



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 22, 2016

Subject: Monitoring Report #104 - September 12, 2016 to September 18,

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

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:

 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.

Agoura Hills • San Francisco • Sacramento • Inland Empire • Palm Springs • Phoenix

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.
- 2. Overaa drilled, installed and welded metal 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 gate footings outside the GIS building Monday through Wednesday.
- 5. CCE conducted electrical work in the GIS building Monday through Friday.
- 6. CCE conducted electrical work on the transformer Thursday and Friday.
- 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 Wednesday.
- 9. MEI conducted electrical work on lights on the outside of the GIS building panels Monday through Friday.
- 10. MEI conducted miscellaneous work in the GIS building Monday through Friday.
- 11. Spencer Masonry installed rebar, cement blocks, and mortar, and poured concrete for the perimeter and fire walls Monday through Friday (see Figure 2).
- 12. APEC backfilled and compacted ground around the GIS building Monday through Friday (see Figure 3).
- 13. APEC excavated and installed shoring and pipe near the southeast corner of the GIS building for water/sewer tie-in Monday through Friday.
- 14. APEC demobilized and removed equipment and materials Monday through Friday.
- 15. Clean Harbors replaced roll-off bins Monday through Friday.

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 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 new and two ongoing housekeeping and compliance issues:
 - On September 12th, the PG&E EI observed debris from APEC's excavation in the southeastern corner of the site was falling through the fence and onto the sidewalk. On September 15th, the PG&E EI observed that this concern had been rectified.

- On September 15th, the PG&E EI observed a kiddie pool being used for concrete washout; the pool was unlined and had cracks in it (see Figure 4). It was recommended that the concrete be disposed of (concrete was dry), and the containment be lined with 2 layers of plastic prior to being reused as a concrete washout. This cracked kiddie pool being used for containment has been an issue in the past.
- On September 15th, the PG&E EI observed trash and litter accumulating at the base of the stairs of the PG&E control room. It was recommended that all trash and litter be cleaned up and disposed of properly. Trash and litter has been an ongoing issue at the project site.

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 09/22/16)

NTP#	Date Requested	Date Issued	Phase	Description
	•	1000.00	1 110.00	·
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 and	between the HDD transition on Spear St. to
			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.

	Date	Date		
NTP#	Requested	Issued	Phase	Description
NTP #3	11/13/14	11/14/14	Underground	Trench from the new Potrero Switchyard to
MOD			Duct Bank and	the existing switchyard for the 230 kV/115 kV
			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.

Minor Project Changes

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

Table 2
Minor Project Changes (MPCs)

(Updated 09/22/16)

MPC#	Date Requested	Date Issued	Phase	Description
MPC#1	7/16/14	7/23/14	Amador	Use of an existing staging and laydown yard
			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, September 12, 2016. Photo courtesy of PG&E.



Figure 2 – Spencer Masonry building fire wall around transformer, September 15, 2016. Photo courtesy of PG&E.



Figure 3 - APEC backfilled and compacted around the GIS building, September 15, 2016. Photo courtesy of PG&E.



Figure 4 – Unlined kiddie pool for concrete washout with cracks, September 15, 2016. Photo courtesy of PG&E.