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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: January 8, 2014
Subject: Monitoring Report #15 – December 22 to December 28, 2014

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. Foundation demolition and excavation occurred Monday.
2. Removal of rebar from concrete for recycling occurred Monday (see Figure 1).
3. Rebar was hauled off site on Monday and concrete was hauled off site Monday and Tuesday.
4. PSC removed non-hazardous oily liquid from drums and totes on Friday, as well as removed the drum and totes from the site.
5. Street sweeping occurred Monday, Tuesday, and Friday.
6. No construction activities occurred Wednesday, Thursday, Saturday, or Sunday.

Environmental Compliance:

1. Cultural monitoring was conducted Monday.
2. Air quality monitoring was conducted Monday, Tuesday, and Friday.
3. PG&E's Environmental Inspector conducted monitoring of this area Monday, Friday, and Saturday, including SWPPP inspections.
4. 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. HDD Company installed drill head directional cable wire on Saturday and Sunday.
2. HDD Company moved drilling equipment and material from the Bore 3 drill pit to Bore 2 drill pit on Saturday and Sunday.
3. 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.
4. An 8-foot-tall chain link fence with sound blankets are in place around the HDD equipment and work area.
5. Street sweeping occurred Monday, Saturday, and Sunday.
6. No construction activities occurred on Monday through Friday.
7. Vortex did not conduct any submarine activities throughout the week.

Environmental Compliance:

1. PG&E's Environmental Inspector conducted monitoring of the work area and activities Monday, Tuesday, Saturday, and Sunday, including SWPPP inspections.
2. PG&E's Environmental Inspector noted no compliance issues at this location.
3. The PG&E Environmental Inspector inspected the piers and Bay for signs of a herring spawn on Sunday.

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

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

Environmental Compliance:

1. PG&E's Environmental Inspector conducted monitoring of the work area and activities on Monday, Tuesday, Saturday, and Sunday, 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. The PG&E Environmental Inspector inspected the shore and Bay for signs of a herring spawn on Sunday and observed fish eggs on rocks and seaweed and gulls swarming the area (see Figure 4).

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. No work occurred due to the City holiday moratorium which is in place through January 1st.

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

1. Underground Construction pot-holed for utilities on Monday and saw cut pavement on Tuesday.
2. Street sweeping occurred Monday and Tuesday.
3. No work activities occurred Wednesday through Sunday.

Environmental Compliance:

1. Cultural monitoring was conducted on Monday.
2. Air Quality monitoring was conducted Monday, Tuesday, and Friday.
3. PG&E's Environmental Inspector conducted monitoring of the work area and activities on Monday, Tuesday, Saturday, and Sunday, 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, Tuesday, Saturday, and Sunday at the yard.
2. Tailboard meetings occurred at the yard Monday and Tuesday.
3. No construction activities occurred at the yard Wednesday through Friday.

Environmental Compliance:

1. PG&E's Environmental Inspector conducted monitoring of the work area and activities Monday, Tuesday, Saturday and Sunday, 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 – Loading rebar to be hauled off and recycled at Potrero Switchyard. View northeast, December 22, 2014. Photo courtesy of PG&E.



Figure 2 – HDD Company drilling at Bore 3 at HDD South. View east, December 27, 2014. Photo courtesy of PG&E.



Figure 3 – HDPE fusing at HDD South along 23rd Street. View east, December 22, 2014.
Photo courtesy of PG&E.



Figure 4 – Herring fish eggs on rocks and seaweed at HDD south. December 28, 2014.
Photo courtesy of PG&E.