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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: March 19, 2015
Subject: Monitoring Report #26 – March 9, 2015 to March 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 March 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 conducted housekeeping and dust control activities Monday, Wednesday, Thursday, and Friday.
2. Overaa installed wire mesh on the NRG building awning to deter nesting birds on Thursday and Friday.
3. PSC conducted housekeeping and dust control activities Tuesday through Friday.
4. Proven conducted excavation activities Monday through Friday (see Figure 1).
5. Philip West Industrial Services hauled excavated soils to approved disposal facilities Monday through Friday.
6. Proven removed old pipe on Monday and Tuesday.
7. Street sweeping occurred Monday through Friday.
8. At the time of the CPUC EM site visit on Thursday, March 12th, excavation activities and off-haul of soil was done for the day as they have to end early because of distances to disposal facilities. Approximately 39 trucks of soil were off-hauled earlier in the day.
9. No construction activities occurred Saturday or Sunday.

Environmental Compliance:

1. Air quality monitoring was conducted Monday through Friday.
2. Cultural monitoring was conducted Monday through Friday. On March 9th – 12th, cultural constituents were observed, documented, and some collected.



3. PG&E's Environmental Inspector conducted monitoring of this area Monday through Friday, including SWPPP inspections.
4. Nesting bird surveys were conducted Monday, Wednesday, and Friday, and nesting bird sweeps were conducted Tuesday and Thursday. On March 9th, a house finch was observed displaying nesting behavior and building a nest within the NRG building. The nest location is only visible by looking through a 1 ft by 1 ft window in the brick wall of the NRG building. Due to the distance to the work site (30-40 feet), that construction is occurring, and that the brick wall of the NRG building acts as a visual and sound blind to the work site, no work buffer was recommended or set up.
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 demobilized equipment and materials Monday through Friday.
2. HDD Company removed steel casing from Bore 3 on Tuesday.
3. HDD Company conducted housekeeping activities Wednesday and Thursday.
4. 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.
5. An 8-foot-tall chain link fence with sound blankets are in place around the HDD equipment and work area.
6. Street sweeping occurred Monday through Friday.
7. At the time of the CPUC EM site visit on Thursday, March 12th, HDD Company was almost finished demobilizing from the site.
8. No work activities occurred on Saturday or Sunday.

Environmental Compliance:

1. Cultural monitoring was conducted Monday and Tuesday.
2. PG&E's Environmental Inspector conducted monitoring of the work area and activities Monday through Saturday, including SWPPP inspections.
3. Nesting bird surveys were conducted on Friday and nesting bird sweeps were conducted Monday through Saturday. On March 11th, an active Anna's hummingbird nest was found approximately 25-30 feet above the ground and overhangs the temporary work boundary fence 3 feet into the project area. The nest is located at least 200 feet from the HDD receiving pits/main work location. Over the life of the nest, the pavement beneath the nest has been consistently used for project parking and project foot and vehicle traffic. Also, high amounts of public foot traffic and noise occurs under the nest tree nearby on the Spear Street sidewalk. An approximate 12 ft by 30 ft buffer was set up under the nest using delineators and flagging so the nest would not be impacted.

4. PG&E's Environmental Inspector 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.

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

1. Street sweeping occurred Monday through Saturday.
2. At the time of the CPUC EM's site visit on Thursday, March 12th, no work activities were taking place.
3. No work activities occurred Monday through Sunday.

Environmental Compliance:

1. PG&E's Environmental Inspector conducted monitoring of the work area and activities Monday through Saturday, including SWPPP inspections.
2. Nesting bird sweeps were conducted Monday through Saturday.
3. PG&E's Environmental Inspectors noted an ongoing occurrence at HDD South during the subject week:
 - February 20th – March 2nd, a sediment bin staged on the south side of 23rd Street storing sediment excavated from Duct Bank North was leaking sediment laden water from the bin into secondary containment. On March 2nd, the PG&E Environmental Inspector noted that the leaking roll-off bin and damaged secondary containment unit was removed from the site.
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. conducted excavation of duct bank trench on Folsom Street Monday through Friday (see Figure 2).
2. Underground Construction Co. installed shoring in the duct bank trench on Folsom Street on Friday.
3. Underground Construction Co. potholed for utilities on Spear Street Monday through Thursday.
4. Underground Construction saw cut pavement on Spear Street on Wednesday.
5. Underground Construction Co. backfilled utility potholes with cement slurry on Spear Street on Friday.
6. Underground Construction Co. installed shoring in vault excavation on Spear Street on Monday.
7. Underground Construction Co. dewatered vault excavation on Spear Street Monday through Friday.
8. Underground Construction Co. poured the concrete foundation for the vault excavation on Spear Street Tuesday and Thursday (see Figure 3).

