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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:** May 2, 2016  
**Subject:** Monitoring Report #83 – April 18, 2016 to April 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 was on site April 20<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. 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 except racking in the vaults, which is scheduled for the week of April 25<sup>th</sup>, and pulling of conductor cable, which is scheduled to start in June or July 2016 after the conductor pulling is completed from 23<sup>rd</sup> Street.

#### **Environmental Compliance:**

1. No compliance monitoring was necessary 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. Sumitomo and New River conducted racking in the transition vault Monday through Saturday (see Figure 1).
2. At the time of the CPUC EM site visit on April 20<sup>th</sup>, crews were racking inside the transition vault.
3. All work activities have been completed at this location except the pulling of conductor cable, which is scheduled to start in June or July 2016.

#### **Environmental Compliance:**

1. 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 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 conducted housekeeping and dust control activities Monday through Sunday.
3. Overaa aided other work crews Monday through Sunday.
4. APEC jackhammered concrete and excavated west of the GIS building Monday through Sunday (see Figure 2).
5. MEI conducted electrical layout in the GIS building Monday through Sunday.
6. CTS and CMC provided inspections of the GIS building Monday through Sunday.
7. Cosco installed sprinklers in the GIS building Monday through Sunday.
8. CCE installed metal infrastructure north of the GIS building Monday through Sunday (see Figure 3).
9. CCE conducted electrical work in the control building Monday through Sunday.
10. CER installed infrastructure in the GIS building Monday through Sunday.
11. E. Mitchell conducted plumbing work in the GIS building Monday through Sunday.
12. Bayside conducted framing work in the GIS building Monday through Sunday.
13. Proven worked on the manhole and installed piping on Tuesday.
14. Shooter and Butts worked on landscaping on the roof Monday through Friday.
15. ERS conducted waterproofing in the GIS building Monday through Friday.
16. Penhall cut form flashing on the GIS building roof Monday through Sunday.
17. Omni installed sheeting in the GIS building Monday through Thursday.
18. Mastercraft caulked wall joints Thursday through Friday.
19. Midstate conducted work on concrete in the GIS building Monday through Sunday.
20. Clean Harbors replaced roll-off bins Monday through Sunday.
21. At the time of the CPUC EM site visit on April 20<sup>th</sup>, crews were backfilling around the GIS building, excavating a trench between the GIS building and the substation, installing metal infrastructure to the north of the GIS building, and working inside of the GIS building (see Figures 4 and 5).

#### Substation Adjacent to Potrero Switchyard

1. CCE QEW monitored work in the substation Monday through Sunday.
2. APEC conducted housekeeping and dust control activities Monday through Sunday.
3. APEC excavated and installed rebar, cable trays, and conduit in the trenches in the substation Monday through Sunday.

4. CCE worked in the control building Monday through Sunday.
5. At the time of the CPUC EM site visit on April 20<sup>th</sup>, crews excavating and installing rebar, cable trays and conduit in the trenches within the substation.

**Environmental Compliance:**

1. Cultural monitoring was conducted by Far Western Monday through Sunday, and cultural constituents were observed, documented, and some collected.
2. Air quality monitoring was conducted by ERM Monday through Sunday.
3. PG&E’s Environmental Inspector (EI) conducted monitoring of this area Monday through Friday, including SWPPP inspections and nesting bird sweeps.
4. PG&E’s EI noted two housekeeping and compliance issues at this location:
  - On April 18<sup>th</sup>, a generator staged by the reactor pad was observed with ineffective secondary containment. It had a sheet of plastic beneath it, but it was not bermed to prevent runoff. The generator was left by a crew that had demobilized and the PG&E Inspector worked to ensure it was removed from the site. On April 22<sup>nd</sup>, the PG&E EI noted that the issue had been rectified; the generator had been removed from the site.
  - On April 19<sup>th</sup>, a pile of fire suppressant powder was observed on the ground at the staging area outside the Overaa trailer. On April 20<sup>th</sup>, the PG&E EI noted that the concern was rectified.
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 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 05/02/16)

<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 05/02/16)

<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 – Crews racking in the transition vault of 23<sup>rd</sup> Street. View west, April 20, 2016.



Figure 2 – Crews excavated trench for cable installation between the GIS building and the substation. View west, April 20, 2016.



Figure 3 – Crews installed metal infrastructure north of the GIS building. View southeast, April 20, 2016.



Figure 4 – Crews working inside the GIS building. View east, April 20, 2016.



Figure 5 – Crews working inside the GIS building basement. View east, April 20, 2016.