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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:** August 2, 2016  
**Subject:** Monitoring Report #96 – July 18, 2016 to July 24, 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

## **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. Sumitomo and NRE conducted wire splicing in the vault on Spear Street Monday through Friday (see Figure 1).

#### **Environmental Compliance:**

1. PG&E's Environmental Inspector (EI) conducted monitoring of this area on Monday and Thursday, including SWPPP inspections and nesting bird sweeps. No biological finds were noted.
2. PG&E's EI noted no housekeeping or compliance issues 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. APEC excavated for the water and sewer line tie-in Monday through Saturday (see Figure 2).
2. Sumitomo and NRE staged equipment and vehicles near the transition vault Monday through Saturday.
3. NRE pulled cable from the GIS building at the Potrero Switchyard to the transition vault on 23<sup>rd</sup> Street Thursday and Friday (see Figure 3).

#### **Environmental Compliance:**

1. PG&E's Environmental Inspector (EI) conducted monitoring of this area on Monday and Thursday, including SWPPP inspections and nesting bird sweeps. No biological finds were noted.
2. Cultural monitoring was conducted by Far Western Monday through Saturday and cultural constituents were observed.
3. PG&E's EI noted no housekeeping or compliance issues 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:**

1. 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 Monday through Sunday.
2. Overaa aided other work crews and conducted housekeeping and dust control activities Monday through Saturday.
3. Overaa prepared the GIS exterior for architectural panels Monday through Saturday.
4. Mitchell conducted plumbing in the GIS building Monday through Sunday.
5. CCE installed infrastructure and conducted electrical work in the GIS building Monday through Saturday (see Figure 4).
6. Spencer Masonry conducted perimeter wall brick layout Thursday through Saturday.
7. APEC installed sewer pipe in an excavation south of the GIS building Monday through Friday.
8. APEC excavated and installed grounds west of the GIS building on Monday.
9. Clean Harbors replaced roll-off bins Monday through Saturday.

Substation Adjacent to Potrero Switchyard

1. CCE conducted electrical work in the control building Monday through Friday.
2. CCE QEW monitored work in the substation Monday through Friday.
3. CCE constructed metal infrastructure for use in the GIS building Monday through Saturday.
4. Nexans conducted electrical work on the 115 kV bus Monday through Friday.

**Environmental Compliance:**

1. No cultural monitoring was required during the subject week.
2. Air quality monitoring was conducted by ERM Monday through Saturday.
3. PG&E's Environmental Inspector (EI) conducted monitoring of this area on Monday and Thursday, including SWPPP inspections and nesting bird sweeps. No biological finds were noted.
4. PG&E's EI noted one new housekeeping and compliance issues:
  - On July 21<sup>st</sup>, a 5 gallon bucket being used to secure a porta potty was filled with food trash. The PG&E EI recommended that the bucket be cleaned out and the trash disposed of in a proper receptacle.

## 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 08/2/16)

NTP #	Date Requested	Date Issued	Phase	Description
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 08/2/16)

<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: Sumitomo and NRE conducting racking inside the vault on Spear Street, July 18, 2016.



Figure 2: APEC conducting water and sewer line tie-in work on 23<sup>rd</sup> Street, July 21, 2016.



Figure 3: Sumitomo and NRE pulling cable at Duct Bank South on 23<sup>rd</sup> Street, July 21, 2016.



Figure 4: CCE installing infrastructure and electrical work in GIS building in the Potrero Switchyard, July 18, 2016.