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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: December 15, 2014
Subject: Monitoring Report #12 – December 1 to December 7, 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 was on site December 4.

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 activities occurred Monday, Tuesday, Thursday, and Friday (see Figure 1).
2. Removal of rebar from concrete for recycling occurred Monday, Tuesday, Thursday, and Friday.
3. Asbestos abatement of pipe was conducted by PSC on Monday and Friday.
4. Street sweeping occurred Monday, Tuesday, Thursday, and Friday.
5. New chain link fence was installed on Friday.
6. At the time of the CPUC EM site visit on Thursday, December 4th, foundation demolition and excavation were occurring with the use of excavators. The area was being watered to keep the dust down as they excavated.
7. No work was conducted on Wednesday, Saturday, and Sunday.

Environmental Compliance:

1. Cultural monitoring was conducted Monday, Tuesday, Thursday, and Friday. Cultural constituents were observed, documented, but not collected on December 1 -2 and December 4 – 5.
2. Air quality monitoring was conducted Monday, Tuesday, Thursday, and Friday.
3. PG&E's Environmental Inspector conducted monitoring of this area throughout the week, including SWPPP inspections.
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.

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 drilling and locating activities continued at Bore 3 Monday through Sunday.
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 Sunday.
5. Vortex divers confirmed pressurized air coming from the Bore 3 receiving pit on Monday.
6. Vortex divers searched for the drill head in the Bore 3 receiving pit Tuesday through Sunday (see Figures 2 and 3).
7. Vortex air lift operations in the Bore 3 receiving pit occurred Saturday and Sunday.
8. At the time of the CPUC EM site visit in the early afternoon on Thursday, December 4th, no drilling was occurring. Crews were waiting until around 4:30 p.m. to have divers from Vortex dive to locate the bore head in the receiving pit. The CPUC EM conducted another site visit a little after 4:30 p.m. and divers were in the water. Air was being forced through the bore head to assist in locating the bore head; however, they were unable to locate it.

Environmental Compliance:

1. PG&E's Environmental Inspector conducted monitoring of the work activities throughout the week, 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 CPUC EM noted an oil sheen on the wet pavement within the HDD North work area and informed the B&V Inspector, who requested that the crews clean it up. It was soaked up with oil absorbent diapers. All other observed work activities were in compliance with the mitigation measures (MMs), Applicant Proposed Measures (APMs), and other permit requirements.

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

1. Equipment was set up at Bore 2 on Monday.
2. Drilling started at Bore 2 on Tuesday and continued Thursday through Sunday (see Figure 4).
3. Crews drove casing at Bore 2 on Wednesday.
4. High density polyethylene (HDPE) pipe was fused together Monday, Tuesday, Thursday, and Friday.

5. Street sweeping occurred Monday through Sunday.
6. At the time of the CPUC EM site visit on Thursday, December 4, drilling was occurring and had proceeded approximately 200 feet.

Environmental Compliance:

1. PG&E's Environmental Inspector conducted monitoring of the work activities Monday through 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 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 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 holiday moratorium that is in place until January 1st.

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

1. Potholing for utilities occurred on Monday, Thursday, and Friday.
2. Street sweeping occurred Monday, Thursday, and Friday.
3. At the time of the CPUC EM site visit on Thursday, December 4, crews were cleaning up and getting ready to leave the site for the day.
4. No work occurred Tuesday, Wednesday, Saturday and Sunday.

Environmental Compliance:

1. Cultural monitoring was conducted on Monday, Thursday, and Friday.
2. Air Quality monitoring was conducted Monday, Thursday, and Friday.
3. PG&E's Environmental Inspector conducted monitoring of the work area and activities throughout the week, including SWPPP inspections.
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.

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. Dredging of rock and debris occurred Monday through Sunday.
- 2. At the time of the CPUC EM site visit Thursday, December 4, a barge was observed dredging off of Pier 50.

Environmental Compliance:

- 1. Herring monitoring was conducted on Monday through Sunday.
- 2. The PG&E’s Environmental Inspectors noted no compliance issues regarding this work.

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 Sunday at the yard.
- 2. Tailboard meetings occurred at the yard Monday, Tuesday, Thursday, and Friday.

Environmental Compliance:

- 1. PG&E’s Environmental Inspector conducted monitoring of the work area and activities throughout the week, 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 230 kV/115 kV connections across the Trans Bay Cable.

Table 1
Notice to Proceeds (NTPs)
(Updated 12/15/14)

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 230 kV/115 kV connections across the Trans Bay Cable.

NTP #1	Date Requested	Date Issued	Phase	Description
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 12/15/14)

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.

PROJECT PHOTOGRAPHS



Figure 1 – Demolition and excavation at Potrero Switchyard, View east, December 4, 2014.



Figure 2 – Vortex set-up at HDD North receiving pit. View east, December 4, 2014.

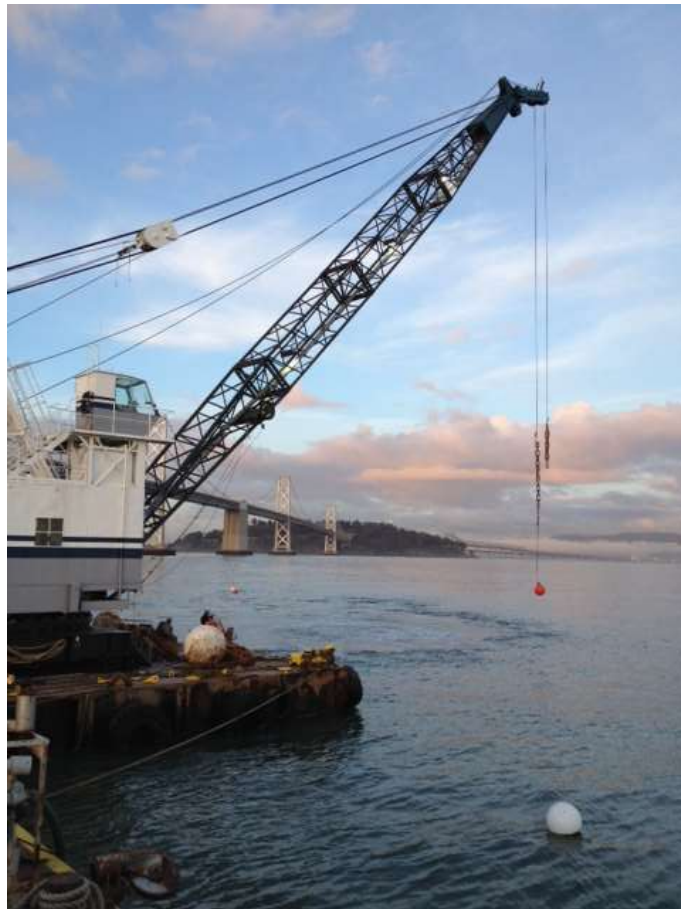


Figure 3 – Vortex divers trying to locate bore head. View northeast, December 4, 2014.



Figure 4 – HDD South operations. View west, December 4, 2014.