. Photo courtesy of PG&E



Figure 2 – Underground North duct bank on Folsom Street buttoned-up for the day. View south, February 2, 2015.



Figure 3 – Pouring cement slurry at underground duct bank on 23<sup>rd</sup> Street. View west, February 2, 2015.



Figure 4 – Fencing installed at end of day around underground duct bank on 23<sup>rd</sup> Street. View west, February 2, 2015.