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PROJECT MEMORANDUM Tel. 818-597-3407, Fax PG&E EMBARCADERO-POTRERO 230 KV TRANSMISSION PROJECT

To: Billie Blanchard, Project Manager, CPUC From: Vida Strong, Aspen Project Manager

Date: July 15, 2016

Subject: Monitoring Report #94 – July 4, 2016 to July 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

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 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.

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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 delivered equipment into the vault on Spear Street and conducted work in preparation for the pulling of conductor cable on Thursday and Friday (see Figure 1).

Environmental Compliance:

- 1. PG&E's Environmental Inspector (EI) conducted monitoring of this area on Wednesday and Friday, including SWPPP inspections and nesting bird sweeps. No biological finds were noted.
- 2. PG&E's EI noted no housekeeping or compliance issues at this location.

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 Wednesday through Friday (see Figure 2).
- Sumitomo and NRE delivered and staged equipment on Thursday and Friday 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.

Environmental Compliance:

- 1. PG&E's Environmental Inspector (EI) conducted monitoring of this area on Wednesday and Friday, including SWPPP inspections and nesting bird sweeps. No biological finds were noted.
- 2. Cultural monitoring was conducted by Far Western Wednesday through Friday and cultural constituents were observed.
- 3. PG&E's El noted no housekeeping or compliance issues 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 Tuesday through Sunday.
- 2. Overaa aided other work crews and conducted housekeeping and dust control activities Tuesday through Friday.
- 3. Overaa excavated for the perimeter wall, and installed rebar and forms in the excavation Tuesday through Friday.
- 4. Overaa poured concrete in the perimeter wall excavation on Friday (see Figure 3).
- 5. SSI installed scaffolding in the GIS building Tuesday through Friday.
- 6. APEC installed rebar and wood forms in front of the two GIS building doors Tuesday through Friday.
- 7. CCE installed infrastructure and conducted electrical work in the GIS building Tuesday through Sunday (see Figure 4).
- 8. MEI conducted electrical work in the GIS building Friday through Sunday.
- 9. Clean Harbors replaced roll-off bins Tuesday through Friday.

Substation Adjacent to Potrero Switchyard

- 1. CCE conducted electrical work in the control building Tuesday through Sunday.
- 2. CCE QEW monitored work in the substation Tuesday through Friday.
- 3. CCE constructed metal infrastructure for use in the GIS building Tuesday through Friday.
- 4. Nexans conducted electrical work on the 115 kV bus Tuesday through Friday.

Environmental Compliance:

- 1. No cultural monitoring was required during the subject week.
- 2. Air quality monitoring was conducted by ERM Tuesday through Friday.
- 3. PG&E's Environmental Inspector (EI) conducted monitoring of this area on Wednesday and Friday, including SWPPP inspections and nesting bird sweeps. No biological finds were noted.
- 4. PG&E's El noted three housekeeping and compliance issues:
 - 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 July 6th, the PG&E EI observed that the issue was still
 ongoing.

- 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, at the 5-gallon bucket near the APEC trailer, and a garbage can in the north part of the yard (east of the staged wire spools).
- 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.
- 4. PG&E's EI noted that the following previous housekeeping and compliance issue was resolved:
 - On June 27th, trash was accumulating in locations in the switchyard around the NRG building (north of the ABB trailer), around the transformer and reactor, and within secondary containment units under machinery. On July 6th, the PG&E EI observed that all the litter/trash at the locations specified was cleaned up.

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 07/15/16)

	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#	Date Requested	Date Issued	Phase	Description
NTP #3	•	1000.00	1 110.00	·
NIP#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.
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 07/15/16)

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: Sumitomo and NRE delivered equipment into the vault on Spear Street, July 8, 2016. Photo courtesy of PG&E.



Figure 2: APEC excavated for the water and sewer line tie-in on 23rd Street, July 6, 2016. Photo courtesy of PG&E.



Figure 3: Overaa pouring concrete for perimeter wall at Potrero Switchyard, July 8, 2016. Photo courtesy of PG&E.



Figure 4: CCE electrical work in GIS building basement in Potrero Switchyard, July 6, 2016. Photo courtesy of PG&E.