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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: January 14, 2016
Subject: Monitoring Report #68 – January 4, 2016 to January 10, 2016

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 January 7th.

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

1. All work activities have been completed at this location.

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

1. Underground Construction Co. stenciled within the transition vault Monday through Wednesday.
2. Underground Construction Co. installed a ladder in the transition vault on Monday.
3. At the time of the CPUC EM site visit, no work was taking place within the transition vault.
4. No work was conducted Thursday through Sunday.

Environmental Compliance:

1. PG&E's Environmental Inspector conducted monitoring of the work area and activities Monday through Wednesday, 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 and Vault

1. Underground Construction Co. stenciled in the transition vault on Monday and Tuesday.
2. Underground Construction Co. installed a ladder in the transition vault on Monday.
3. Underground Construction Co. removed BMPs and conducted housekeeping on Monday and Tuesday.
4. Underground Construction Co. fixed a fence post on Wednesday.
5. At the time of the CPUC EM site visit on January 7th, no work was taking place. The CPUC EM noted that BMPs had been removed and bare ground stabilized (see Figure 1).
6. No work was conducted Thursday through Sunday.

Environmental Compliance:

1. PG&E's Environmental Inspector conducted monitoring of the work area and activities Monday through Thursday, 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.

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:

Potrero Switchyard

1. Office trailer use occurred Monday through Friday.
2. Overaa conducted housekeeping and dust control activities Monday through Friday.
3. Overaa aided other work crews Monday through Friday.
4. Overaa conducted grouting on Monday and chipped concrete on Tuesday.
5. Overaa conducted GIS building stair repair Tuesday through Friday.
6. B.T. Mancini installed pan decking in the GIS building Monday through Friday.
7. APEC removed concrete forms (wood) from the reactor pad on Monday, Tuesday, and Thursday.
8. APEC excavated to remove a concrete block foundation on Tuesday and Thursday.
9. Clean Harbors removed full roll off bins for sediment disposal on Monday and Tuesday.
10. At the time of the CPUC EM site visit on January 7th, crews were excavating around an old foundation for removal, stripping forms from reactor pad, and welding in the GIS building (see Figures 2 – 4).
11. No work activities occurred on Saturday or Sunday.

Substation Adjacent to Potrero Switchyard

1. Contra Costa Electric QEW monitored work in the substation on Monday, Tuesday, Thursday, and Friday.
2. APEC excavated, installed conduit, and installed grounding cable on Monday, Tuesday, Thursday, and Friday.
3. APEC conducted dust control activities Monday, Tuesday, Thursday, and Friday.
4. CCE delivered and unloaded materials on Wednesday.
5. At the time of the CPUC EM site visit on January 7th, a small crew was working on foundations and conduit in the substation.

6. No work activities occurred on Saturday or Sunday.

Environmental Compliance:

1. Cultural monitoring was conducted by Far Western Monday, Tuesday, Thursday, and Friday, at which time cultural constituents were observed, documented, and some collected.
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 through Friday, including SWPPP inspections.
4. PG&E's Environmental Inspectors noted three compliance issues at this location.
 - Litter and open trash containers were observed in the vicinity of the Overaa trailer and the Switchyard between December 30th and January 7th. The issues were rectified; the litter and open containers were removed or disposed of.
 - On January 5th, the generator being used by APEC in digging activities to remove the concrete block in the southwest corner of the yard near the 23rd Street gate did not have secondary containment. The PG&E Environmental Inspector recommended installing a secondary containment tray under the generator. On January 6th, the generator was not in use and stored in a closed work storage trailer; the issue is rectified.
 - On January 8th, The PG&E Environmental Inspector observed an oily sheen on puddled water near the porta-potties adjacent to the Overaa trailer. The PG&E Environmental Inspector estimated that less than 1 cup of oil was spilled. PG&E directed Overaa to clean up the oil using oil-absorbent pads and kitty litter, and also to place used spill kit materials into designated onsite 55-gallon hazardous waste storage drums. Prior to leaving the site, the PG&E Environmental Inspector observed that oil-absorbent pads had been placed over the entire spill area. Later in the afternoon, the PG&E Environmental Inspector confirmed that the oil had been adequately cleaned up. The use has been rectified.
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. All remaining materials were removed on December 7th and the yard has been turned back over to the Port of San Francisco.

Environmental Compliance:

1. No compliance monitoring was conducted.

Notices to Proceed

Table 1 summarizes the Notices to Proceed (NTP) for the Embarcadero-Potrero Project.

Table 1
Notice to Proceeds (NTPs)
 (Updated 1/14/16)

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 1/14/16)

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 on 23rd Street has been completed, BMPs removed, and bare ground stabilized. View west, January 7, 2016.



Figure 2 – Crew excavating around old foundation for removal within Switchyard. View south, January 7, 2016.



Figure 3 – Crews working on removing forms from reactor pad in Switchyard. View southeast, January 7, 2016.



Figure 4 – Stormwater draining well around GIS building in Switchyard. View southeast, January 7, 2016.