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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: February 19, 2015
Subject: Monitoring Report #22 – February 9, 2015 to February 15, 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 February 12th.

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 and PSC conducted dewatering of pooled rainwater into an onsite filtration system on Monday. PSC removed water from secondary containment units under the water filtration system into the system tanks on Tuesday and Friday, and repaired water filtration system containment units on Friday.
2. A1 Fence installed fencing along the sidewalk along 23rd Street on Monday.
3. Farrell laid rock and a rumble plate between the pavement and disturbed work area to minimize vehicle track-out on Monday and Tuesday.
4. Farrell conducted drill displacement column installation Tuesday through Friday.
5. Proven removed the sidewalk pavement along 23rd Street on Thursday and Friday.
6. Proven excavated beneath pavement to remove pipes on Thursday and Friday.
7. Overaa conducted dust control activities Tuesday through Friday.
8. Street sweeping occurred Monday through Friday.
9. At the time of the CPUC EM site visit on Thursday, February 12th, Farrell was conducting the drill displacement column installation (see Figure 1).
10. No construction activities occurred Saturday or Sunday.

Environmental Compliance:

1. Air quality monitoring was conducted Monday through Friday.
2. constituents were observed, documented, and collected.



3. PG&E's Environmental Inspector conducted monitoring of this area Monday through Friday, including SWPPP inspections.
4. Nesting bird surveys were conducted Wednesday and Friday.
5. 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 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 conducted drilling at Bore 1 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. At the time of the CPUC EM site visit on Thursday, February 12th, HDD Company was drilling at Bore 1 (see Figure 2).

Environmental Compliance:

1. PG&E's Environmental Inspector conducted monitoring of the work area and activities Monday through Sunday, including SWPPP inspections and checking the drill path in the Bay for signs of drilling fluid release.
2. Nesting bird surveys were conducted on Saturday.
3. PG&E's Environmental Inspector noted one occurrence at HDD North; approximately 2 cups of drilling fluid rhodamine dye was spilled. HDD Company crews immediately cleaned up the excess dye from the pavement.
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. All three of the Southern Bores have been completed.
2. Underground Construction Co. fused high density polyethylene conduit pipe Monday through Wednesday, and Friday.
3. HDD Company removed vegetation at the end of 23rd Street on Wednesday, and mulched and scattered cut vegetation on Friday and Saturday.

4. Vortex conducted post mud removal sonar surveys of the receiving pits on Wednesday.
5. At the time of the CPUC EM's site visit on Thursday, February 12th, crews were not working due to a safety stand-down.
6. No work activities occurred Thursday or Sunday.

Environmental Compliance:

1. Air quality monitoring was conducted Monday through Wednesday, and Friday.
2. PG&E's Environmental Inspector conducted monitoring of the work area and activities Monday through Sunday, 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.

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. installed BMPs at drainage inlets on Folsom Street on Monday.
2. Underground Construction Co. conducted excavation of duct bank trench on Folsom Street on Monday.
3. Underground Construction Co. removed sheet piles from the duct bank and backfilled the trench with sand and concrete on Folsom Street on Monday and Tuesday.
4. Underground Construction Co. conducted potholing on Folsom Street on Wednesday.
5. Underground Construction Co. installed monitoring point systems on Folsom Street Monday through Wednesday, and Friday.
6. Underground Construction Co. backfilled monitoring holes on Folsom Street on Monday and Tuesday.
7. Underground Construction Co. excavated for vault installation and installed shoring on Spear Street on Monday and Tuesday.
8. Underground Construction Co. hauled off excavated materials on Spear Street on Tuesday.
9. Street sweeping occurred Monday through Wednesday, and Friday.
10. At the time of the CPUC EM site visit on Thursday, February 12th, traffic controls were being set-up on Spear Street (see Figure 3). Underground Construction Co. crews were not working and on a safety stand-down due to one of the workers being struck by a car on Folsom Street the afternoon before.
11. No construction activities occurred on Thursday, Saturday, or Sunday.

Environmental Compliance:

1. Cultural monitoring was conducted Monday through Wednesday, and Friday. On February 9th, cultural constituents were observed and documented, but not collected.
2. PG&E's Environmental Inspector conducted monitoring of the work area and activities on Monday, Wednesday, Friday and Sunday, 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. excavated for utilities Monday, Tuesday, and Friday.
2. Underground Construction Co. backfilled the duct bank trench with sand and concrete slurry on Tuesday.
3. Underground Construction Co. removed shoring from duct bank trench on Wednesday.
4. Underground Construction Co. backfilled with slurry on Friday.
5. Underground Construction Co. conducted potholing on Friday.
6. Street sweeping occurred Monday through Wednesday, and Friday.
7. Fencing was installed around the open trench at the end of each day.
8. At the time of the CPUC EM site visit on Thursday, February 12th, no crews were working due to a safety stand-down.
9. No construction activities occurred Thursday, Saturday, or Sunday.

Environmental Compliance:

1. Cultural monitoring was conducted Monday through Wednesday, and Friday.
2. Air quality monitoring was conducted Monday through Wednesday, and Friday.
3. PG&E's Environmental Inspector conducted monitoring of the work area and activities on Monday through Wednesday, Friday, and Sunday, including SWPPP inspections.
4. Nesting bird surveys were conducted on Friday.
5. PG&E's Environmental Inspectors noted one occurrence at this location. A broken hydraulic hose coupling caused a spill estimated to be less than a quart of hydraulic fluid. The broken hose was fixed the same day prior to the truck leaving the site.
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:

- 5. 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 through Sunday at the yard.
- 2. Tailboard meetings occurred at the yard Monday through Friday.
- 3. Underground Construction Co. materials were delivered and staged at the yard on Monday.
- 4. At the time of the CPUC EM’s site visit on Thursday, February 12th, office trailer use and storage of materials and equipment was being conducted at the yard (see Figure 4).

Environmental Compliance:

- 1. PG&E’s Environmental Inspector conducted monitoring of the work area and activities Monday through Sunday, including SWPPP inspections.
- 2. Nesting bird surveys were conducted on Tuesday.
- 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.

Notices to Proceed

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

Table 1
Notice to Proceeds (NTPs)
 (Updated 02/19/15)

NTP #	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 #	Date Requested	Date Issued	Phase	Description
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 02/19/15)

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 – Potrero Switchyard, view southeast, February 12, 2015.



Figure 2 – HDD Company drilling at HDD North. View west, February 12, 2015.



Figure 3 – Traffic controls being set-up on Spear Street. View west, February 12, 2015.



Figure 4 – Staging of equipment and materials at the Amador Yard. View south, February 12, 2015.

