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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 23, 2014
Subject: Monitoring Report #14 – December 15 to December 21, 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 17th.

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 occurred Monday through Sunday and excavation activities occurred Monday through Friday (see Figure 1).
2. Breaking up of concrete occurred Monday through Wednesday.
3. Removal of rebar from concrete for recycling occurred Monday through Sunday.
4. The pre-treatment dewatering system was set up Monday and Tuesday.
5. Street sweeping occurred Monday through Sunday.
6. At the time of the CPUC EM site visit on Wednesday, December 17th, foundation demolition and excavation were occurring with the use of excavators. The area was being watered to keep the dust down.

Environmental Compliance:

1. Cultural monitoring was conducted Monday through Sunday. Cultural constituents were observed, documented, and collected on December 18th and 19th.
2. Air quality monitoring was conducted Monday through Sunday.
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. Vortex was on site Monday and Tuesday, but no work occurred due to bad weather.
2. Vortex removed the Bore 3 drilling assembly on Wednesday and attached the barrel HDPE pulling assembly on Wednesday and Thursday (see Figure 2).
3. Vortex connected the HDPE conduit to the drill head at Bore 3 receiving pit on Friday and Saturday.
4. Vortex floated the HDPE conduit from HDD South to HDD North on Friday.
5. The HDD pull-back of conduit at Bore 3 occurred on Saturday.
6. 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.
7. An 8-foot-tall chain link fence with sound blankets are in place around the HDD equipment and work area.
8. Street sweeping occurred Monday through Sunday.
9. At the time of the CPUC EM site visit on Wednesday, December 17th, no work was occurring.
10. No construction activities occurred on Monday and Sunday.

Environmental Compliance:

1. PG&E's Environmental Inspector conducted monitoring of the work activities throughout the week, including SWPPP inspections.
2. PG&E's Environmental Inspector noted an ongoing minor problem of a vacuum truck leaking oil on December 15, 20, and 21. The vehicle was not observed on site December 17 – 19. On December 21, the PG&E Environmental Inspector informed the PG&E Inspector that the vehicle was leaking and should be serviced or removed from the site. PG&E's Environmental Inspector noted no other compliance issues at this location.
3. Herring monitoring was conducted Monday through Friday.
4. The CPUC EM noted a petroleum spot on the ground near the spoils separator bins at HDD North. The PG&E Environmental Inspector also saw the spot and talked to crews about cleaning it up. 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. The HDPE pipe at HDD Bore 2 was cut and capped on Monday and drilling fluids were removed from the drill pit.
2. Casings were installed and augured at Bore 3 on Wednesday.
3. HDD drilling occurred at Bore 3 on Thursday, Friday, and Sunday.

4. HDPE pipe was fused on Wednesday and floated out for conduit pull at Bore 3 on Friday.
5. Street sweeping occurred Monday through Sunday.
6. At the time of the CPUC EM site visit on Wednesday, December 17th, crews were fusing HDPE conduit and were about to drive a 16-inch casing inside the 24-inch casing.

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. Herring monitoring was conducted Monday through Friday.
4. The CPUC EM noted a few small petroleum spots on the ground at HDD South. The PG&E Environmental Inspector also saw the spots and talked to crews about cleaning it up. All other 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 City holiday moratorium which is in place through January 1st.

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

1. Temporary fencing was installed on Tuesday and Wednesday.
2. Potholing for utilities occurred on Wednesday and Thursday (see Figure 3).
3. Removal of abandoned pipes identified via potholing occurred on Wednesday and Thursday.
4. Street sweeping occurred Tuesday through Thursday.
5. At the time of the CPUC EM site visit on Wednesday, December 17th, crews were potholing and removing old abandoned pipes.
6. No work activities occurred Monday, and Friday through Sunday.

Environmental Compliance:

1. Cultural monitoring was conducted on Wednesday and Thursday.
2. Air Quality monitoring was conducted Wednesday and Thursday.
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. Manson crews were onsite Monday, but no work occurred due to inclement weather.
2. Manson crews conducted dredging of rock and debris Tuesday through Thursday (see Figure 4).
3. At the time of the CPUC EM site visit on Wednesday, December 17th, Manson crews were observed dredging just southeast of Pier 30/32.
4. No work activities occurred on Monday, and Friday through Sunday.

Environmental Compliance:

1. The PG&E's Environmental Inspectors noted no compliance issues regarding this work.
2. Herring monitoring was conducted for these activities Tuesday through Thursday.
3. The CPUC EM noted that all observed work activities were in compliance with the mitigation measures (MMs), Applicant Proposed Measures (APMs), and other permit requirements.

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 through Friday.
3. No construction activities occurred at the yard on Saturday and Sunday.

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.
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. 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 12/23/14)

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 #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 12/23/14)

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 PHOTOS



Figure 1 – Foundation demolition and excavation at Potrero Switchyard. View south, December 17, 2014.



Figure 2 – Vortex at Bore 3 receiving pit at HDD North. View north, December 17, 2014.

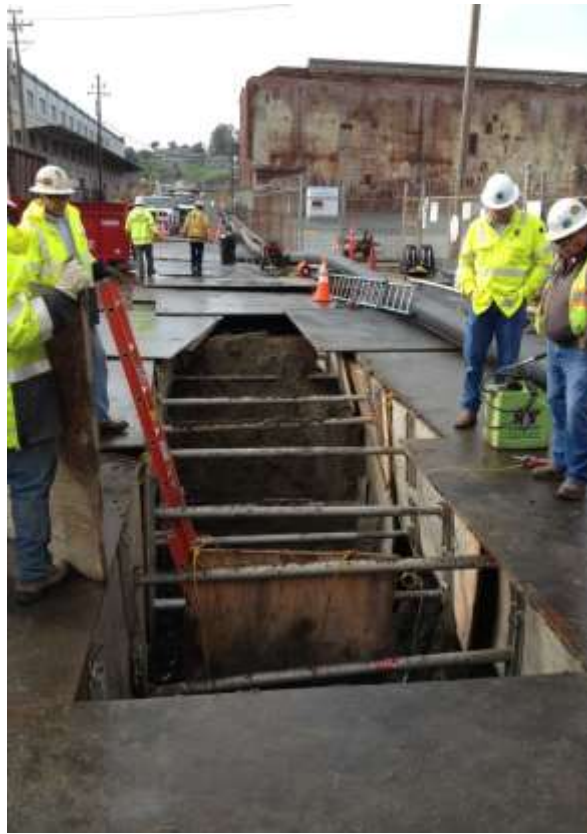


Figure 3 – Potholing for underground duct bank south. View west, December 17, 2014.



Figure 4 – Manson dredging just southeast of Pier 30/32. View southeast, December 17, 2014.