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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: October 28, 2015

Subject: Monitoring Report #58 – October 19 to October 25, 2015

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 20th.

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, Duct Bank (day work)

1st Street and Fremont Street

- 1. Underground Construction Co. installed shoring on Monday.
- 2. Underground Construction Co. cut conduit pipe on Tuesday.
- 3. Underground Construction Co. fused conduit pipe on Monday and Tuesday.
- 4. Underground Construction Co. removed shoring Wednesday through Friday.
- 5. Underground Construction Co. backfilled the trench with sand Wednesday through Saturday.
- 6. Underground Construction Co. backfilled the trench with concrete on Thursday and Saturday.
- 7. Underground Construction Co. installed conduit pipe on Friday and Saturday.
- 8. Clean Harbors hauled off excavated material for disposal Monday through Wednesday.
- 9. Underground Construction Co. conducted street sweeping Monday through Saturday.
- 10. At the time of the CPUC EM site visit on October 20th, a crew was installing conduit in front of the Embarcadero Substation (see Figure 1).
- 11. No work activities occurred on Sunday.

Fremont and Beale Streets

12. No work activities occurred at this location during the week.

Beale and Main Streets

- 13. Underground Construction Co. excavated trench Monday through Wednesday.
- 14. Underground Construction Co. installed shoring in the trench on Monday and Tuesday.
- 15. Underground Construction Co. saw cut pavement on Tuesday.
- 16. Underground Construction Co. installed and tied rebar Wednesday through Saturday.
- 17. Underground Construction Co. installed conduit pipe in the trench on Saturday.
- 18. Underground Construction Co. backfilled the trench with concrete on Saturday.
- 19. PSC dewatered the trench Monday through Saturday.
- 20. Clean Harbors hauled off excavated material for disposal Monday through Wednesday.
- 21. At the time of the CPUC EM site visit on October 20th, a crew was excavating the trench on the south side of Main Street, and saw cutting pavement between Beale and Main Streets (see Figures 2 and 3).
- 22. No work activities occurred on Sunday.

Main and Spear Streets

- 23. Underground Construction Co. installed and tied rebar Thursday through Saturday.
- 24. Underground Construction Co. installed conduit pipe in the trench on Friday and Saturday.
- 25. PSC dewatered trench Thursday through Saturday.

Spear Street, Duct Bank (between Folsom St and Harrison St)

- 1. Spear Street has been paved and temporary striping applied.
- 2. No work activities occurred on Spear Street during the week.

Spear Street, Vault

1. No work activities occurred at the vault on Spear Street during the week.

Environmental Compliance:

- 1. Cultural monitoring was conducted by Far Western Monday through Thursday. Cultural constituents were observed, documented and some collected October 19th through 22nd.
- 2. PG&E's Environmental Inspector conducted monitoring of the work area and activities on Monday through Saturday, including SWPPP inspections.
- 3. PG&E's Environmental Inspectors noted no compliance issues at this location.
- 4. The CPUC EM noted that the site was neat and clean, and that SWPPP measures were in place. All observed work activities were in compliance with the mitigation measures (MMs), Applicant Proposed Measures (APMs), and other permit requirements.

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

23rd Street, Duct Bank

- 1. Underground Construction Co. installed conduit pipe Monday through Wednesday.
- 2. Underground Construction Co. removed shoring from the trench on Monday, Tuesday, and Thursday.
- 3. Underground Construction Co. cut conduit pipe on Tuesday and Thursday.
- 4. Underground Construction Co. backfilled the trench with sand on Wednesday.
- 5. Underground Construction Co. built a plywood dam on Wednesday and Thursday.
- 6. Underground Construction Co. conducted housekeeping activities on Thursday.
- 7. Underground Construction Co. removed temporary fencing on Thursday.
- 8. Underground Construction Co. backfilled the trench with concrete on Thursday.
- 9. Street sweeping was conducted Monday through Friday.
- 10. Clean Harbors/PSC managed spoils in roll-off bins Monday, Tuesday, and Thursday.
- 11. At the time of the CPUC EM site visit on October 20th, crews were installing conduit in the trench (see Figure 4).
- 12. No construction activities occurred on Saturday or Sunday.

23rd Street, Vault

1. No work was conducted in the vault during the week.

Environmental Compliance:

