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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 29, 2015
Subject: Monitoring Report #19 – January 19, 2015 to January 25, 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 22nd.

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. Overaa conducted exploratory hand excavation on Tuesday.
2. Farrell mobilized equipment and materials Tuesday and Wednesday.
3. Farrell conducted soil drill displacement column installation Thursday and Friday (see Figure 1).
4. Overaa conducted housekeeping activities on Friday.
5. PSC continued setup of water filtration system on Friday.
6. Street sweeping occurred Tuesday through Friday.
7. At the time of the CPUC EM site visit on Thursday, January 22nd, Farrell was conducting soil drill displacement column installations.
8. No construction activities occurred Monday, Saturday, or Sunday.

Environmental Compliance:

1. Air quality monitoring was conducted Tuesday, Thursday, and Friday.
2. Cultural monitoring was conducted on Tuesday, Thursday, and Friday. Cultural constituents were observed, documented, and collected on January 23rd.
3. PG&E's Environmental Inspector conducted monitoring of this area Tuesday through Friday, 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 continued drilling at Bore 2 Monday through Thursday.
2. HDD Company prepared for conduit pullback on Thursday.
3. HDD Company pulled HDPE conduit into Bore 2 on Friday.
4. HDD Company moved equipment and materials from Bore 2 to Bore 1 on Saturday.
5. 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.
6. An 8-foot-tall chain link fence with sound blankets are in place around the HDD equipment and work area.
7. Street sweeping occurred Monday through Saturday.
8. Vortex installed directional coil wire on the boat near Pier 30/32 on Tuesday.
9. Vortex confirmed the location of the conduit pullback drill head assembly in the Bore 2 receiving pit on Thursday (see Figure 2).
10. Vortex floated conduit from HDD South to HDD North and attached the conduit pipe to the drill head in the Bore 2 receiving pit on Friday.
11. Vortex fed the conduit into Bore 2 during the pull on Friday.
12. At the time of the CPUC EM site visit on Thursday, January 22nd, HDD Company was pushing the barrel reamer with swivel through the bore hole.
13. 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. PG&E night work sound monitoring occurred on Friday.
3. Herring monitoring was conducted Tuesday through Friday.
4. PG&E's Environmental Inspector noted a minor problem at this location on January 22nd regarding a small leak from a 2-ton truck. The PG&E Environmental Inspector recommended the truck be serviced or removed from the project. The truck was observed on site with secondary containment on January 23rd and 24th. The contractor was told again on January 23rd that it should be serviced or removed from the project.
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.

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

1. HDD Company cleaned casing and conducted housekeeping activities on Monday.
2. HDD Company demobilized from the site on Monday.
3. Staged temporary fencing was removed from around the HDD site on Tuesday.
4. Underground Construction Co. hydrotested HDPE conduit on Tuesday and fused HDPE conduit on Wednesday.
5. Underground Construction Co. conducted cleanup activities on Wednesday.
6. Underground Construction Co. conducted mandrel testing of HDPE conduit on Thursday.
7. Underground Construction Co. conducted some excavation at the east end of the underground on Thursday.
8. Underground Construction Co. helped Vortex move HDPE pipe from land to water on Friday.
9. Street sweeping occurred Monday through Friday.
10. At the time of the CPUC EM site visit on Thursday, January 22nd, crews were conducting some excavation of the underground segment at the east end.
11. No construction activities occurred on Saturday or 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 Tuesday through Friday.
3. Herring monitoring was conducted on Friday.
4. PG&E's Environmental Inspectors noted a minor problem at this location on January 20th–21st regarding approximately 50 gallons of sediment from the casing excavation stockpile was left onsite. The compliance issue was rectified on January 21st when Underground Construction Co. cleaned-up the sediment, applied water to keep the area wet, and surround off-pavement sediment with fiber rolls. On January 22nd – 23rd, another minor problem was noted at this location involving liquid leaking from a blue roll-off bin. The liquids were from the hydro-vac work at duct bank north and possible from other project areas. The PG&E EI was informed on January 23rd that the liquid from the bin had been vacuumed out that morning. A light leaking continued, but was contained by sand bags and a fiber roll and secondary containment was installed under the bins later in the day.
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 Tuesday through Saturday.
2. Underground Construction Co. saw cut pavement on Folsom Street on Friday.
3. Underground Construction Co. potholed for utilities on Folsom Street Tuesday through Thursday, and Saturday (see Figure 3).
4. Underground Construction Co. backfilled and paved the utility relocation trench on Spear Street on Tuesday.
5. Street sweeping occurred Tuesday through Saturday.
6. At the time of the CPUC EM site visit on Thursday, January 22nd, crews were hand-digging (pot-holing) around utilities at the corner of Folsom Street and Beale Street, driving shoring in the trench along Folsom Street, and installing waterline monitors at 21 locations along a 1932 15-inch waterline that supplies water to fire hydrants. On Spear Street, no construction was taking place and the area had been temporarily paved over.
7. No construction activities occurred on Monday or Sunday.

Environmental Compliance:

1. Cultural monitoring was conducted Tuesday through Saturday. Cultural constituents were observed, documented, and some collected on January 20th, 21st, 23rd, and 24th.
2. PG&E's Environmental Inspector conducted monitoring of the work area and activities on Tuesday through Friday, 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. Underground Construction Co. conducted saw cutting on Tuesday and pavement removal on Tuesday and Friday.
2. Underground Construction Co. conducted excavation of duct bank trench Tuesday through Friday (see Figure 4).
3. Underground Construction Co. conducted housekeeping activities on Wednesday.
4. Street sweeping occurred Monday through Friday.
5. At the time of the CPUC EM site visit on Thursday, January 22nd, crews were excavating the duct bank trench.
6. No construction activities occurred Monday, Saturday, or Sunday.

Environmental Compliance:

1. Cultural monitoring was conducted Tuesday through Friday. Potential cultural constituents were observed on January 23rd and will be further evaluated.
2. Air quality monitoring was conducted Tuesday through Friday.

3. PG&E's Environmental Inspector conducted monitoring of the work area and activities on Tuesday through Saturday, including SWPPP inspections.
4. 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 equipment and materials at the yard on Monday.
4. At the time of the CPUC EM site visit on Thursday, January 22nd, equipment and materials were staged and office trailers were in use.
5. 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 01/29/15)

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 01/29/15)

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 – Drill displacement columns being installed at Potrero Switchyard. View south, January 22, 2015.



Figure 2 – Vortex set-up at HDD North Pier 30/32. View east, January 22, 2015.



Figure 3 – Underground duct bank potholing on Folsom Street. View north, January 22, 2015.



Figure 4 – Underground duct bank excavation on 23rd Street. View east, January 22, 2015.