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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: July 10, 2015
Subject: Monitoring Report #41 – June 22 to June 28, 2015

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 June 22nd.

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, Duct Bank

1. Underground Construction Co. excavated the duct bank trench Monday through Friday.
2. Underground Construction Co. installed shoring in the trench on Monday.
3. Underground Construction Co. saw-cut pavement on Monday and removed it on Wednesday.
4. Underground Construction Co. potholed for utilities Monday through Wednesday.
5. Underground Construction Co. installed rebar in the trench Wednesday through Friday.
6. Underground Construction Co. installed conduit in the trench on Friday and Saturday.
7. Underground Construction Co. poured concrete on Saturday.
8. Clean Harbors hauled off excavated materials Monday through Friday.
9. At the time of the CPUC site visit on June 22nd, crews were saw-cutting pavement at Folsom Street and Fremont Street, and doing some excavation and shoring on Folsom Street between Beale Street and Main Street (see Figure 1).
10. Street sweeping occurred Monday through Saturday.
11. No construction activities occurred on Sunday.

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

1. Underground Construction Co. excavated the duct bank trench Monday, Tuesday, Thursday, and Friday.
2. Underground Construction Co. backfilled the water line replacement excavation on Tuesday.
3. Underground Construction Co. poured concrete on Wednesday.
4. Underground Construction Co. installed rebar Thursday and Saturday.
5. Underground Construction Co. installed conduit on Saturday.
6. PSC dewatered the duct bank trench Monday, Tuesday, and Saturday.
7. Clean Harbors hauled off excavated materials Monday through Friday.
8. Street sweeping occurred Monday through Saturday.
9. At the time of the CPUC EM site visit on June 22nd, crews were jackhammering and excavating the duct bank trench, and pouring concrete behind trench shoring between the vault and Folsom Street (see Figure 2).
10. No construction activities occurred on Sunday.

Spear Street, Vault

1. Durocher/REI/New River Electric conducted a tailboard meeting on Monday.

2. Durocher/REI/New River Electric conducted a cable pull of Bore 3 at the pull vault on Tuesday.
3. New River Electric installed cable in vaults on Wednesday.
4. PSC dewatered pull/transition vaults Tuesday through Thursday.
5. REI performed electrical work Friday and Saturday.

Environmental Compliance:

1. Cultural monitoring was conducted by Far Western Monday through Friday. Cultural constituents were observed, documented, and some collected June 24th and 26th.
2. PG&E's Environmental Inspector conducted monitoring of the work area and activities Monday through Saturday, including SWPPP inspections.
3. Nesting bird sweeps were conducted Monday through Saturday.
4. PG&E's Environmental Inspectors noted no compliance issues at this location.
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.

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

23rd Street, Duct Bank

1. Underground Construction Co. excavated the duct bank trench Monday through Friday.
2. Underground Construction Co. dewatered the duct bank trench Tuesday and Wednesday.
3. Underground Construction Co. saw-cut and removed pavement on Wednesday.
4. Underground Construction Co. installed shoring on Thursday.
5. Underground Construction Co. potholed for utilities on Thursday.
6. Underground Construction Co. poured concrete on Friday.
7. Clean Harbors hauled off excavated materials Monday through Saturday.
8. Street sweeping occurred Monday through Friday.
9. Fencing was installed around the open trench at the end of each day.
10. At the time of the CPUC EM site visit on June 22nd, crews were excavating the duct bank trench near the DHL gate (see Figure 3).
11. No construction activities occurred Saturday or Sunday.

23rd Street, Vault

1. New River Electric performed electrical work on Saturday.
2. PSC dewatered on Sunday.
3. Durocher/REI/New River Electric conducted cable pull of Bore 1 at the pull vault on Sunday.

23rd Street, Water Line Relocation

1. No construction activities occurred for the water line relocation throughout the week.

Environmental Compliance:

1. Cultural monitoring was conducted by Far Western Monday through Friday. Cultural constituents were observed, documented, but not collected June 22nd through June 26th.
2. Air quality monitoring was conducted by ERM Monday through Friday.
3. PG&E's Environmental Inspector conducted monitoring of the work area and activities on Monday through Saturday, including SWPPP inspections.
4. Nesting bird sweeps were conducted Monday through Saturday.
5. PG&E's Environmental Inspectors noted no compliance issues at this location.
6. 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. No work activities related to NTP #4 were conducted during the week.

Environmental Compliance:

1. No compliance monitoring was conducted.

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:

1. Overaa conducted housekeeping and dust control activities Monday through Saturday.
2. Overaa set concrete forms for building foundation Monday through Saturday.
3. Office trailer use occurred Monday through Saturday.
4. At the time of the CPUC EM site visit on June 22nd, crews were constructing forms for the building foundation (see Figure 4).
5. No construction activities occurred on Sunday.

Environmental Compliance:

1. Air quality monitoring was conducted by ERM Monday through Saturday.
2. PG&E's Environmental Inspector conducted monitoring of this area Monday through Saturday, including SWPPP inspections.

3. Nesting bird sweeps were conducted Monday through Saturday.
4. PG&E's Environmental Inspectors noted no compliance issues at this location.
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. No compliance monitoring was conducted during the subject week.

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. Durocher conducted diving operations at the North Bore 3 conduit on Monday and Tuesday.
2. Durocher conducted submarine cable-laying and burying via hydroplow Wednesday through Saturday.
3. Durocher repaired a broken pump on Thursday.
4. Durocher conducted diving operations at the South Bore 1 conduit on Sunday.

Environmental Compliance:

1. PG&E's Environmental Inspector inspected the fish screen prior to it being placed onto a replacement pump and put into operation on Thursday.
2. PG&E's Environmental Inspectors noted no compliance issues at this location.

