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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 24, 2015
Subject: Monitoring Report #61 – November 9 to November 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

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. backfilled the duct bank trench with concrete on Monday and Tuesday (see Figure 1).
2. Underground Construction Co. removed concrete from boards on Tuesday.
3. Underground Construction Co. removed pavement on Thursday.
4. Underground Construction Co. excavated in backfill on Thursday.
5. Underground Construction Co. inserted plastic pipe to push on a stuck mandrel in the conduit pipe on Thursday.
6. Underground Construction Co. removed all cut back and trench plates from the site on Friday.
7. Underground Construction Co. conducted housekeeping activities on Friday.
8. Underground Construction Co. conducted temporary paving with hot asphalt on Friday and Saturday.
9. Underground Construction Co. mandreled and swabbed conduit pipe on Friday.
10. Underground Construction Co. conducted street sweeping Monday and Tuesday, and Thursday through Saturday.
11. No work activities occurred on Wednesday or Sunday.

Fremont and Beale Streets

12. Underground Construction Co. conducted temporary paving with hot asphalt on Saturday.
13. No work activities occurred on Monday through Friday, or Sunday.

Beale and Main Streets

14. No work activities occurred Monday through Sunday.

Main and Spear Streets

15. No work activities occurred Monday through Sunday.

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

1. Spear Street has been paved and temporary striping applied.
2. Underground Construction Co. removed stuck mule tape in conduit pipe from inside the transition vault on Thursday and Friday.
3. Underground Construction Co. mandreled and swabbed conduit pipe on Friday.
4. No work activities occurred Monday through Wednesday, and Saturday or Sunday.

Environmental Compliance:

1. PG&E's Environmental Inspector conducted monitoring of the work area and activities Monday, Tuesday, Thursday and Friday, including SWPPP inspections.
2. PG&E's Environmental Inspectors noted no compliance issues at this location.

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

23rd Street, Duct Bank

1. Clean Harbors/PSC removed roll-off bins for sediment disposal on Monday.
2. Underground Construction Co. saw cut pavement on Monday.
3. Underground Construction Co. painted the inside of the transition vault on Tuesday.
4. Underground Construction Co. removed pavement and excavated for fire hydrant restoration on Thursday and Friday.
5. Underground Construction Co. backfilled with concrete on Friday.
6. Underground Construction Co. removed materials and equipment on Friday.
7. Underground Construction Co. conducted housekeeping activities on Friday.
8. Underground Construction Co. moved pipe into Panel 4 of the GIS building in the Potrero Switchyard on Thursday (see Figure 2).
9. Underground Construction Co. installed plastic around pipe conduit in the Potrero Switchyard on Thursday.
10. PSC conducted cleanup activities of spilled mud around roll-off bins on Friday.
11. No work activities occurred on Wednesday, Saturday or 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, Tuesday, Thursday, and Friday.
2. Cultural monitoring was conducted by Far Western Thursday and Friday, and cultural constituents were observed, documented, and some collected November 12th and 13th.
3. PG&E's Environmental Inspector conducted monitoring of the work area and activities Monday, Tuesday, Thursday, and Friday, including SWPPP inspections.
4. PG&E's Environmental Inspectors noted one compliance issue at this location. The afternoon of November 12th, during the repositioning of two roll-off bins, Clean Harbors spilled approximately 50 gallons of mud from the binds onto the pavement. The spill was localized around the bins and no mud ran into the drainage inlets or within 100 feet of the Bay. PSC put the dirty water from the cleanup efforts back into roll-off bins for disposal. Due to the cleanup efforts on November 12th and 13th, the issue was rectified (see Figure 3).

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. Clean Harbors removed full roll-off bins for sediment disposal and delivered/staged empty bins on Monday, Tuesday, and Thursday.
3. Overaa conducted housekeeping and dust control activities Monday through Friday.
4. Overaa aided Metal Set in welding and grouting Monday through Friday (see Figure 4).
5. Overaa aided Sheedy in crane dismantling and removal on Tuesday.
6. Overaa aided APEC in ramp removal and construction on Friday.
7. Metal Set delivered, unloaded, and staged materials on Monday, Tuesday, and Thursday.
8. APEC excavated to expose and demolish concrete foundations in the adjacent substation Monday, Tuesday, Thursday, and Friday.
9. APEC conducted dust control activities in the adjacent substation on Monday, Tuesday, Thursday, and Friday.
10. APEC delivered, unloaded and staged materials in the adjacent substation on Monday, Tuesday, Thursday, and Friday.
11. APEC marked new infrastructure locations in the adjacent substation on Tuesday.
12. APEC hauled off concrete for disposal from the adjacent substation on Tuesday.
13. APEC removed the old access and constructed a new ramp into the unpaved GIS building work area in the switchyard on Friday.
14. No work activities occurred on Saturday or Sunday.

