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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: October 19, 2015
Subject: Monitoring Report #56 – October 5 to October 11, 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 October 6th.

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. Site preparation activities have been completed and all work is now being conducted for the GIS building and cable tie-in work approved by the CPUC under NTP #5 (see below).

Environmental Compliance:

1. All environmental compliance monitoring will be reported below for the GIS building and cable tie-in work.

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, Duct Bank (day work)

1st Street and Fremont Street

1. Underground Construction Co. excavated using a Vac-truck Monday through Saturday.
2. Underground Construction Co. installed shoring on Monday, Tuesday, Thursday and Friday.
3. Underground Construction Co. prepared excavation for PG&E welding work on a gas pipeline on Friday.
4. Underground Construction Co. conducted street sweeping Monday through Sunday.
5. Clean Harbors hauled off excavated material for disposal Monday through Sunday.
6. At the time of the CPUC EM site visit on October 6th, Underground Construction Co. was excavating the trench with a Vac-truck in two locations (see Figure 1) and exposing a 16-inch gas pipeline that was installed in 1931 (see Figure 2).

Fremont and Beale Streets

7. Underground Construction Co. installed temporary paving on Monday.

Beale and Main Streets

8. Underground Construction Co. excavated trench on Monday, Tuesday, Thursday, Saturday and Sunday.
9. Underground Construction Co. installed shoring in the trench on Monday and Saturday.
10. Underground Construction Co. installed conduit pipe in the trench on Tuesday.
11. Underground Construction Co. dewatered the trench on Tuesday.
12. Underground Construction Co. pulled a mandrel through conduit on Wednesday.
13. Underground Construction Co. removed pavement on Friday and Saturday.
14. Underground Construction Co. potholed for sewer line installation on Friday.
15. Underground Construction Co. installed a temporary tie-in for the sewer line on Sunday.
16. Underground Construction Co. conducted street sweeping Monday through Sunday.
17. Clean Harbors hauled off excavated material for disposal Monday through Sunday.
18. At the time of the CPUC EM site visit on October 6th, a crew was excavating, potholing for utilities, and installing conduit at the Main Street intersection (see Figure 3).

Main and Spear Streets

19. No construction activities occurred between Main and Spear Streets during the week.

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

1. Spear Street has been paved and temporary striping applied.
2. Underground Construction Co. pulled a mandrel through conduit from the transition vault on Wednesday.

Spear Street, Vault

1. Underground Construction Co. worked in the vault and pulled a mandrel through conduit on Wednesday.

Environmental Compliance:

1. Cultural monitoring was conducted by Far Western Monday through Sunday. Cultural constituents were observed, documented and some collected October 5th through 11th.
2. PG&E's Environmental Inspector conducted monitoring of the work area and activities on Monday through Saturday, 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):

23rd Street, Duct Bank

1. Underground Construction Co. backfilled the duct bank trench with concrete on Monday.
2. Underground Construction Co. removed pavement on Monday.
3. Underground Construction Co. excavated trench Monday through Friday.
4. Underground Construction Co. conducted dust suppression Monday through Friday.
5. Underground Construction Co. conducted removal of steel pipe in the excavation on Friday.
6. Street sweeping was conducted Monday through Friday.
7. Clean Harbors/PSC managed spoils in roll-off bins Monday through Saturday.
8. At the time of the CPUC EM site visit on October 6th, a crew was excavating the duct bank trench (see Figure 4).
9. No construction activities occurred on Sunday.

23rd Street, Vault

1. No work was conducted in the vault during the week.

Environmental Compliance:

1. Cultural monitoring was conducted by Far Western Monday through Friday. Cultural constituents were observed, documented, and some collected on October 5th through 8th.
2. Air quality monitoring was conducted by ERM on 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. PG&E's Environmental Inspectors noted one ongoing compliance issue at this location: On October 5th, sediment spills were noted from Clean Harbors' roll-off bins as they are loaded for off-haul. The sediment is from a Badger vacuum truck excavating on Folsom Street at Duct Bank North. Spills are being cleaned up as they occur.
5. The CPUC EM noted where the spoils had spilled from the roll-off bin staged on 23rd Street (see Figure 5). Other than that, 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. All work activities related to NTP #4 have been completed.

Environmental Compliance:

1. No compliance monitoring was conducted.

E-P Potrero GIS Building and Cable Tie-in

NTP #5 was issued on March 27, 2015 for construction of the 230 kV Potrero gas-insulated switchgear (GIS) building and cable tie-in component of the Embarcadero-Potrero 230 kV Transmission Project at the Potrero Switchyard site, in the City San Francisco. NTP #5 included conditions that had to be satisfied prior to the start of construction.

Summary of Activity:

1. Office trailer use occurred Monday through Friday.
2. At the time of the CPUC EM site visit on October 6th, no work activities were taking place.
3. No work activities occurred during the week.

Environmental Compliance:

1. PG&E's Environmental Inspector conducted monitoring of this area Monday through Friday, 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.

E-P Submarine Cable Installation

NTP #6 was issued on April 7, 2015 for the submarine cable installation component of the Embarcadero-Potrero 230 kV Transmission Project in the San Francisco Bay. NTP #6 included conditions that had to be satisfied prior to the start of construction.

Summary of Activity:

- 1. All work activities for the submarine cable installation were completed during Week #50.

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 Sunday.
- 3. Equipment and materials were stored at the yard throughout the week.
- 4. Underground Construction Co. conducted dust control activities Monday through Sunday.
- 5. At the time of the CPUC EM site visit on October 6th, the office trailers were in use and equipment and materials were being stored at the yard.

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 10/19/15)

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 230 kV/115 kV connections across the Trans Bay Cable.

NTP #	Date Requested	Date Issued	Phase	Description
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.

Minor Project Changes

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

Table 2
Minor Project Changes (MPCs)
(Updated 10/19/15)

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 – Excavating the duct bank trench with a Vac-truck on Folsom Street just south of Fremont Street. View North, October 6, 2015.



Figure 2 – Exposing 16-inch gas pipeline just outside the Embarcadero Substation. View southeast, October 6, 2015.



Figure 3 – Excavating trench on Folsom Street at Main Street. View southwest, October 6, 2015.



Figure 4 – Excavating trench on 23rd Street. View west, October 6, 2015.



Figure 5 – Dried spoils spill from roll off bin on 23rd Street. View north, October 6, 2015.