



PROJECT MEMORANDUM

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PG&E EMBARCADERO-POTRERO 230 KV TRANSMISSION PROJECT

To:Billie Blanchard, Project Manager, CPUCFrom:Vida Strong, Aspen Project ManagerDate:September 8, 2015Subject:Monitoring Report #50 – August 24 to August 30, 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 August 25th.

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, Duct Bank (day work)

- 1. Underground Construction Co. excavated and installed shoring between Fremont and Beale Streets Monday through Thursday, and Saturday.
- 2. Underground Construction Co. removed shoring between Fremont and Beale Streets on Tuesday.
- 3. Underground Construction inspected previously installed shoring between Fremont and Beale Streets on Friday.
- 4. Underground Construction Co. excavated duct bank trench between Beale and Main Streets on Monday and Friday.
- 5. Underground Construction Co. installed rebar between Beale and Main Streets Monday through Wednesday.
- 6. Underground Construction Co. installed shoring between Beale and Main Streets on Tuesday and Friday.
- 7. Underground Construction Co. installed conduit pipe between Beale and Main Streets on Tuesday and Wednesday.
- 8. Underground Construction Co. cut and removed a wood log between Beale and Main Streets on Tuesday.
- 9. Underground Construction Co. saw cut and removed pavement between Beale and Main Streets on Thursday.
- 10. Underground Construction Co. poured concrete between Beale and Main Streets on Thursday and Saturday.
- 11. Underground Construction Co. removed shoring between Beale and Main Streets on Saturday.
- 12. Underground Construction Co. excavated trench between Main and Spear Streets Monday through Wednesday.
- 13. Underground Construction Co. installed shoring between Main and Spear Streets Monday and Wednesday.
- 14. Underground Construction Co. removed shoring between Main and Spear Streets on Tuesday.
- 15. Underground Construction Co. removed boardwalk wood between Main and Spear Streets on Tuesday.
- 16. Underground Construction Co. installed rebar between Main and Spear Streets Wednesday through Saturday.
- 17. Underground Construction Co. installed conduit pipe between Main and Spear Streets Thursday through Saturday.

- 18. Underground Construction Co. poured concrete between Main and Spear Streets Thursday through Saturday.
- 19. Underground Construction Co. saw cut pavement between Main and Spear Streets intersection on Saturday.
- 20. Underground Construction Co. prepared for pavement activities at the Spear Street intersection on Monday.
- 21. Annuzzi grinded and removed pavement at the Spear Street intersection on Tuesday.
- 22. Annuzzi paved on Wednesday and installed pavement striping on Thursday at the Spear Street intersection.
- 23. Underground Construction Co. conducted housekeeping Monday through Saturday.
- 24. Clean Harbors hauled off excavated material Monday through Saturday.
- 25. At the time of the CPUC site visit on August 25th, a crew was excavating between Fremont and Beale Streets, a second crew was installing rebar between Beale and Main Streets (see Figure 1), a third crew was excavating between Main and Spear Streets (see Figure 2), and a fourth crew was grinding asphalt for paving at the Spear Street intersection.
- 26. Street sweeping occurred Monday through Saturday.
- 27. No construction activities occurred on Sunday.

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

- 1. Underground Construction Co. removed pavement on Monday.
- 2. Underground Construction Co. backfilled the trench with concrete on Monday.
- 3. Underground Construction Co. conducted housekeeping Tuesday through Thursday.
- 4. PSC removed the filter skids on Wednesday.
- 5. Annuzzi grinded and removed pavement on Tuesday.
- 6. Annuzzi paved on Wednesday.
- 7. Street sweeping occurred Monday through Saturday.
- 8. At the time of the CPUC EM site visit on August 25th, crews were grinding and removing pavement for paving (see Figure 3).
- 9. No construction activities occurred on Sunday.

Spear Street, Vault

1. No work occurred at the vault during the week.

Environmental Compliance:

- 1. Cultural monitoring was conducted by Far Western Monday through Saturday. August 24–28, cultural constituents were observed, documented, and some collected.
- 2. PG&E's Environmental Inspector conducted monitoring of the work area and activities on Monday through Saturday, including SWPPP inspections.
- 3. Nesting bird sweeps were conducted Monday through Saturday.
- 4. PG&E's Environmental Inspectors noted no compliance issue at this location.

5. 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. constructed walls inside the Station A water circulation vault feature within the duct bank trench Monday through Friday.
- 2. Street sweeping was conducted Monday and Friday.
- 3. At the time of the CPUC EM site visit on August 25th, a crew was building a wall inside the Station A water circulation vault feature within the duct bank trench on 23rd Street (see Figure 4).
- 4. No construction activities occurred Saturday or Sunday.

