



5020 Chesebro Road, Suite 200, Agoura Hills, CA 91301-2285
Tel. 818-597-3407, Fax 818-597-8001, www.aspeneg.com

PROJECT MEMORANDUM

PG&E EMBARCADERO-POTRERO 230 kV TRANSMISSION PROJECT

To: Billie Blanchard, Project Manager, CPUC
From: Vida Strong, Aspen Project Manager
Date: September 1, 2016
Subject: Monitoring Report #101 – August 22, 2016 to August 28, 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

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. NRE, Sumitomo, and Rosendin conducted fiber work Monday through Wednesday.

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, housekeeping, or compliance issues were noted at this location.

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

23rd Street, Duct Bank and Vault

1. NRE and Sumitomo staged equipment and demobilized equipment and materials at the transition vault on the 23rd Street Monday through Friday.

Environmental Compliance:

1. PG&E's EI conducted monitoring of this area on Monday and Thursday, including SWPPP inspections and nesting bird sweeps. No biological finds, housekeeping, or compliance issues were noted at this location.

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 drilled, installed metal hangers, welded hangers, and installed architectural panels on the outside south panels of the GIS building Monday through Friday (see Figure 1).
3. Overaa aided other work crews and conducted housekeeping and dust control Monday through Friday.
4. Overaa installed wall footings near the 23rd Street gate Monday through Friday see Figure 2).
5. CCE conducted electrical work in the GIS building Monday through Sunday.
6. CCE conducted electrical work on the transformer and reactor Monday through Sunday.
7. SSI installed and removed scaffolding at multiple places inside the GIS building Monday through Friday.
8. ACME installed card reader on doors for the GIS building Monday through Friday.
9. MEI conducted electrical work on lights and HVAC (air conditioning) wiring in the GIS building Monday through Friday.
10. Nexans conducted electrical work in the GIS building Monday through Friday.
11. Sumitomo connected cable work in the GIS basement Monday through Wednesday.
12. Spencer Masonry installed rebar, cement blocks, and mortar, and poured concrete for the perimeter and fire walls Monday through Friday (see Figure 3).
13. APEC backfilled and compacted ground around the GIS building Monday through Friday.
14. APEC excavated and installed pipe near the southeast corner of the GIS building for water/sewer tie-in Monday through Friday.
15. Clean Harbors replaced roll-off bins Monday through Friday.

Substation Adjacent to Potrero Switchyard

1. CCE conducted electrical work on the 115kV bus Monday through Sunday.
2. APEC backfilled and compacted base rock Monday through Friday (see Figure 4).

Environmental Compliance:

- Cultural monitoring was conducted by Far Western Monday through Friday in the Potrero Switchyard, and cultural constituents were observed.
- Air quality monitoring was conducted by ERM Monday through Friday.
- 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.

- PG&E’s EI noted one ongoing housekeeping and compliance issue:
 - On August 11th, the PG&E EI observed a buildup of cigarette butts in the staging area at the northern end of the project site. On August 15th, 18th, and 22nd, the PG&E EI observed that this concern was still outstanding and additional litter was present.
- PG&E’s EI noted one rectified housekeeping and compliance issue:
 - On August 18th, the PG&E EI observed two light structures without secondary containment. On August 22nd, the PG&E EI observed that the concern was still ongoing. On August 28th, the PG&E EI observed that the light towers had been moved offsite.

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 09/01/16)

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 230kV/115kV 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 09/01/16)

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 - Overaa installing architectural tiles on GIS building at Potrero Switchyard, August 25, 2016. Photo courtesy of PG&E.



Figure 2 - Overaa installed wall footings in Potrero Switchyard, August 25, 2016. Photo courtesy of PG&E.



Figure 3 - Spencer Masonry building perimeter wall in Potrero Switchyard, August 22, 2016. Photo courtesy of PG&E.



Figure 4 - APEC backfilling and compacting base rock in Potrero Substation, August 22, 2016. Photo courtesy of PG&E.