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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:** September 15, 2016  
**Subject:** Monitoring Report #103 – September 5, 2016 to September 11, 2016

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

The PG&E Embarcadero-Potrero 230 kV Transmission Project was fully energized on Sunday, September 11, 2016. Additional work continues at the Potrero Switchyard.

## **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

1. All work activities have been completed at this location.

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

1. All work activities have been completed at this location.

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

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

1. All work activities have been completed at this location.

### **Environmental Compliance:**

1. No compliance monitoring was necessary at this location.

## **E-P Submarine Rock and Debris Removal**

NTP #4 was issued on November 21, 2014 for the removal of rock 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:**

2. No compliance monitoring was necessary at this location.

## **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:**

#### Potrero Switchyard

1. Office trailer use occurred Tuesday through Friday.
2. Overaa drilled, installed metal hangers, welded hangers, and installed architectural panels on the outside south panels of the GIS building Tuesday through Friday (see Figure 1).

3. Overaa aided other work crews and conducted housekeeping and dust control Tuesday through Friday.
4. Overaa installed gate footings outside the GIS building Tuesday through Friday (see Figure 2).
5. CCE conducted electrical work in the GIS building Tuesday through Friday.
6. SSI installed and removed scaffolding at multiple places inside the GIS building Tuesday through Friday.
7. ACME installed card reader on doors for the GIS building Tuesday through Friday.
8. MEI conducted electrical work on lights in the GIS building Tuesday through Friday.
9. CCE conducted electrical work on the transformer and reactor Tuesday through Thursday.
10. Spencer Masonry installed rebar, cement blocks, and mortar, and poured concrete for the perimeter and fire walls Tuesday through Friday (see Figure 3).
11. APEC backfilled and compacted ground around the GIS building Tuesday through Friday (see Figure 4).
12. APEC excavated and installed pipe near the southeast corner of the GIS building for water/sewer tie-in Tuesday through Friday.
13. Clean Harbors replaced roll-off bins Tuesday through Friday.

#### Substation Adjacent to Potrero Switchyard

1. CCE conducted electrical work on the 115 kV bus Tuesday through Friday.

#### **Environmental Compliance:**

- Cultural monitoring was conducted by Far Western Tuesday through Friday in the Potrero Switchyard, and cultural constituents were observed.
- Air quality monitoring was conducted by ERM Tuesday through Friday.
- PG&E's Environmental Inspector (EI) conducted monitoring of this area on Tuesday and Thursday, including SWPPP inspections and nesting bird sweeps. No biological finds were noted.
- PG&E's EI noted three rectified housekeeping and compliance issues:
  - On August 11<sup>th</sup>, the PG&E EI observed a buildup of cigarette butts in the staging area at the northern end of the project site. The concern was still outstanding on August 15<sup>th</sup>, 18<sup>th</sup>, 22<sup>nd</sup>, and September 1<sup>st</sup>. On September 8<sup>th</sup>, the PG&E EI observed that this concern had been rectified.
  - On August 29<sup>th</sup>, the PG&E EI observed a generator with insufficient secondary containment. It was placed in a kiddie pool, which was not lined with plastic and had several holes. On September 1<sup>st</sup>, the PG&E EI observed that this concern was still outstanding. On September 9<sup>th</sup>, the PG&E EI observed that this concern had been rectified.
  - On September 1<sup>st</sup>, the CPUC EM observed two trash cans at the north end of the site that were without lids. It was recommended that these be provided with lids. On September 8<sup>th</sup>, the PG&E EI observed that this concern had been rectified.

#### **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. All remaining materials were removed on December 7<sup>th</sup> and the yard has been turned back over to the Port of San Francisco.

**Environmental Compliance:**

1. No compliance monitoring was necessary 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 09/15/16)

<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 09/15/16)

<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 - Overaa installing architectural tiles on GIS building at Potrero Switchyard, September 6, 2016. Photo courtesy of PG&E.



Figure 2 – Overaa installed gate footings outside of the GIS building, September 8, 2016. Photo courtesy of PG&E



Figure 3 - Spencer Masonry building fire wall around transformer, September 8, 2016.  
Photo courtesy of PG&E



Figure 4 - APEC backfilled and compacted around the GIS building, September 6, 2016.  
Photo courtesy of PG&E.