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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: May 29, 2015
Subject: Monitoring Report #35 – May 11 to May 17, 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 May 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. Overaa conducted housekeeping and dust control activities Monday through Wednesday.
2. Overaa poured concrete to raise piles and installed forms on piles on Wednesday.
3. Proven loaded previously excavated/stockpiled materials into trucks on Monday and Tuesday.
4. PSC hauled off previously excavated/stockpiled materials for disposal on Monday and Tuesday.
5. Street sweeping occurred Monday through Wednesday.
6. At the time of the CPUC EM site visit on May 15th, no work was being conducted at the switchyard.
7. No construction activities occurred Friday through Sunday.

Environmental Compliance:

1. Air quality monitoring was conducted by ERM Monday through Wednesday.
2. PG&E's Environmental Inspector conducted monitoring of this area Monday through Thursday, including SWPPP inspections.
3. Nesting bird sweeps were conducted Monday through 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 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. The HDD work is complete and HDD Company demobilized from the site during Week #26.

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

1. The HDD work is complete and HDD Company demobilized from the site during Week #26.

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.):

Folsom Street, Night Work

1. Underground Construction Co. installed duct bank conduit on Monday.
2. Underground Construction Co. set up safety equipment on Tuesday.
3. Underground Construction Co. prepared a pit for laser installation on Tuesday and installed the laser on Wednesday.
4. Underground Construction Co. set the bore rig Wednesday through Friday.
5. At the time of the CPUC site visit in the afternoon of May 15th, no work was taking place on Folsom Street.
6. Street sweeping occurred Monday through Friday.
7. No construction activities occurred on Saturday and Sunday.

Spear Street, Duct Bank (between Folsom St and Harrison St)

1. Underground Construction Co. installed and fused duct bank conduit Monday through Thursday.
2. Underground Construction Co. wrapped the duct bank conduit on Thursday.
3. Underground Construction Co. backfilled the duct bank trench on Wednesday and Thursday.
4. Underground Construction Co. dewatered the duct bank trench on Friday.
5. Underground Construction Co. removed shoring from the duct bank trench on Friday (see Figure 1).
6. Underground Construction Co. routed mule tape into fiber optic HDPE conduit on Friday (see Figure 2).

7. Street sweeping occurred Monday through Friday.
8. At the time of the CPUC EM site visit on May 15th, crews were routing mule tape through the fiber optic HDPE conduit.
9. No construction activities occurred on Saturday and Sunday.

Spear Street, Duct Bank (between Harrison St and cul-de-sac)

1. Underground Construction Co. removed pavement on Wednesday.
2. Underground Construction Co. conducted minor excavation on Wednesday.
3. Clean Harbors hauled off excavated sediment for disposal on Wednesday.
4. At the time of the CPUC EM site visit on May 15th, no work was occurring at the Spear Street duct bank.
5. No construction activities occurred on Saturday and Sunday.

Spear Street, Vault

1. PSC dewatered the vault on Wednesday.
2. At the time of the CPUC EM site visit on May 15th, no work was being conducted at the vault.

Environmental Compliance:

1. Cultural monitoring was conducted Monday and Wednesday. On May 13th, a “paver stone feature” or Belgian blocks were observed, documented, but not collected. Further investigation is being done on this feature.
2. PG&E’s Environmental Inspector conducted monitoring of the work area and activities Monday through Friday, including SWPPP inspections.
3. Nesting bird sweeps were conducted Monday through Friday.
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):

23rd Street, Duct Bank

1. Underground Construction Co. fused duct bank conduit Monday and Tuesday.
2. Underground Construction Co. excavated the duct bank trench on Tuesday and Wednesday.
3. Underground Construction Co. installed shoring on Wednesday.
4. Underground Construction Co. installed duct bank conduit Monday through Friday (see Figure 3).
5. Underground Construction Co. laid plastic in the duct bank trench on Wednesday and Thursday, and laid base rock on Thursday.
6. Underground Construction Co. backfilled the duct bank trench with flowable thermal backfill (FTB) Wednesday through Friday (see Figure 4).
7. Underground Construction Co. set the fiber optic box/vault on Thursday.
8. Underground Construction Co. inserted the ground rod on Thursday.

9. Clean Harbors hauled off excavated materials Monday through Wednesday.
10. Street sweeping occurred Monday through Friday.
11. Fencing was installed around the open trench at the end of each day.
12. At the time of the CPUC EM site visit on May 15th, a crew was backfilling the duct bank trench on east side of vault with flowable thermal backfill (FTB), and another crew was installing HDPE conduit on the west side of the vault.
13. No construction activities occurred on Saturday or Sunday.

23rd Street, Vault

1. Underground Construction Co. applied mortar, grouted, and installed link seals in the vault on Wednesday.
2. Underground Construction Co. installed conduit in the vault on Thursday.
3. At the time of the CPUC site visit on May 15th, no construction activities were occurring at the vault.

Environmental Compliance:

1. Cultural monitoring was conducted by Far Western Monday through Wednesday, and cultural constituents were observed, documented, but not collected.
2. Air quality monitoring was conducted by ERM Monday through Friday.
3. PG&E's Environmental Inspector conducted monitoring of the work area and activities on Monday through Friday, including SWPPP inspections.
4. Nesting bird sweeps were conducted Monday through Friday.
5. PG&E's Environmental Inspectors noted a follow up on a compliance issue at this location. A Clean Harbors truck had a hydraulic hose break while handling roll off bins on May 5th. Approximately 25 gallons of fluid spilled on pavement, backfill trench dirt, and within a roll off bin secondary containment unit. All spill kit materials used for cleanup (e.g. kitty litter and oil absorbent rags), contaminated sediment, and the contaminated secondary containment unit were stored in 55 gallon drums and removed from the site for disposal by Clean Harbors. The truck was repaired onsite prior to removal. On May 6th, several areas were observed where oil was not sufficiently removed from the pavement. On May 7th, excess white oil absorbent powder was observed around the bin, and accumulating against the brick wall just south of the bin. Later that day, most of the powder was cleaned up with a shovel, but some was left onsite since it was difficult to clean up. CPUC EM requested additional cleanup of powder. On May 11th, the residual oil absorbent powder was no longer present. The powder was likely blown away by wind.
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 Monday through Friday at the yard.
2. Tailboard meetings occurred at the yard Monday through Friday.
3. Equipment and materials were stored at the yard throughout the week.
4. At the time of the CPUC site visit on May 15th, equipment and materials were being stored at the yard and the office trailers were in use.
5. No work occurred at the yard on Saturday and Sunday.

Environmental Compliance:

1. PG&E's Environmental Inspector conducted monitoring of the work area and activities Monday through Friday, including SWPPP inspections.
2. Nesting bird sweeps were conducted Monday through Friday. On May 11th, a dead Canada goose was observed in the retention pond in the northeast corner of the Amador Yard. The goose was not present on May 8th when the area was last inspected by the PG&E Environmental Inspector. The wood ramp previously installed in the pond to prevent wildlife entrapment was observed to still be present and functional.
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 05/29/15)

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 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.
NTP #5	2/19/15	3/27/15	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	4/07/15	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 05/29/15)

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 – Work at duct bank north on Spear Street. View east, May 15, 2015.



Figure 2 – Installing mule tape in fiber optic conduit on Spear Street. View north, May 15, 2015.



Figure 3 – Installed HDPE conduit on west side of vault on 23rd Street. View west, May 15, 2015.



Figure 4 – Backfilling with FTB in duct bank trench on east side of vault on 23rd St. View east, May 15, 2015.

