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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 22, 2015
Subject: Monitoring Report #18 – January 12, 2015 to January 18, 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 was on site January 15th.

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. Proven excavated to obtain bedrock depths on Monday.
2. Overaa conducted grading activities on Friday.
3. Proven and Griffin Soil conducted soil stabilization activities on Saturday.
4. Street sweeping occurred Monday, Friday and Saturday.
5. At the time of the CPUC EM site visit on Monday, January 15th, no construction activities were taking place.
6. No construction activities occurred Tuesday through Thursday, and Sunday.

Environmental Compliance:

1. Air quality monitoring was conducted Monday, Friday and Saturday.
2. Cultural monitoring was conducted on Monday and cultural constituents were observed, documented, and collected.
3. PG&E's Environmental Inspector conducted monitoring of this area Monday, Tuesday, Friday and Saturday, 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. The site was 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 Company drilled the pilot hole for Bore 2 Monday through Saturday.
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 Saturday.
5. Vortex installed directional coil wire on the boat near Pier 30/32 on Monday.
6. Vortex docked along Pier 30/32 for HDD Company to use directional coil on boat on Tuesday.
7. At the time of the CPUC EM site visit on Monday, January 15th, HDD Company was reaming pipe forward and had reached about 1000 feet.
8. No construction activities occurred on Sunday.

Environmental Compliance:

1. PG&E's Environmental Inspector conducted monitoring of the work area and activities Monday through Saturday, including SWPPP inspections and checking the drill path in the Bay for signs of drilling fluid release.
2. Herring monitoring was conducted Monday and Tuesday.
3. PG&E's Environmental Inspector noted no compliance issues at this location.
4. 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.

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

1. HDD Company excavated for the removal of casing at bore pits Monday through Saturday.
2. HDD Company welded casing Tuesday through Friday (see Figure 1).
3. HDD Company demobilized from the site Monday through Saturday.
4. Underground Construction Co. fused HDPE pipe Monday through Thursday.
5. Underground Construction Co. prepared for hydrotest on Thursday and hydrotested HDPE conduit on Friday (see Figure 2).
6. PSC cleaned roll-off bins on Wednesday.
7. Vortex air lifted drilling mud into scow from receiving pits on Wednesday.
8. Vortex removed directional coil wire Wednesday and Thursday.

9. Street sweeping occurred Monday through Saturday.
10. At the time of the CPUC EM site visit on Monday, January 15th, crews were demobilizing from the site and removing bore casings.
11. No construction activities occurred on Sunday.

Environmental Compliance:

1. PG&E's Environmental Inspector conducted monitoring of the work area and activities on Monday through Saturday, including SWPPP inspections.
2. Air quality monitoring was conducted by ERM Monday through Saturday.
3. Herring monitoring was conducted Wednesday and Thursday.
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 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. conducted duct bank excavation on Folsom Street Monday through Saturday.
2. Underground Construction Co. constructed rebar cages on Folsom Street Monday and Tuesday.
3. Underground Construction Co. pot-holed for utilities Tuesday through Friday.
4. Underground Construction Co. poured concrete at duct bank on Folsom Street Wednesday and Thursday (see Figure 3).
5. Underground Construction Co. excavated for the utility relocation on Spear Street Monday through Friday (see Figure 4).
6. Street sweeping occurred Monday through Saturday.
7. At the time of the CPUC EM site visit on Monday, January 15th, crews were pouring cement into trench along Folsom Street between Zeno Place and Beale Street, and pot-holing at the corner of Folsom Street and Main Street. At Spear Street, crews were conducting the utility relocation work.
8. No construction activities occurred on Sunday.

Environmental Compliance:

1. Cultural monitoring was conducted Monday through Saturday. Cultural constituents were observed January 12th, 13th, 16th, and 17th. These cultural constituents were documented and some collected.
2. PG&E's Environmental Inspector conducted monitoring of the work area and activities on Monday through Saturday, including SWPPP inspections.

3. PG&E's Environmental Inspectors noted no compliance issues at this location.
4. 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.

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

1. At the time of the CPUC EM site visit on Monday, January 15th, no work was being conducted.
2. No construction activities occurred Monday through Sunday.

Environmental Compliance:

1. Air quality monitoring was conducted Monday through Saturday in anticipation of underground duct bank work.
2. PG&E's Environmental Inspector conducted monitoring of the work area and activities on Monday, Tuesday, and Saturday, including SWPPP inspections.
3. PG&E's Environmental Inspectors noted no compliance issues at this location.
6. 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. 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 throughout the week at the yard.
2. Tailboard meetings occurred at the yard Monday through Saturday.
3. HDD Company staged at the yard on Monday, Tuesday, and Saturday (see Figure 5).
4. No construction activities occurred at the yard on Sunday.

Environmental Compliance:

1. PG&E’s Environmental Inspector conducted monitoring of the work area and activities Monday through Saturday, including SWPPP inspections.
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.

Notices to Proceed

Table 1 summarizes the Notices to Proceed (NTP) for the Embarcadero-Potrero Project.

Table 1
Notice to Proceeds (NTPs)
(Updated 01/22/15)

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 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.

Minor Project Changes

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

Table 2
Minor Project Changes (MPCs)
(Updated 01/22/15)

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 – Crews removing drill casing at HDD South. View east-northeast, January 15, 2015.



Figure 2 – HDPE pipe staged along 23rd Street for hydrotesting. View east, January 15, 2015.



Figure 3 – Pouring cement slurry in duct bank trench on Folsom Street. View south-southwest, January 15, 2015.



Figure 4 – Utility relocation work on Spear Street. View west-southwest, January 15, 2015.



Figure 5 – Staging equipment and materials at Amador Yard. View south, January 15, 2015.