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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 16, 2016  
**Subject:** Monitoring Report #72 – February 1, 2016 to February 7, 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. All work activities have been completed at this location except the pulling of conductor cable, which will be done at a later time.

#### **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. All work activities have been completed at this location except the pulling of conductor cable, which will be done at a later time.

#### **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 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 Saturday.
3. Overaa aided other work crews Monday through Saturday.
4. Overaa built a new egress form on the east side of the GIS building Wednesday through Friday.
5. Metal Set welded in the GIS building Thursday through Saturday.
6. MEI conducted grounding work in the GIS building Tuesday through Saturday (see Figure 1).
7. CMC conducted rebar layout on the first floor of the GIS building Monday through Saturday (see Figure 1).
8. APEC removed pavement and excavated for cable trench Tuesday through Friday (see Figure 2).
9. APEC installed cable trays in the cable trench Wednesday through Friday.
10. APEC installed rebar at the transformer pad Tuesday through Friday.
11. APEC built concrete forms at the transformer pad on Tuesday (see Figure 3).
12. APEC poured concrete at the transformer pad on Thursday (see Figure 4).
13. ERS conducted waterproofing work on the GIS building Monday through Friday.
14. Clean Harbors delivered and staged roll-off bins on Tuesday.

### Substation Adjacent to Potrero Switchyard

1. CCE QEW monitored work in the substation Monday through Friday and Sunday.
2. APEC conducted housekeeping and dust control activities Monday through Friday.
3. APEC excavated Monday through Wednesday.
4. APEC backfilled trenches and laid out baserock on Wednesday and Thursday (see Figure 5).
5. APEC delivered and staged new substation infrastructure to be installed on Thursday and Friday.
6. Contra Costa installed new aboveground infrastructure on the new foundations on Sunday.

## **Environmental Compliance:**

1. Cultural monitoring was conducted by Far Western Monday through Friday, and cultural constituents were observed, documented, and some collected on February 1<sup>st</sup> and 5<sup>th</sup>.
2. Air quality monitoring was conducted by ERM Monday through Friday.
3. PG&E's Environmental Inspector conducted monitoring of this area Monday through Friday, including SWPPP inspections and nesting bird sweeps.
4. PG&E's Environmental Inspector noted several compliance issues at this location:
  - On January 28<sup>th</sup>, the PG&E Environmental Inspector noted a lighting structure (#68476) was leaking oil (approximately ¼ cup) on the ground in the Switchyard. The PG&E Environmental Inspector recommended 1) cleaning oil from pavement with spill kit materials, 2) putting secondary containment under lighting structure (temporarily until fixed), and 3) replacing the lighting structure or having it serviced. On January 29<sup>th</sup>, the PG&E Environmental Inspector observed that kitty litter had been placed over the leak. On February 1<sup>st</sup>, the PG&E Environmental Inspector observed that the lighting structure had been replaced and visqueen

had been placed underneath the new fixture to act as secondary containment. The concern has been rectified.

- On February 3<sup>rd</sup>, the PG&E Environmental Inspector noted that several uncovered concrete washouts were piled up and not covered. On February 4<sup>th</sup>, the washouts were observed to be covered with plastic.
- On February 3<sup>rd</sup>, the PG&E Environmental Inspector noted that a lighting structure (#42542) was leaking approximately 3 Tbsp. of a clear, oily liquid on the ground. The generator had secondary containment, but the whole unit and where the leak was located was not over the plastic. On February 5<sup>th</sup>, it was noted that the oil had been cleaned up, the light fixture had been given proper secondary containment, and the PG&E Inspector had said it was serviced. The concern has been rectified.
- On February 3<sup>rd</sup>, the PG&E Environmental Inspector noted that damaged sand bags were observed at two locations: 1) at the drainage inlet in the substation just northwest of the 23<sup>rd</sup> Street gate, and 2) along pavement just west of the Overaa porta-potties and hazardous waste bins. Replacement of sandbags was recommended.
- On February 3<sup>rd</sup>, the PG&E Environmental Inspector observed three items in the yard laying on the ground between the GIS building and the 23<sup>rd</sup> Street gate that were damaged and non-functional including: 1) an unused torn, half-filled sand bag, 2) an old pipe piece, and 3) a used non-functional fiber roll. On February 5<sup>th</sup>, 1) and 3) were disposed of, and 2) was not rectified.
- On February 4<sup>th</sup>, the PG&E Environmental Inspector noted several oil absorbent pads on the pavement just north of the ABB trailer. No vehicle was observed onsite leaking. On February 5<sup>th</sup> it was noted that the pads had been cleaned up and no traces of oil remained. This concern has been rectified.
- On February 4<sup>th</sup>, the PG&E Environmental Inspector noted a porta-potty was not anchored in the southeast corner of the substation near the 23<sup>rd</sup> Street gate. On February 5, it was observed that the porta-potty had been tied down to a sand bag on either side. This concern has 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 2/16/16)

<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 2/16/16)

<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 working in the GIS building. View east, February 3, 2016. Photo courtesy of PG&E.



Figure 2 – APEC excavating for cable trench. View east, February 3, 2016. Photo courtesy of PG&E.





Figure 3 – APEC built concrete forms at the transformer pad. View south, February 2, 2016. Photo courtesy of PG&E.



Figure 4 – APEC poured concrete at the transformer pad. View southwest, February 5, 2016. Photo courtesy of PG&E.



Figure 5 – APEC backfilled trenches and laid out baserock in adjacent substation. View south, February 3, 2016. Photo courtesy of PG&E.