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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 24, 2016
Subject: Monitoring Report #87 – May 16, 2016 to May 22, 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 23rd Street adjacent to the existing Potrero Substation on the corner of 23rd 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 23rd 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 (23rd 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 23rd 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 with the exception of pulling of conductor cable, which is scheduled to start in June or July 2016 after the conductor pulling is completed from 23rd Street.

Environmental Compliance:

1. No compliance monitoring was necessary at this location.

Summary of Activity for the Duct Bank South (23rd Street):

23rd Street, Duct Bank and Vault

1. All work activities have been completed at this location with the exception of pulling of conductor cable, which is scheduled to start in June or July 2016.

Environmental Compliance:

1. The PG&E Environmental Inspector noted no compliance concerns.

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 aided other work crews and conducted housekeeping and dust control activities Monday through Sunday.
3. APEC backfilled and compacted backfill around the reactor pad and the GIS building Monday through Saturday.
4. APEC worked on the manhole east of the GIS building Monday through Friday.
5. APEC installed grounding rods in the unpaved area around the GIS building Thursday through Sunday.
6. MEI and ACMI conducted electrical work in/on the GIS building Monday through Sunday (see Figure 1).
7. CER installed infrastructure in/on the GIS building Monday through Sunday.
8. Midstate conducted concrete repair and patchwork in/on the GIS building Monday through Sunday.
9. CCE conducted electrical work in the control building and pulled wire between the GIS building and the reactor and transformer Monday through Sunday.
10. Penhall conducted core drilling in the GIS building Monday through Sunday.
11. Bayside installed sheet rocking and taping in the GIS building Monday through Sunday.
12. Scaffolding Solutions installed scaffolding around the transformer and reactor, including plastic around the scaffolding, Tuesday through Friday (see Figure 2).
13. Clean Harbors replaced roll-off bins Monday through Sunday.

Substation Adjacent to Potrero Switchyard

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

Environmental Compliance:

1. Cultural monitoring was conducted by Far Western Monday through Wednesday and cultural constituents were observed and documented.
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.
 - On May 19th, the PG&E EI observed a mourning dove potentially nest site searching in the switchyard; however, no nest site was selected.
4. PG&E's EI noted several housekeeping and compliance issues at this location:
 - On May 17th, equipment and hazardous materials were observed at separate locations without proper secondary containment (see Figure 3). While the secondary containment was corrected at both locations within 24 hours, the lack of properly installed secondary containment has been

a repeated compliance issue noted by the PG&E EI over the past several months where in some instances corrective actions haven't been conducted for days.

- On May 18th corrective action was taken for a fiber roll that had pulled away from the fence line and was non-functioning, as observed on May 11th (see Figure 4).
- On May 18th a rumble plate was installed at the gate entrance inside the switchyard for stabilization, as recommended on May 10th (see Figure 5).
- On May 20th, two areas were observed where litter was accumulating within the southwest corner of the yard. Given the repeated observations of accumulated litter and cigarette butts over the past several weeks, this observations was noted as an "ongoing occurrence." The PG&E EI has recommended additional garbage can(s), and that litter be picked up and disposed of properly.

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 7th 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 05/24/16)

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 rd St., SF.
NTP #2	7/31/14	8/28/14	HDD	Horizontal directional drilling on Spear St. and 23 rd St. connecting to the SF Bay.

NTP #	Date Requested	Date Issued	Phase	Description
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 rd 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 05/24/16)

MPC #	Date Requested	Date Issued	Phase	Description
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: MEI installing light fixtures on the GIS building in the Potrero Switchyard, May 16, 2016. Photo courtesy of PG&E.



Figure 2: Scaffolding Solutions installing plastic around scaffolding at the transformer in the Potrero Switchyard, May 19, 2016. Photo courtesy of PG&E.



Figure 3: Hazardous materials without containment in the Potrero Switchyard, May 17, 2016. Photo courtesy of PG&E.



Figure 4: Fiber roll installed on top of dirt at curb at eastern 23rd St. gate at Potrero Switchyard, May 16, 2016. Photo courtesy of PG&E.



Figure 5: Rumble plate installed at new 23rd St gate in the Potrero Switchyard, May 18, 2016.
Photo courtesy of PG&E.