



235 Montgomery Street, Suite 935, San Francisco, CA 94104
Tel. 415-955-4775, Fax 415-955-4776, www.aspeneg.com

PROJECT MEMORANDUM

PG&E EMBARCADERO-POTRERO 230 KV TRANSMISSION PROJECT

To: Billie Blanchard, Project Manager, CPUC
From: Vida Strong, Aspen Project Manager
Date: January 8, 2014
Subject: Monitoring Report #16 – December 29, 2014 to January 4, 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. No construction activities occurred Monday through Sunday at the Potrero Switchyard.

Environmental Compliance:

1. N/A

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. HDD Company drilled the pilot hole for Bore 2 Monday through Wednesday, and Friday and Saturday (see Figure 1).
2. Traffic controls have been established at the corner of Spear Street and Harrison Street by Bay Area Traffic Solutions (BATS). Limited access is provided to Spear Street (a dead end street) including deliveries and people with parking garage permits, as well as construction personnel.
3. An 8-foot-tall chain link fence with sound blankets are in place around the HDD equipment and work area.
4. Street sweeping occurred Monday through Wednesday, Friday, and Saturday.
5. No construction activities occurred on Thursday and Sunday.
6. Vortex was on site Monday, but no work was conducted.



Environmental Compliance:

1. PG&E's Environmental Inspector conducted monitoring of the work area and activities Monday through Wednesday, Friday, and Saturday, including SWPPP inspections and checking the drill path in the Bay for signs of drilling fluid release.
2. PG&E's Environmental Inspector noted no compliance issues at this location.
3. PG&E's Biological Monitor observed signs of a herring spawn near Pier 30/32 near HDD north on December 29th. CDFW personnel notified PG&E that eggs had been observed on Piers 30/32 during a spawn survey and directed PG&E to shut down all in-water work.

Summary of Activity at the Southern Bore (23rd Street):

1. HDD Company drilled at Bore 3 Monday through Wednesday, Friday, and Saturday (see Figure 2).
2. HDPE pipe was fused together on Monday and Tuesday.
3. Street sweeping occurred Monday through Wednesday, Friday, and Saturday.
4. No construction activities occurred Thursday and Sunday.

Environmental Compliance:

1. PG&E's Environmental Inspector conducted monitoring of the work area and activities on Monday through Wednesday, Friday and Saturday, including SWPPP inspections and checking the drill path in the Bay for signs of drilling fluid release.
2. PG&E's Environmental Inspectors noted no compliance issues at this location.
3. PG&E's Biological Monitor observed herring spawning along the shoreline.

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.):

1. Underground Construction Co. installed BMPs at drain inlets on Friday.
2. Underground Construction Co. saw cut for the utility relocation on Spear Street on Friday.
3. Underground Construction Co. jackhammered for the utility relocation on Spear Street on Saturday.
4. Underground Construction Co. excavated and off-hauled soil for the utility relocation on Spear Street on Friday and Saturday (see Figure 3).
5. No construction activities occurred Monday through Thursday, and Sunday.

Environmental Compliance:

1. Cultural monitoring was conducted on Friday and Saturday. Cultural constituents were observed, documented, and collected on January 2nd.
2. PG&E's Environmental Inspector conducted monitoring of the work area and activities on Friday and Saturday, including SWPPP inspections.
3. PG&E's Environmental Inspectors noted no compliance issues at this location.

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

1. Underground Construction Co. excavated for duct bank on Monday and Tuesday (see Figure 4).
2. Underground Construction Co. removed abandoned pipe material on Tuesday.
3. Street sweeping occurred Monday and Tuesday.
4. No construction activities occurred Wednesday through Sunday.

Environmental Compliance:

1. Cultural monitoring was conducted on Monday and Tuesday. Inspection of the brick sewer feature that was previously observed during excavation was conducted on December 29th.
2. Air Quality monitoring was conducted on Monday and Tuesday.
3. PG&E's Environmental Inspector conducted monitoring of the work area and activities on Monday and Tuesday, including SWPPP inspections.
4. 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 June 1, 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 Wednesday, Friday, and Saturday at the yard.
2. Tailboard meetings occurred at the yard Monday, Tuesday, Friday and Saturday.
3. No construction activities occurred at the yard Monday through Sunday.

Environmental Compliance:

1. PG&E's Environmental Inspector conducted monitoring of the work area and activities Monday through Wednesday, Friday and Saturday, including SWPPP inspections.
2. 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. A Modification to NTP #3 was reviewed and approved during the subject week to allow for trenching from the new Potrero Switchyard to the existing switchyard for the 230kV/115kV connections across the Trans Bay Cable.

Table 1
Notice to Proceeds (NTPs)
 (Updated 01/08/15)

NTP #1	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 230kV/115kV connections across the Trans Bay Cable.
NTP #4	11/19/14	11/21/14	Subsea Cable	Rock and debris removal along subsea cable route.

Minor Project Changes

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

Table 2
Minor Project Changes (MPCs)
 (Updated 01/08/15)

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 – HDD North secondary containment for bentonite. View southwest, January 3, 2015. Photo courtesy of PG&E.



Figure 2 – HDD Company drilling at Bore 3 at HDD South. View west, December 29, 2014. Photo courtesy of PG&E.



Figure 3 – Excavating for utility relocation on Spear Street. View west, January 3, 2015.
Photo courtesy of PG&E.



Figure 4 – Excavation and shoring for duct bank south on 23rd Street. December 30, 2014.
Photo courtesy of PG&E.

