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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 14, 2015
Subject: Monitoring Report #42 – June 29 to July 5, 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

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 (day work)

1. Underground Construction Co. excavated the duct bank trench Monday through Thursday.
2. Underground Construction Co. installed shoring in the trench on Monday and Tuesday.
3. Underground Construction Co. conducted road paving on Wednesday.
4. Underground Construction Co. removed shoring from the trench on Thursday (see Figure 1).
5. Clean Harbors hauled off excavated materials Monday through Thursday.
6. Street sweeping occurred Monday through Thursday.
7. No construction activities occurred on Saturday or Sunday.

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

1. Underground Construction Co. excavated the duct bank trench Monday and Tuesday (see Figure 2).
2. Underground Construction Co. backfilled the trench with concrete on Monday and Tuesday.
3. Underground Construction Co. dewatered Monday through Thursday.
4. Underground Construction Co. installed rebar on Monday.
5. Underground Construction Co. installed shoring on Monday, Tuesday, and Thursday.
6. Underground Construction Co. potholed for utilities on Monday.
7. Clean Harbors hauled off excavated materials Monday through Thursday.
8. Street sweeping occurred Monday through Thursday.
9. No construction activities occurred on Saturday or Sunday.

Spear Street, Vault

1. PSC dewatered pull/transition vaults on Thursday.
2. New River Electric pulled winch line in North Bore 2 on Thursday.
3. New River Electric conducted Phase A cable and fiber optic cable pull in North Bore 2 on Friday.
4. New River Electric performed electrical work on Friday.

Environmental Compliance:

1. Cultural monitoring was conducted by Far Western Monday through Thursday. On July 1st and 2nd, cultural constituents were observed, documented, and collected.
2. PG&E's Environmental Inspector conducted monitoring of the work area and activities Monday through Thursday, including SWPPP inspections.
3. Nesting bird sweeps were conducted Monday through Thursday.
4. PG&E's Environmental Inspectors noted no compliance issues at this location.

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

23rd Street, Duct Bank

1. Underground Construction Co. excavated the duct bank trench and installed conduit on Monday.
2. Underground Construction Co. removed shoring from the trench on Monday and Tuesday.
3. Underground Construction Co. backfilled the trench with concrete on Monday and Tuesday (see Figure 3).
4. Underground Construction Co. loaded trucks with previously excavated spoils on Wednesday.
5. Underground Construction Co. hauled off construction materials on Wednesday.
6. Underground Construction Co. conducted cleanup and housekeeping activities on Wednesday.
7. Clean Harbors hauled off excavated materials Monday through Wednesday.
8. Street sweeping occurred Monday through Wednesday.
9. Fencing was installed around the open trench at the end of each day.
10. No construction activities occurred on Friday or Saturday.

23rd Street, Vault

1. New River Electric applied link-seal plugging ducts on Monday and Tuesday.
2. New River Electric setup the power cable winch on Sunday.
3. New River Electric cut pipe 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 and Tuesday.
2. Air quality monitoring was conducted by ERM Monday through Wednesday.
3. PG&E's Environmental Inspector conducted monitoring of the work area and activities on Monday through Thursday, including SWPPP inspections.
4. Nesting bird sweeps were conducted Monday through Thursday.
5. PG&E's Environmental Inspectors noted one compliance issue at this location. On June 29th, the PG&E Environmental Inspector observed a small hydraulic fluid spill (approximately 2-4 cups) under the back of New Rivers Electric equipment. The cleanup was conducted that day, and the vehicle was removed from the site and serviced on June 30th.

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 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 set sump baskets and screen pins on Monday.
2. Overaa built and installed concrete forms for the building foundation on Monday and poured concrete on Tuesday (see Figure 4).
3. Overaa cleaned concrete forms on Wednesday and Thursday.
4. Overaa conducted housekeeping and dust control activities Tuesday through Thursday.
5. Overaa patched forms on Thursday.
6. Office trailer use occurred Monday through Thursday.
7. No construction activities occurred Friday through Sunday.

Environmental Compliance:

1. Air quality monitoring was conducted by ERM Monday through Thursday.
2. PG&E's Environmental Inspector conducted monitoring of this area Monday through Thursday, including SWPPP inspections.
3. Nesting bird sweeps were conducted Monday through Thursday.
4. PG&E's Environmental Inspectors noted no compliance issues at this location.