9. Underground Construction Co. welded shoring at the vault location on Spear Street on Friday.
10. Underground Construction Co. cut and welded beams at the vault location on Spear Street on Saturday.
11. Street sweeping occurred Monday through Saturday.
12. At the time of the CPUC EM site visit on Thursday, March 12th, crews were excavating and shoring the duct bank trench on Folsom Street between Main Street and Spear Street. On Spear Street, concrete was being poured for the vault foundation.
13. No construction activities occurred on Sunday.

Environmental Compliance:

1. Cultural monitoring was conducted Monday through Friday. On March 9th – 12th, cultural constituents were observed, 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. Nesting bird sweeps were conducted Monday through Saturday.
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.

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

1. Underground Construction Co. conducted duct bank excavation, installed shoring, and removed old pipe from the excavation on Monday.
2. Underground Construction backfilled duct bank excavations Monday through Thursday.
3. Underground Construction Co. poured concrete in the duct bank excavation on Thursday.
4. Underground Construction Co. potholed for utilities on Friday.
5. Underground Construction Co. removed asphalt for the duct bank trench on Saturday.
6. Underground Construction Co. excavated for a water line and installed new pipe Monday through Saturday (see Figure 4).
7. Street sweeping occurred Monday through Saturday.
8. Fencing was installed around the open trench at the end of each day.
9. At the time of the CPUC EM site visit on Thursday, March 12th, a crew was working on finishing the conduit extension to Bore 3, and another crew was working on the water line relocation.
10. No construction activities occurred on Sunday.

Environmental Compliance:

1. Cultural monitoring was conducted Monday through Saturday. On March 9th - 11th and 14th, cultural constituents were observed, documented, but not collected.
2. Air quality monitoring was conducted Monday through Saturday.
3. PG&E's Environmental Inspector conducted monitoring of the work area and activities on Monday through Saturday, including SWPPP inspections.

4. Nesting bird sweeps were conducted Monday through Saturday.
5. PG&E's Environmental Inspectors noted no compliance issues at this location. However, Underground Construction Co. struck and broke a water line during excavation. SFWD personnel were informed and they arrived on site and repaired the leak. Leaked water was contained within the excavation and either infiltrated into the soil or was pumped into a water truck, and then pumped into the water treatment system at the Potrero Switchyard. There was no outflow of water from the trench excavation.
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 Saturday at the yard.
2. Tailboard meetings occurred at the yard Monday through Saturday.
3. Clean Harbors removed a roll-off bin containing sediment for disposal on Friday.
4. At the time of the CPUC EM site visit on Thursday, March 12th, materials and equipment were being stored at the yard and the office trailers were in use.
5. No work 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. Nesting bird surveys were conducted on Monday, Wednesday and Friday, and nesting bird sweeps were conducted Tuesday, Thursday and Saturday.
3. 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.

Table 1
Notice to Proceeds (NTPs)
 (Updated 03/19/15)

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 #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 230kV/115kV connections across the Trans Bay Cable.
NTP #4	11/19/14	11/21/14	Subsea Cable	Rock and debris removal along subsea cable route.
NTP #5	2/19/15	Under Review	Potrero GIS Switchgear Building	Construction of 230 kV Potrero gas-insulated switchgear (GIS) building and cable tie-in component at Potrero Switchyard.
NTP #6	2/19/15	Under Review	Submarine Cable	Site preparation for submarine cable installation, laying the cable, and pulling the cable to land at either end.

Minor Project Changes

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

Table 2
Minor Project Changes (MPCs)
 (Updated 03/19/15)

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 – Excavation at Potrero Switchyard, view east, March 12, 2015.



Figure 2 – Excavating duct bank on Folsom Street. View north, March 12, 2015.



Figure 3 – Vault excavation on Spear Street. View east, March 12, 2015.



Figure 4 – Underground duct bank and water line relocation work on 23rd Street. View west, March 12, 2015.