23rd Street, Vault

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

23rd Street, Water Line Relocation

1. No work was conducted for the water line relocation during the week.

Environmental Compliance:

- 1. Cultural monitoring was conducted by Far Western Monday and Friday. August 24–28, cultural constituents were observed and documented.
- 2. Air quality monitoring was conducted by ERM Monday and Friday.
- 3. PG&E's Environmental Inspector conducted monitoring of the work area and activities on Monday through Friday, including SWPPP inspections.
- 4. Nesting bird sweeps were conducted Monday through Friday.
- 5. PG&E's Environmental Inspectors noted no compliance issues at this location.
- 6. 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. Overaa conducted housekeeping activities and dust control Monday through Thursday.
- 2. Overaa removed concrete slab blankets on Monday.
- 3. Overaa dewatered the concrete slab on Monday and Tuesday.
- 4. Overaa cleaned the slab, removed threads, laid out sleeves, and stripped stumps on Tuesday.
- 5. Overaa bushed around coupler embeds on Wednesday.
- 6. Overaa conducted layout of pre-fabricated forms on Thursday.
- 7. Sheedy removed GIS equipment for storage at the Sheedy warehouse on Monday.
- 8. PSC staged the filter skids that were removed from Duct Bank North on Wednesday.
- 9. Office trailer use occurred Monday through Thursday.
- 10. At the time of the CPUC EM site visit on August 25th, the concrete slab had been dewatered (see Figure 5).

Environmental Compliance:

- 1. Air quality monitoring was conducted by ERM Monday through Thursday.
- 2. PG&E's Environmental Inspector conducted monitoring of this area Monday through Thursday, including SWPPP inspections.
- 3. Nesting bird sweeps were conducted Monday through Thursday.
- 4. PG&E's Environmental Inspectors noted two compliance issues at this location:
 - On August 24th, the water previously applied during the curing process of the concrete foundation slab was being dewatered. The water was being used around the site on exposed dirt for water suppression. No water was observed on pavement, running off the work site or into a drainage inlet (DI), or being applied to a natural or artificial drainage. The SWPPP consultant recommended that any water left on the slab be disposed of into the PSC filtration and disposal system.
 - On August 25th and 26th, plastic shavings were observed on pavement and within a PSC secondary containment unit assumed to be from PSC's PVC pipe cutting. The issue was rectified; the shavings were removed and disposed of.
- 5. 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. Durocher scrapped cable containers and recycled power cable in the Manson Yard Monday through Friday.
- 2. No work activities occurred on Saturday and Sunday.

Environmental Compliance:

1. PG&E's Environmental Inspectors noted no compliance issues regarding this work.

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. No work occurred at the yard on Sunday.

Environmental Compliance:

- 1. PG&E's Environmental Inspector conducted monitoring of the work area and activities Monday through Saturday, including SWPPP inspections.
- 2. Nesting bird sweeps were conducted Monday through Saturday.
- PG&E's Environmental Inspectors noted one compliance issue at this location. On August 26th, over 75 cigarette filters/butts were noted on the ground under and around the stairs of the BVCI trailer. The PG&E Environmental Inspector informed BVCI and Underground Construction Co. of the issue.

Notices to Proceed

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

(Updated 09/08/15)				
	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.

Table 1 Notice to Proceeds (NTPs) (Undated 00/08/11)

NTP #	Date Requested	Date 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)

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	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

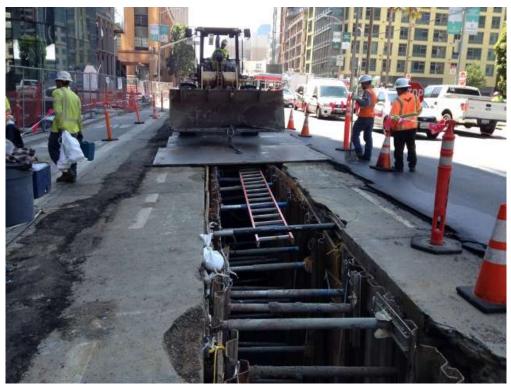


Figure 1 – Installing rebar in the duct bank trench on Folsom Street between Beale and Main Streets. View south, August 25, 2015.



Figure 2 – Excavating duct bank trench on Folsom Street between Main and Spear Streets. View south, August 25, 2015.



Figure 3 – Grinding asphalt and removing pavement on Spear Street. View east, August 25, 2015.



Figure 4 – Building wall in duct bank trench for Station A water circulation vault feature on 23rd Street. View south, August 25, 2015.



Figure 5 – Potrero Switchyard building foundation concrete pad. View northeast, August 25, 2015.