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 adjusted the vessel location on Monday and Thursday (see Figure 5).
2. Durocher serviced equipment on Tuesday.
3. Durocher picked-up cable on Tuesday.
4. Durocher prepped the hydroplow on Thursday.
5. Durocher conducted diving operations at the North Bore 2 receiving pit on Thursday and Friday.
6. Durocher pulled winch line into the North Bore 2 on Thursday.

7. Durocher conducted Phase A cable and fiber optic cable pull in the North Bore 2 on Friday.
8. Durocher hydro-plowed North Bore 2 to South Bore 2 Phase A and fiber optic cable Friday through Sunday.
9. No work activities occurred on Wednesday.

Environmental Compliance:

1. 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 Thursday at the yard.
2. Tailboard meetings occurred at the yard Monday through Thursday.
3. Equipment and materials were stored at the yard throughout the week.
4. No work occurred at the yard Friday through Sunday.

Environmental Compliance:

1. PG&E’s Environmental Inspector conducted monitoring of the work area and activities Monday through Thursday, including SWPPP inspections.
2. Nesting bird sweeps were conducted Monday through Thursday.
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 07/14/15)

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 #	Date Requested	Date Issued	Phase	Description
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 07/14/15)

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 – Removing shoring from trench on Folsom Street. View south, July 2, 2015. Photo courtesy of PG&E.



Figure 2 – Excavating duct bank trench on Spear Street. View west, June 30, 2015. Photo courtesy of PG&E.



Figure 3 – Concrete slurry poured in duct bank trench on 23rd Street. View east, June 29, 2015. Photo courtesy of PG&E.

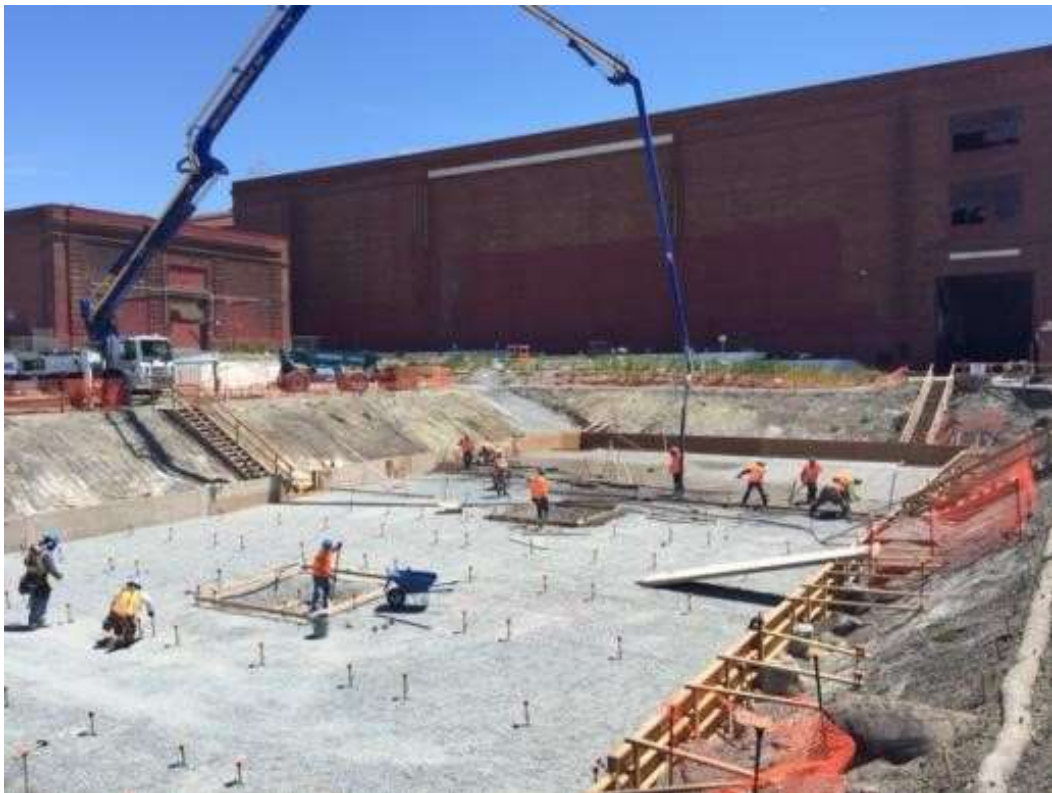


Figure 4 – Pouring concrete for GIS building foundation at Potrero Switchyard. View northeast, June 30, 2015. Photo courtesy of PG&E.



Figure 5 – Durocher positioning vessel off Pier 30/32 for submarine cable installation. View northeast, July 2, 2015. Photo courtesy of PG&E.