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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:** June 23, 2015  
**Subject:** Monitoring Report #39 – June 8 to June 14, 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 June 10<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. Overaa conducted housekeeping activities on Wednesday and Thursday.
2. PSC backfilled dewatering wells with concrete on Thursday.
3. Proven delivered and staged equipment on Friday.
4. At the time of the CPUC EM site visit on June 10<sup>th</sup>, no work was being conducted at the switchyard other than office trailer use. Grounding activities occurred earlier in the day (see Figure 1).
5. No construction activities occurred Saturday or Sunday.

#### **Environmental Compliance:**

1. Air quality monitoring was conducted by ERM on Wednesday and Thursday.
2. PG&E's Environmental Inspector conducted monitoring of this area Monday through Friday, including SWPPP inspections.
3. Nesting bird sweeps were conducted Monday through Friday.
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 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 (night work)**

1. Underground Construction Co. removed shoring on Monday.
2. Underground Construction Co. constructed rebar cages on Monday.
3. Underground Construction Co. installed reinforcing steel Monday through Wednesday.
4. Underground Construction Co. installed conduit fittings on Friday.
5. Underground Construction Co. installed rebar on Friday.
6. Underground Construction Co. broke and removed pavement on Friday.
7. At the time of the CPUC site visit during the daytime of June 10<sup>th</sup>, no work was taking place on Folsom Street.
8. Street sweeping occurred Monday through Friday.
9. No construction activities occurred on Saturday or Sunday.

#### **Folsom Street, Duct Bank (day work)**

1. Underground Construction Co. saw-cut pavement on Tuesday.

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

2. Underground Construction Co. excavated for the SFWD waterline relocation on Monday.
3. Underground Construction Co. excavated the duct bank trench Monday through Friday.
4. Underground Construction Co. removed shoring from the duct bank trench on Monday and Friday.

5. Underground Construction Co. backfilled the duct bank trench with concrete on Monday and Tuesday.
6. Underground Construction Co. backfilled the duct bank trench with sand on Tuesday.
7. Underground Construction Co. potholed for utilities on Wednesday.
8. PSC dewatered the duct bank trench Tuesday through Friday.
9. Clean Harbors hauled off excavated material and pavement for disposal Monday through Friday.
10. Street sweeping occurred Monday through Friday.
11. At the time of the CPUC EM site visit on June 10<sup>th</sup>, crews were excavating trench between the vault and Folsom Street (see Figure 2).
12. No construction activities occurred on Saturday or Sunday.

#### **Spear Street, Duct Bank (between Harrison St and cul-de-sac)**

1. Paving and repainting the street has been completed and opened back up to the public.

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

1. PSC dewatered the vault on Monday and Wednesday.
2. New River Electric prepared for the cable pull on Monday.
3. At the time of the CPUC EM site visit on June 10<sup>th</sup>, no work was taking place at the vault.
4. No construction activities occurred in the area on Saturday or Sunday.

#### **Environmental Compliance:**

1. Cultural monitoring was conducted by Far Western Monday through Friday. On June 9<sup>th</sup> and 10<sup>th</sup>, cultural constituents were observed, documented, and collected.
2. PG&E's Environmental Inspector conducted monitoring of the work area and activities Monday through Friday, including SWPPP inspections.
3. Nesting bird sweeps were conducted Monday through Friday.
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.

#### **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 and installed shoring and rebar Monday through Friday.
2. Underground Construction Co. backfilled the duct bank trench with concrete Tuesday through Thursday.
3. Underground Construction Co. installed HDPE conduit in the duct bank trench on Friday.
4. Clean Harbors hauled off excavated materials Monday through Friday.
5. Street sweeping occurred Monday through Friday.

6. Fencing was installed around the open trench at the end of each day.
7. At the time of the CPUC EM site visit on June 10<sup>th</sup>, crews were excavating the duct bank trench, installing conduit, and backfilling with cement (see Figure 3).
8. No construction activities occurred Saturday or Sunday.

