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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 29, 2015
Subject: Monitoring Report #36 – May 18 to May 24, 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. PG&E used their office trailer at the Potrero Switchyard Monday through Thursday.
2. No construction activities occurred Friday through Sunday.

Environmental Compliance:

1. PG&E's Environmental Inspector conducted monitoring of this area 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.

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. Underwater Resources divers inspected the in-water receiving pits and repaired a leaking conduit cap valve on Friday.
2. All other 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 Street and Spear Street):

Folsom Street, Night Work

1. Underground Construction Co. completed the 12-inch bore between pits, reamed and pulled back with the 36-inch conduit, and removed casings on Monday.
2. Underground Construction Co. hauled off boring equipment on Tuesday.
3. Underground Construction Co. removed mud from the bore excavation Tuesday through Thursday.
4. Underground Construction Co. cut out conduit from the western bore excavation on Wednesday.
5. Underground Construction Co. installed a coupler to connect two pieces of conduit on Thursday.
6. Street sweeping occurred Monday through Friday.
7. No construction activities occurred on Saturday and Sunday.

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

1. Underground Construction Co. welded plates on Monday.
2. Underground Construction Co. poured concrete on Monday and Tuesday.
3. Underground Construction Co. saw cut pavement on Wednesday.
4. Underground Construction Co. conducted housekeeping on Wednesday.
5. Underground Construction Co. backfilled the duct bank trench on Monday and Thursday (see Figure 1).
6. Underground Construction Co. removed shoring from the duct bank trench on Thursday.
7. Street sweeping occurred Monday through Friday.
8. No construction activities occurred on Saturday and Sunday.

Spear Street, Duct Bank (between Harrison Street and cul-de-sac)

1. Underground Construction Co. saw cut pavement on Tuesday and Wednesday (see Figure 2).
2. Underground Construction Co. removed pavement on Tuesday, Wednesday, and Friday.
3. Underground Construction Co. conducted minor excavation on Tuesday and Friday.
4. Underground Construction Co. conducted housekeeping on Thursday and Friday.
5. Underground Construction Co. backfilled the duct bank trench with concrete on Friday.
6. Clean Harbors hauled off excavated material and pavement for disposal on Tuesday and Friday.
7. No construction activities occurred on Saturday and Sunday.

Spear Street, Vault

1. Underground Construction Co. dewatered the vault on Tuesday and Wednesday.

Environmental Compliance:

1. Cultural monitoring was conducted Tuesday through Friday.
2. PG&E's Environmental Inspector conducted monitoring of the work area and activities Monday through Friday, including SWPPP inspections.
3. Nesting bird sweeps were conducted Monday through Friday.
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. fused duct bank conduit Monday through Wednesday, and Friday (see Figure 3).
2. Underground Construction Co. backfilled the duct bank trench Monday through Thursday.
3. Underground Construction Co. excavated duct bank trench on Thursday.
4. Underground Construction Co. installed a pull box cover on Thursday (see Figure 4).
5. Clean Harbors hauled off excavated materials on Thursday.
6. Street sweeping occurred Monday through Friday.
7. Fencing was installed around the open trench at the end of each day.
8. No construction activities occurred on Saturday or Sunday.

23rd Street, Vault

1. Underground Construction Co. installed link seals in the vault on Monday.
2. Underground Construction Co. grouted in the vault on Tuesday.
3. Underground Construction Co. cleaned the inside of the vault on Tuesday.

Environmental Compliance:

1. Cultural monitoring was conducted by Far Western on Thursday. On May 21st, cultural constituents were observed, documented, but not collected.
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 Friday, including SWPPP inspections.
4. Nesting bird sweeps were conducted Monday through Friday.
5. PG&E's Environmental Inspectors noted no compliance issues 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. No construction activity related to NTP #4 occurred during the subject week. Manson crews completed rock and debris removal during Week #14, except for several debris items that were too near the north end exit pits and the HDD work. These few items will be removed when the submarine cable installation begins in June 2015.

Environmental Compliance:

1. No compliance monitoring was conducted during the subject week.

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

Environmental Compliance:

1. PG&E’s Environmental Inspector conducted monitoring of the work area and activities Monday through Friday, including SWPPP inspections.
2. Nesting bird sweeps were conducted Monday through Friday.
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 05/29/15)

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 05/29/15)

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 – Backfilling of duct bank on Spear Street on west side of Harrison Street. View east, May 18, 2015. Photo courtesy of PG&E.



Figure 2 – Saw cutting pavement on Spear Street in cul-de-sac. View east, May 19, 2015. Photo courtesy of PG&E.



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Figure 3 – Fusing duct bank conduit on 23rd Street. View west, May 22, 2015. Photo courtesy of PG&E.



Figure 4 – Installed pull box cover at duct bank south on 23rd St. View northwest, May 21, 2015. Photo courtesy of PG&E.