- 1. Air quality monitoring was conducted by ERM Monday through Thursday.
- 2. PG&E's Environmental Inspector conducted monitoring of the work area and activities Monday through Friday, including SWPPP inspections.
- 3. PG&E's Environmental Inspectors noted two compliance issues at this location:
 - From October 5th to date, sediment spills were noted from Clean Harbors' roll-off bins as they
 are loaded for off-haul. The sediment is from a Badger vacuum truck excavating on Folsom
 Street at Duct Bank North. Spills are being cleaned up as they occur.
 - On October 21st, two 55 gallon drums were labeled with a 'Non-Hazardous Waste' label and had 'mud from spill cleanup' written on the labels. John Woodruff (PG&E) was contacted and indicated that potentially contaminated dirt from Duct Bank North should not be stored in drums labeled 'Non-Hazardous Waste'. The mud was considered hazardous since the location where it was excavated on Folsom Street was unknown. It was recommended that the drums be labeled with hazardous waste labels and the drums be put into the roll-off bins for disposal with the other hazardous sediment. On October 22nd, the issue was rectified; the sediment in the drums was removed and put in the roll-off bins by PSC and the drum labels were removed.
- 4. The CPUC EM noted where the spoils had spilled from the roll-off bin staged on 23rd Street. Other than that, the CPUC EM noted that the site was neat and clean, and that SWPPP measures were in place. All observed work activities were in compliance with the mitigation measures (MMs), Applicant Proposed Measures (APMs), and other permit requirements.

E-P Submarine Rock and Debris Removal

NTP #4 was issued on November 21, 2014 for the rock removal 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 conducted.

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:

- 1. Office trailer use occurred Monday through Sunday.
- 2. Overaa conducted housekeeping and dust control activities Monday through Saturday.
- 3. Overaa aided Sheedy in crane setup on Friday.
- 4. ABB delivered and staged 2 new trailers on Friday.

- 5. Proven excavated slope cut relating to the site drain system on Monday.
- 6. Proven installed drain pipe relating to the site drain system on Tuesday.
- 7. Proven backfilled with base rock relating to the site drain system Tuesday through Thursday.
- 8. Proven installed filter felt relating to the site drain system on Wednesday.
- 9. Contra Costa and Alpha Pacific conducted bus foundation demolition and lowered concrete footings relating to the installation of a 'shoo-fly' in the nearby Potrero Substation Monday through Friday.
- 10. Contra Costa welded, installed and removed grounds, installed insulators and conductors, and set poles during outage on Saturday and Sunday.
- 11. PSC disconnected and moved the oil filtration section of the dewatering system on Wednesday.
- 12. PSC relocated the BTI frac tank on Friday.
- 13. Sheedy delivered the crane and conducted crane setup on Friday.
- 14. At the time of the CPUC EM site visit on October 20th, a crew was installing a drain around the GIS building foundation (see Figure 5), and another crew was working on the 'shoo-fly' in the adjacent substation.

Environmental Compliance:

- 1. Air quality monitoring was conducted by ERM Monday through Friday.
- 2. PG&E's Environmental Inspector conducted monitoring of this area Monday through Saturday, including SWPPP inspections.
- 3. PG&E's Environmental Inspectors noted one compliance issue at this location. On October 19th, litter and trash (e.g., plastic wrappers and food waste) was accumulating in a box on the south side of the NRG building located in the middle of the project site. On October 20th, the box with trash contents was disposed of.
- 4. The CPUC EM noted that the site was neat and clean, and that SWPPP measures were in place. All observed work activities were in compliance with the 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. Office trailer use occurred Monday through Saturday at the yard.
- 2. Tailboard meetings occurred at the yard Monday through Saturday.

- 3. Equipment and materials were stored at the yard throughout the week.
- 4. Underground Construction Co. conducted dust control activities Monday through Saturday.
- 5. At the time of the CPUC EM site visit on October 20th, the office trailers were in use and equipment and materials were being stored at the yard.

Environmental Compliance:

- 1. PG&E's Environmental Inspector conducted monitoring of the work area and activities Monday through Friday, including SWPPP inspections.
- 2. PG&E's Environmental Inspectors noted no compliance issues at this location.
- 3. The CPUC EM noted that the site was neat and clean, and that SWPPP measures were in place. All observed work activities were in compliance with the mitigation measures (MMs), Applicant Proposed Measures (APMs), and other permit requirements.

Notices to Proceed

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

Table 1
Notice to Proceeds (NTPs)
(Updated 10/28/15)

	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 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 com-
			Building	ponent 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 10/28/15)

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	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

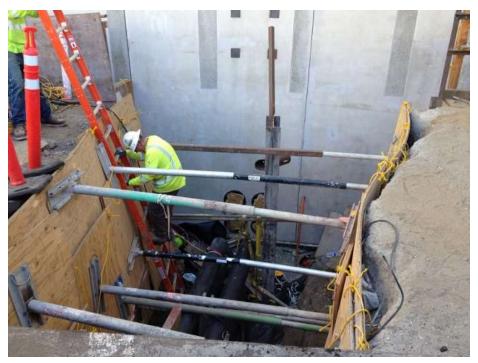


Figure 1 – Installing conduit just outside the new Embarcadero Substation addition. View east, October 20, 2015.



Figure 2 – Excavating trench on Folsom Street at Main Street. View south, October 20, 2015.



Figure 3 – Saw cutting pavement on Folsom Street between Beale and Main Streets. View south, October 20, 2015.



Figure 4 – Installing conduit within the trench on 23rd Street. View east, October 20, 2015.



Figure 5 – Installing drains around the GIS building foundation at the Potrero Switchyard. View north, October 20, 2015.