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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: July 21, 2016
Subject: Monitoring Report #95 – July 11, 2016 to July 17, 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 July 12th

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. Sumitomo and NRE swabbed conduit from inside the transition vault on Spear Street Monday through Wednesday (see Figure 1).
2. Sumitomo and NRE pulled cable in the transition vault Thursday through Saturday.
3. At the time of the CPUC EM site visit on July 12th, crews were preparing to pull cable in the transition vault.

Environmental Compliance:

1. PG&E's Environmental Inspector (EI) conducted monitoring of this area on Monday and Thursday, including SWPPP inspections and nesting bird sweeps. No biological finds were noted.
2. PG&E's EI noted one housekeeping or compliance issues at this location.
 - On July 11th, no BMPs were protecting the drainage inlets. The PG&E EI recommended that BMPs (e.g. filter fabric, sand/rock bags, etc.) be installed on the east side of the street in the curb gutter north and south of where vehicles and equipment were staged, and on/around drainage inlets within the work area. On July 14th, the PG&E EI observed that the issue was rectified.
3. The CPUC EM observed that one of the drainage inlets had BMPs installed, but that one needed BMPs, and was informed that BMPs would be installed later that day at the drainage inlet noted. Other than that, the CPUC EM observed that the site was neat and clean and all observed work activities were in compliance with mitigation measures (MMs), and Applicant Proposed Measures (APMs), and other permit requirements.

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

23rd Street, Duct Bank and Vault

1. APEC excavated for the water and sewer line tie-in Monday through Saturday (see Figure 2).
2. Sumitomo and NRE staged equipment and vehicles Monday through Saturday in preparation for the transition vaults pulling of conductor cable, which will commence after the cable is pulled from Embarcadero Substation and the Spear Street transition vault.
3. At the time of the CPUC EM site visit on July 12th, APEC was working on the water and sewer tie-in on 23rd Street.

Environmental Compliance:

1. PG&E's Environmental Inspector (EI) conducted monitoring of this area on Monday and Thursday, including SWPPP inspections and nesting bird sweeps. No biological finds were noted.
2. Cultural monitoring was conducted by Far Western Monday through Saturday and cultural constituents were observed.
3. PG&E's EI noted one housekeeping or compliance issues at this location.
 - On July 11th, cable pulling lubricant was staged on the road without secondary containment. The area is accessible to the public and no personnel was on site at that time to monitor the materials. The PG&E EI recommended that the materials be locked away (in a connex box or similar) when not in use or when personnel are not on site, especially if materials are left overnight. On July 14th, the PG&E EI observed the issue was rectified.
4. The CPUC EM observed that the site was neat and clean, and that SWPPP measures were in place. All observed work activities were in compliance with the MMs and APMs, and other permit requirements.

E-P Submarine Rock and Debris Removal

NTP #4 was issued on November 21, 2014 for the removal of rock 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 necessary at this location.

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 Sunday.
2. Overaa aided other work crews and conducted housekeeping and dust control activities Monday through Saturday.
3. Overaa poured concrete for the perimeter wall on Monday, and installed rebar and forms in the excavation Monday through Thursday (see Figure 3).
4. MEI conducted electrical work in the GIS building Monday through Sunday.
5. Mitchell conducted plumbing in the GIS building Monday through Sunday.
6. SSI installed scaffolding in the GIS building Monday through Friday.

7. APEC installed rebar and wood forms in front of the two GIS building doors, and poured concrete Monday through Friday.
8. APEC installed sewer pipe in the excavation south of the GIS building Monday through Friday.
9. APEC excavated and installed grounds west of the GIS building on Thursday and Friday.
10. PG&E painted the transformer and reactor Monday through Friday.
11. CCE installed infrastructure and conducted electrical work in the GIS building Monday through Saturday (see Figure 4).
12. Clean Harbors replaced roll-off bins Monday through Saturday.
13. At the time of the CPUC EM site visit on July 12th, crews were installing rebar and forms for the perimeter wall, installing equipment in the GIS building, conducting electrical and plumbing work in the GIS building, installing a sewer pipe south of the GIS building, and installing grounds west of the GIS building.

Substation Adjacent to Potrero Switchyard

1. CCE conducted electrical work in the control building Monday through Friday.
2. CCE QEW monitored work in the substation Monday through Friday.
3. CCE constructed metal infrastructure for use in the GIS building Monday through Saturday.
4. Nexans conducted electrical work on the 115 kV bus Monday through Friday.
5. At the time of the CPUC EM site visit on July 12th, crews were conducting electrical work on the 115 kV bus.

Environmental Compliance:

1. No cultural monitoring was required during the subject week.
2. Air quality monitoring was conducted by ERM Monday through Saturday.
3. PG&E's Environmental Inspector (EI) conducted monitoring of this area on Monday and Thursday, including SWPPP inspections and nesting bird sweeps. No biological finds were noted.
4. PG&E's EI noted one new housekeeping and compliance issues:
 - On July 11th, the rumble plates at the 23rd Street gate to the Potrero Switchyard were not centered at the gate and vehicles were entering and existing through the gate without using the plates and were going around the plates. On July 14th, the PG&E EI observed the issue was rectified; the rumble plates were repositioned.
5. PG&E's EI noted that the following previous housekeeping and compliance issue were resolved:
 - On June 27th, AHTNA reported via email to PG&E that the drainage inlet on 23rd Street just west of the 23rd Street access/main gate was inundated with litter and sediment, and recommended the removal of the litter and sediment. On June 30th and July 6th, the PG&E EI observed that the issue was still ongoing. On July 11th the PG&E EI observed the issue was rectified; the litter and sediment was cleaned from the drainage inlet.
 - On July 6th, project related litter/trash was accumulating inside the opening of the brick building near a kiddie pool in the southeast corner of the yard. On July 11th, the PG&E EI observed the issue was rectified; the litter was cleaned up and disposed of properly.

- On July 6th, a 5-gallon bucket near the APEC trailer and a garbage can in the north part of the yard (east of the staged wire spools) had trash accumulating without lids. On July 14th, the PG&E EI observed the issue was rectified.
 - On July 8th, a kiddie pool was being used as a secondary containment for a light tower that was not lined with plastic and had holes in the bottom. The PG&E EI recommended the pool be lined with two sheets of plastic to create sufficient secondary containment. A second kiddie pool that had been crushed should be disposed of. On July 11th, the PG&E EI observed the issue was rectified.
6. The CPUC EM observed that the rumble plates at the 23rd Street gate to the Potrero Switchyard were positioned correctly. The CPUC EM also observed that the site was neat and clean, and that SWPPP measures were in place. All observed work activities were in compliance with MMs and 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 necessary 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 07/21/16)

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 #	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 07/21/16)

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: Preparing for cable pull into the vault on Spear Street, July 12, 2016.



Figure 2: APEC conducting water and sewer line tie-in work on 23rd Street, July 12, 2016.



Figure 3: Overaa installing rebar and forms for perimeter wall at Potrero Switchyard, July 12, 2016.



Figure 4: CCE installing infrastructure and electrical work in GIS building in Potrero Switchyard, July 12, 2016.