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. Office trailer use occurred Monday through Saturday at the yard.
2. Tailboard meetings occurred at the yard Monday through Saturday.
3. Equipment and materials were stored at the yard throughout the week.
4. No work occurred at the yard on Sunday.

Environmental Compliance:

1. PG&E's Environmental Inspector conducted monitoring of the work area and activities Monday through Saturday, including SWPPP inspections.
2. Nesting bird sweeps were conducted Monday through Saturday.
3. PG&E's Environmental Inspectors noted no compliance issues 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 07/10/15)

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 #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.
NTP #6	2/19/15	4/07/15	Submarine Cable	Site preparation for submarine cable installation, laying the cable, and pulling the cable to land at either end.

Minor Project Changes

Table 2 summarizes the Minor Project Changes submitted for the Embarcadero-Potrero Project.

Table 2
Minor Project Changes (MPCs)
(Updated 07/10/15)

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 – Duct Bank North work on Folsom Street between Beale Street and Main Street. View north, June 22, 2015.



Figure 2 – Pouring cement slurry behind shoring in trench on Spear Street. View west, June 22, 2015.

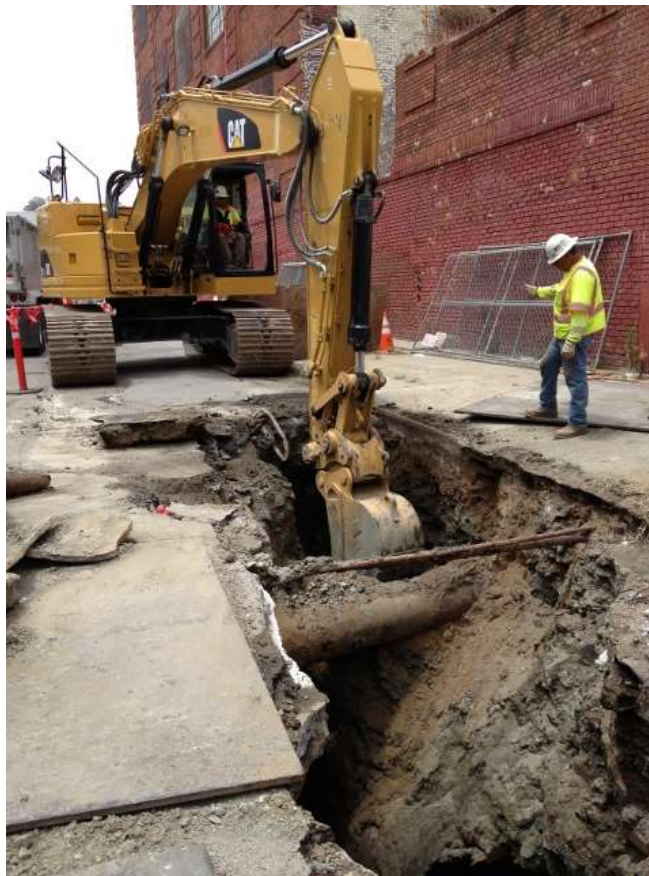


Figure 3 – Excavating duct bank on 23rd Street. View west, June 22, 2015.

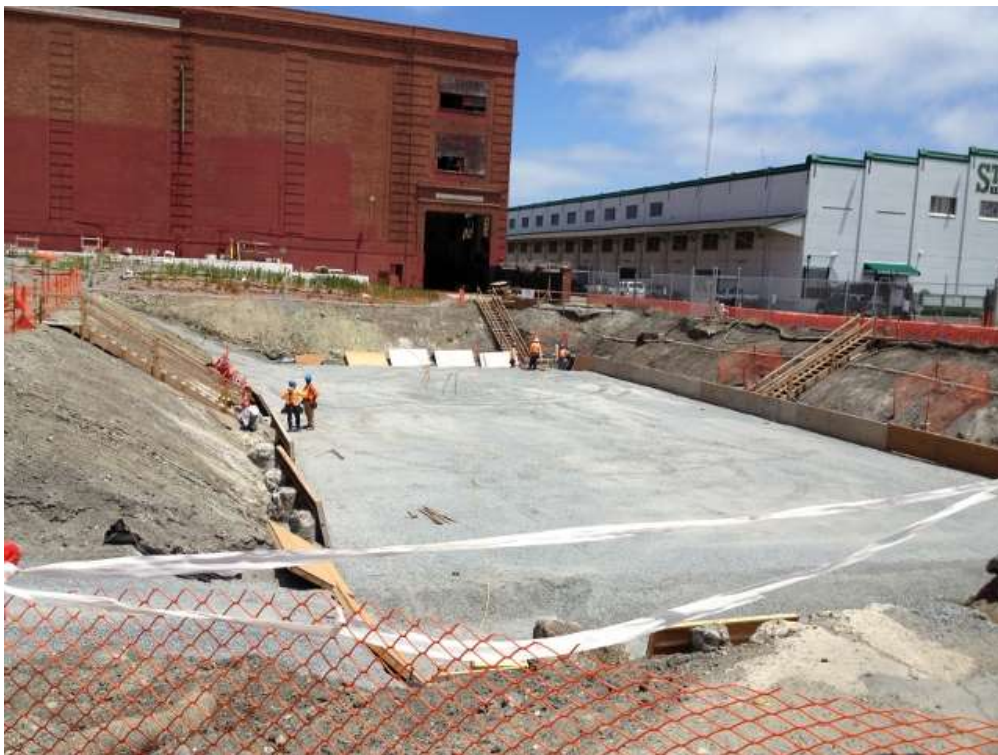


Figure 4 – Potrero Switchyard. View southeast, June 22, 2015.