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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: November 5, 2015
Subject: Monitoring Report #59 – October 26 to November 1, 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 29th.

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.):

1st Street and Fremont Street

1. Underground Construction Co. conducted housekeeping on Monday.
2. Underground Construction Co. laid fabric in the trench and backfilled with sand on Monday.
3. Underground Construction Co. backfilled with concrete Monday through Friday.
4. Underground Construction Co. cut and removed pavement on Tuesday.
5. Underground Construction Co. installed a thermal coupler on Wednesday.
6. Underground Construction Co. mandreled the conduit pipe on Thursday and Friday.
7. Underground Construction Co. removed shoring on Thursday and Friday.
8. Underground Construction Co. conducted street sweeping Monday through Friday.
9. At the time of the CPUC EM site visit on October 29th, a crew was removing shoring and preparing to backfill with cement later in the day (see Figure 1).
10. No work activities occurred on Saturday or Sunday.

Fremont and Beale Streets

11. Annuzzi jackhammered, removed pavement, and poured concrete for sidewalk restoration on Tuesday and Wednesday.

Beale and Main Streets

12. Underground Construction Co. removed shoring on Monday through Wednesday, and Friday.
13. Underground Construction Co. backfilled with concrete Monday through Wednesday, and Friday.
14. Underground Construction Co. conducted temporary paving on Thursday.
15. Underground Construction Co. mandreled conduit pipe on Friday.
16. Underground Construction Co. jackhammered pavement on Friday.
17. At the time of the CPUC EM site visit on October 29th, a crew was paving between Beale and Main Streets (see Figure 2).
18. No work activities occurred on Saturday or Sunday.

Main and Spear Streets

19. Underground Construction Co. backfilled with concrete on Monday.

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

1. Spear Street has been paved and temporary striping applied.
2. No work activities occurred on Spear Street during the week.

Spear Street, Vault

1. No work activities occurred at the vault on Spear Street during the week.

Environmental Compliance:

1. PG&E's Environmental Inspector conducted monitoring of the work area and activities on 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.

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

23rd Street, Duct Bank

1. Underground Construction Co. removed shoring from the trench on Tuesday.
2. Underground Construction Co. backfilled the trench with concrete on Tuesday.
3. Underground Construction Co. saw cut pavement on Thursday.
4. Street sweeping was conducted Monday and Thursday.
5. Clean Harbors/PSC managed spoils in roll-off bins on Tuesday.
6. At the time of the CPUC EM site visit on October 29th, no crews were observed working.
7. No construction activities occurred on Monday, Wednesday, and Friday through Sunday.

23rd Street, Vault

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

Environmental Compliance:

1. Air quality monitoring was conducted by ERM Monday through Friday.
2. PG&E's Environmental Inspector conducted monitoring of the work area and activities Monday through Friday, including SWPPP inspections.
3. PG&E's Environmental Inspectors noted two compliance issues at this location:
 - From October 5th to date, 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. On October 28th, it was observed that the residual soil was cleaned up.
 - On October 30th, the PG&E Environmental Inspector observed approximately 4 – 5 gallons of cement slurry dried on the pavement around the T-cut conducted the previous day by Underground Construction Co. The PG&E Environmental Inspector recommended that it be vacuumed up or sprayed with water into the concrete filled trench prior to the forecasted rain event the following day.
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 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. ABB set up the new office trailer on Monday.
3. CCE conducted electrical wiring of trailers on Tuesday.
4. Overaa conducted housekeeping and dust control activities Monday through Friday.
5. Overaa aided Sheedy with wall panel installation Monday through Friday.
6. Overaa grouted sleeves and wall panel bottoms on Thursday and Friday.
7. Mid State grouted and welded wall panels to the foundation Monday through Friday.
8. Mid State removed panel wall supports on Wednesday.
9. APEC and CCE excavated to expose bus foundations and conduit pipe in the adjacent substation Monday through Friday.
10. APEC and CCE demolished metal bus structures and removed conduit pipe in adjacent substation Monday through Friday.
11. APEC and CCE conducted dust control activities in the substation Wednesday through Friday.
12. PSC cleaned and removed water filtration equipment Wednesday through Friday.
13. At the time of the CPUC EM site visit on October 29th, crews were setting the wall panels for the GIS building with a crane (see Figures 3 & 4), and excavating foundations in the adjacent substation (see Figure 5).

Environmental Compliance:

1. Cultural monitoring was conducted by Far Western Wednesday through Friday and cultural constituents were observed, documented, and some collected October 28th through October 30th.
2. Air quality monitoring was conducted by ERM Monday through Friday.

3. PG&E's Environmental Inspector conducted monitoring of this area Monday through Friday, including SWPPP inspections.
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. Underground Construction Co. conducted dust control activities Monday through Friday.
5. Underground Construction Co. removed materials from trailers in preparation for haul off on Tuesday.
6. At the time of the CPUC EM site visit on October 29th, the office trailers were in use and equipment and materials were being stored at the yard.
7. No work activities 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. 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 11/05/15)

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.

Minor Project Changes

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

Table 2
Minor Project Changes (MPCs)
 (Updated 11/05/15)

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 –Removing shoring on Folsom in front of the Embarcadero Substation. View southwest, October 29, 2015.



Figure 2 – Paving on Folsom Street at Main Street. View southwest, October 29, 2015.



Figure 3 – GIS building wall panels being set by crane at Potrero Switchyard. View northwest, October 29, 2015.



Figure 4 – Crane setting GIS building wall panels at Potrero Switchyard. View east, October 29, 2015.



Figure 5 – Crews excavating foundations in substation adjacent to Potrero Switchyard. View west, October 29, 2015.