Environmental Compliance:

1. Cultural monitoring was conducted by Far Western Monday, Tuesday, Thursday, and Friday, and cultural constituents were observed, documented, and some collected November 9th, 10th, 12th, and 13th.
2. Air quality monitoring was conducted by ERM Monday, Tuesday, Thursday, and Friday.
3. PG&E's Environmental Inspector conducted monitoring of this area Monday, Tuesday, Thursday, and Friday, including SWPPP inspections.
4. PG&E's Environmental Inspectors noted no compliance issues at this location.

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, Tuesday, and Thursday through Saturday at the yard.
2. Tailboard meetings occurred at the yard Monday, Tuesday, and Thursday through Saturday.
3. Equipment and materials were stored at the yard throughout the week.
4. Underground Construction Co. prepared materials for removal Monday, Tuesday, and Thursday through Saturday
5. Underground Construction Co. conducted dust control activities Monday, Tuesday, and Thursday through Saturday.
6. No work activities occurred at the yard on Wednesday or Sunday.

Environmental Compliance:

1. PG&E's Environmental Inspector conducted monitoring of the work area and activities Monday, Tuesday, Thursday, and Friday, including SWPPP inspections.
2. 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 11/24/15)

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 #	Date Requested	Date Issued	Phase	Description
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 11/24/15)

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 – Backfilling trench with concrete on Folsom Street in front of Embarcadero Substation. View southwest, November 10, 2015. Photo courtesy of PG&E.

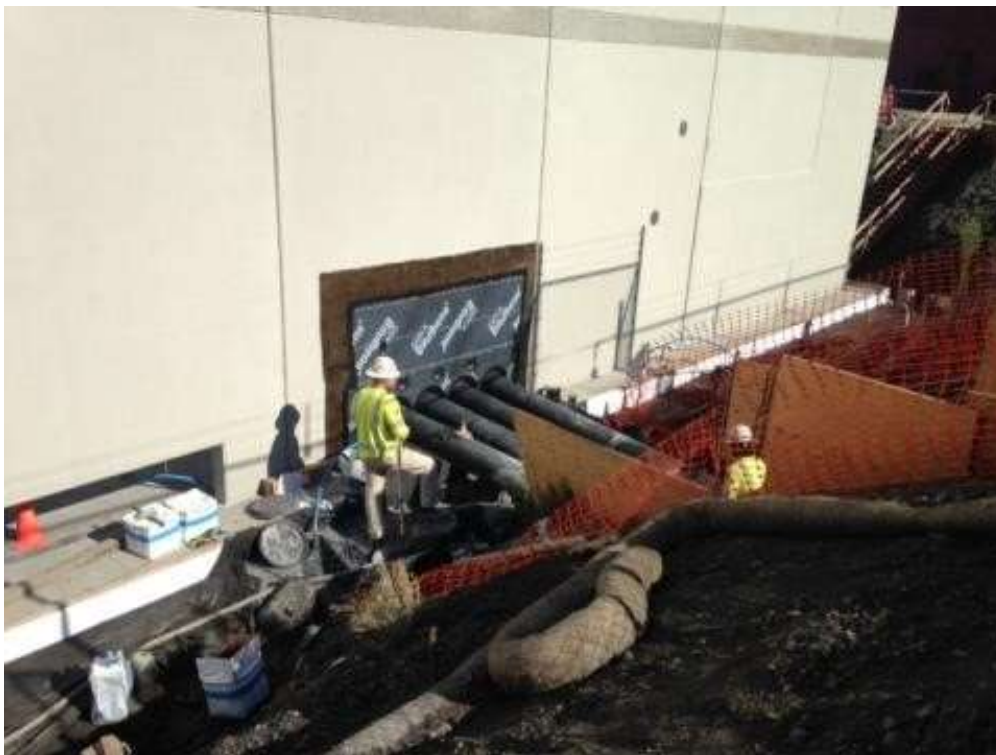


Figure 2 – Installing conduit pipe in GIS Building Panel 4 in the Potrero Switchyard. View northeast, November 12, 2015. Photo courtesy of PG&E.



Figure 3 – PSC cleaning up spill from roll-off bins on 23rd Street. View east, November 13, 2015. Photo courtesy of PG&E.



Figure 4 – Inside GIS Building at the Potrero Switchyard. View northeast, November 9, 2015. Photo courtesy of PG&E.