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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: September 15, 2015
Subject: Monitoring Report #51 – August 31 to September 6, 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 September 1st.

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)

1. Underground Construction Co. excavated and installed shoring between Fremont and Beale Streets on Monday and Tuesday.
2. Underground Construction Co. installed rebar between Fremont and Beale Streets on Wednesday and tied rebar on Thursday and Friday.
3. Underground Construction installed conduit pipe between Fremont and Beale Streets on Thursday and Friday.
4. Underground Construction Co. excavated duct bank trench between Beale and Main Streets Monday through Wednesday.
5. Underground Construction Co. potholed for utilities between Beale and Main Streets on Monday.
6. Underground Construction Co. removed pavement between Beale and Main Streets on Monday.
7. Underground Construction Co. installed shoring between Beale and Main Streets Monday through Friday.
8. Underground Construction Co. paved with cutback between Beale and Main Streets on Tuesday.
9. Underground Construction Co. saw cut pavement between Beale and Main Streets on Thursday.
10. Underground Construction Co. backfilled the duct bank trench with concrete between Main and Spear Streets on Monday and Wednesday.
11. Underground Construction Co. removed pavement between Main and Spear Streets on Monday and Tuesday.
12. Underground Construction Co. saw cut pavement between Main and Spear Streets on Tuesday.
13. Underground Construction Co. potholed for utilities between Main and Spear Streets on Tuesday.
14. Underground Construction Co. installed shoring between Main and Spear Streets on Wednesday.
15. Underground Construction Co. excavated the duct bank trench between Main and Spear Streets on Tuesday and Thursday.
16. Underground Construction Co. installed rebar between Main and Spear Streets on Friday.
17. Underground Construction Co. installed base rock between Main and Spear Streets on Friday.
18. Underground Construction Co. conducted housekeeping Monday through Friday.
19. Clean Harbors hauled off excavated material Monday through Friday.
20. At the time of the CPUC site visit on September 1st, a crew was excavating between Fremont and Beale Streets (see Figure 1), a second crew was installing shoring between Beale and Main Streets (see Figure 2), and a third crew was excavating between Main and Spear Streets (see Figure 3).
21. Street sweeping occurred Monday through Friday.
22. No construction activities occurred on Saturday or Sunday.

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

1. Spear Street has been paved and temporary striping applied (see Figure 4).

Spear Street, Vault

1. No work occurred at the vault during the week.

Environmental Compliance:

1. Cultural monitoring was conducted by Far Western Monday through Friday. August 31 through September 3, 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 Friday, including SWPPP inspections.
3. Nesting bird sweeps were conducted on Monday.
4. PG&E's Environmental Inspectors noted no compliance issue 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. constructed walls inside the Station A water circulation vault feature within the duct bank trench on Monday.
2. Underground Construction Co. poured concrete for the duct bank trench floor on Monday and backfilled with gravel on Wednesday.
3. Underground Construction Co. installed rebar in the duct bank trench on Wednesday and tied rebar on Thursday and Friday.
4. Underground Construction Co. excavated the duct bank trench on Thursday and Friday.
5. Street sweeping was conducted Monday, and Wednesday through Friday.
6. At the time of the CPUC EM site visit on September 1st, no crews were observed working.
7. No construction activities occurred on Tuesday, Saturday or Sunday.

23rd Street, Vault

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

23rd Street, Water Line Relocation

1. No work was conducted for the water line relocation during the week.

Environmental Compliance:

1. Cultural monitoring was conducted by Far Western Monday, and Wednesday through Friday. On August 31st and September 2nd, cultural constituents were observed and documented.
2. Air quality monitoring was conducted by ERM on Monday, and Wednesday through Friday.
3. PG&E's Environmental Inspector conducted monitoring of the work area and activities on Monday, and Wednesday through Friday, including SWPPP inspections.

4. Nesting bird sweeps were conducted on Monday.
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 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. Overaa conducted housekeeping activities and dust control Monday through Wednesday.
2. Overaa received and unloaded a delivery of grout on Monday.
3. Office trailer use occurred Monday through Wednesday.
4. At the time of the CPUC EM site visit on September 1st, no work activities were taking place (see Figure 5).
5. No work activities occurred Thursday through Sunday.

Environmental Compliance:

1. Air quality monitoring was conducted by ERM on Monday.
2. PG&E's Environmental Inspector conducted monitoring of this area Monday through Wednesday, including SWPPP inspections.
3. Nesting bird sweeps were conducted on Monday.
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 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 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 site visit on September 1st, 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 or 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 on Monday.
3. PG&E's Environmental Inspectors noted no compliance issue 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 09/15/15)

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.
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 09/15/15)

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 duct bank trench on Folsom Street between Fremont and Beale Streets. View north, September 1, 2015.



Figure 2 – Installing shoring in duct bank trench on Folsom Street between Beale and Main Streets. View southwest, September 1, 2015.



Figure 3 – Excavating duct bank trench on Folsom Street between Main and Spear Streets. View west, September 1, 2015.



Figure 4 – Spear Street paved and temporarily striped. View west, September 1, 2015.



Figure 5 – Potrero Switchyard GIS building foundation concrete pad. View north, September 1, 2015.