



PROJECT MEMORANDUM

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

PG&E EMBARCADERO-POTRERO 230 KV TRANSMISSION PROJECT

To:Billie Blanchard, Project Manager, CPUCFrom:Vida Strong, Aspen Project ManagerDate:November 9, 2016Subject:Monitoring Report #109 – October 24, 2016 to November 6, 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 October 26th

The PG&E Embarcadero-Potrero 230 kV Transmission Project was <u>fully energized</u> on Sunday, September 11, 2016. Additional work continues at the Potrero Switchyard.

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

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

23rd Street, Duct Bank and Vault

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

Environmental Compliance:

1. No compliance monitoring was necessary 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:

2. 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 Friday both weeks.
- 2. CCE conducted electrical punch-list item tasks in the GIS building for PG&E Monday through Friday both weeks.

- 3. CCE conducted electrical work on the transformer control box Thursday, November 3rd, and Friday, November 4th.
- 4. APEC conducted housekeeping and dust control activities Monday through Friday both weeks.
- 5. APEC backfilled around the water main and sewer tie-ins near the southeast and southwest corners of the GIS building Wednesday through Friday the week of October 24 30 (see Figures 1 and 2).
- 6. APEC excavated near the southeast and southwest corner of the GIS building for the water and sewer tie-in Monday through Friday both weeks.
- 7. APEC installed security foundations Monday through Friday both weeks.
- 8. APEC removed the rebar and wood form cage near the southeast corner of the GIS building for the water and sewer tie-in Monday through Wednesday the week of October 24 30.
- 9. APEC excavated in the northeast corner of the perimeter wall relating to electrical work Thursday, November 3rd, and Friday, November 4th.
- 10. APEC demobilized and removed equipment and materials Monday through Friday both weeks.
- 11. Clean Harbors replaced roll-off bins Monday through Friday both weeks.
- 12. At the time of the CPUC EM's site visit on October 26th, crews were excavating and backfilling the water and sewer tie-ins near the southeast and southwest corners of the GIS building, conducting electrical work in the GIS building, and working on punch-list items around the switchyard site. The wall for the transformer has been completed (see Figure 3), as well as the wall around the reactor and the perimeter wall. The sidewalk, curb, and drainage work along 23rd Street is on hold for the moment as engineering is altering final design due to unexpected existing drainage issues (see Figure 4).

Substation Adjacent to Potrero Switchyard

1. Materials and equipment were staged Monday through Friday.

Environmental Compliance:

- Cultural monitoring was conducted by Far Western Monday through Friday both weeks in the Potrero Switchyard and on 23rd Street for the water and sewer line tie-in work, and cultural constituents were observed.
- Air quality monitoring was conducted by ERM Monday through Friday both weeks.
- PG&E's Environmental Inspector (EI) conducted monitoring of this area on Monday and Thursday both weeks, including SWPPP inspections and nesting bird sweeps. No biological finds were noted.
- PG&E's EI noted no housekeeping or compliance issues.
- 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 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 necessary at this location.

Notices to Proceed

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

	Date	Date		
NTP #	Requested	Issued	Phase	Description
NTP #1	6/23/14	8/21/14	Potrero Site	Site preparation and excavation of the 230 kV
			Preparation	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	Underground duct bank and vault installation
			Duct Bank	between the HDD transition on Spear St. to
			and Vaults	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	11/13/14	11/14/14	Underground	Trench from the new Potrero Switchyard to
MOD			Duct Bank	the existing switchyard for the 230 kV/115 kV
			and Vaults	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	Construction of 230 kV Potrero gas-insulated
			Switchgear	switchgear (GIS) building and cable tie-in
			Building	component at Potrero Switchyard.

Table 1 Notice to Proceeds (NTPs) (Updated 11/09/16)

Minor Project Changes

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

Table 2							
Minor Project Changes (MPCs)							
(Updated 11/09/16)							

	Date	Date		
MPC #	Requested	Issued	Phase	Description
MPC #1	7/16/14	7/23/14	Amador	Use of an existing staging and laydown yard
			Staging and	adjacent to Alternate Staging Area #3 (as
			Laydown Yard	identified in the IS/MND)on Amador St., SF.
MPC #2	12/31/14	1/5/15	Staging and	Use of an existing paved staging and laydown
			Laydown Yard	yard at 1215 Michigan Street, SF, two blocks
				from the Potrero Switchyard.

PROJECT PHOTOS



Figure 1 – APEC backfilling around the water and sewer tie-in near the southeast corner of the GIS building, October 26, 2016.



Figure 2 - APEC backfilling around the water and sewer tie-in near the southwest corner of the GIS building, October 26, 2016.



Figure 3 – Wall around the transformer completed and all electrical work done, October 26, 2016.

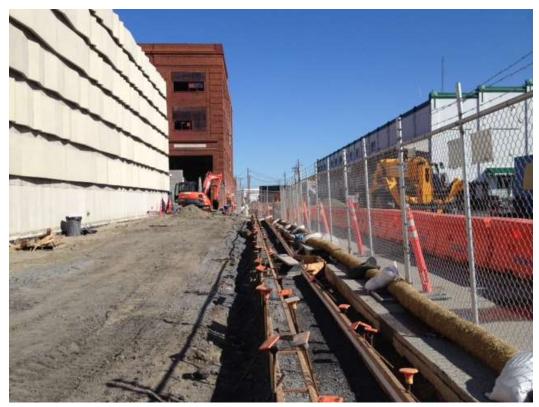


Figure 4 – Sidewalk, curb, and drainage work along 23rd Street, October 26, 2016.