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

1. No construction activities occurred at the vault throughout the week.

### **23<sup>rd</sup> Street, Water Line Relocation**

1. Underground Construction Co. backfilled with concrete and paved the waterline relocation excavation on Friday.

### **Environmental Compliance:**

1. Cultural monitoring was conducted by Far Western Monday through Friday. June 8<sup>th</sup> through June 10<sup>th</sup>, cultural constituents were observed, documented, but not collected.
2. Air quality monitoring was conducted by ERM Monday through Friday.
3. PG&E's Environmental Inspector monitored the work area and activities on Monday through Friday, including SWPPP inspections.
4. Nesting bird sweeps were conducted Monday through Friday.
5. PG&E's Environmental Inspectors noted no compliance issues at this location.
6. 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 work activities related to NTP #4 were conducted during the week.

### **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 housekeeping activities on Wednesday and Thursday.
2. MEI conducted grounding rod installation on Wednesday and Thursday.
3. Overaa constructed wooden form bolt templates on Friday.
4. Proven conducted grounding and cable inspections on Friday.
5. At the time of the CPUC EM site visit on June 10th, no work was being conducted at the switchyard other than office trailer use. Grounding activities occurred earlier in the day.
6. No construction activities occurred Saturday or Sunday.

**Environmental Compliance:**

1. Air quality monitoring was conducted by ERM on Wednesday and Thursday.
2. PG&E's Environmental Inspector conducted monitoring of this area Monday through Friday, including SWPPP inspections.
3. Nesting bird sweeps were conducted Monday through Friday.
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. No compliance monitoring was conducted during the subject week.

**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. Durocher installed the water intake structures with fish screens under water along the side of the barge on Tuesday.
2. Durocher conducted plow and anchor trials Tuesday through Saturday.
3. The CPUC EM and Susan Lee and Fritts Golden (Aspen) were given a tour of the Manson cable installation barge in the SF Bay off Pier 30/32 in the morning on June 10<sup>th</sup> (see Figures 4 – 6).
4. No work activities were conducted on Sunday.

**Environmental Compliance:**

1. PG&E's Environmental Inspectors noted no compliance issues at this location.

**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 at the yard.
2. Tailboard meetings occurred at the yard Monday through Friday.
3. Equipment and materials were stored at the yard throughout the week.
4. At the time of the CPUC site visit on June 10<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 Saturday or Sunday.

**Environmental Compliance:**

1. PG&E’s Environmental Inspector conducted monitoring of the work area and activities Monday through Friday, including SWPPP inspections.
2. Nesting bird sweeps were conducted Monday through Friday. On June 12<sup>th</sup>, the PG&E Environmental Inspector discovered a pair of Canadian geese with two chicks foraging in the yard. The PG&E Environmental Inspector walked the family outside the yard through the gate so they would not be trapped in the fenced yard when they closed the gates in the evening. They were led to foraging habitat located east of the yard.
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.

**Notices to Proceed**

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

**Table 1**  
**Notice to Proceeds (NTPs)**  
 (Updated 06/23/15)

<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.

<b>NTP #</b>	<b>Date Requested</b>	<b>Date Issued</b>	<b>Phase</b>	<b>Description</b>
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.
NTP #6	2/19/15	4/07/15	Submarine Cable	Site preparation for submarine cable installation, laying the cable, and pulling the cable to land at either end.

## Minor Project Changes

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

**Table 2**  
**Minor Project Changes (MPCs)**  
 (Updated 06/23/15)

<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 – Potrero Switchyard. View east, June 10, 2015.



Figure 2 – Duct Bank North on Spear Street between Harrison Street and Folsom Street. View west, June 10, 2015.





Figure 3 – Backfilling Duct Bank South with concrete on 23<sup>rd</sup> Street. View east, June 10, 2015.



Figure 4 – Boat trip out to cable-laying barge off Pier 30/32. View northwest, June 10, 2015.



Figure 5 – Cable-laying barge tour off Pier 30/32 in SF Bay. View north, June 10, 2015.



Figure 6 – Cable-laying barge anchored off Pier 30/32 in SF Bay. View southwest, June 10, 2015.