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PROJECT MEMORANDUM

PG&E EMBARCADERO-POTRERO 230 KV TRANSMISSION PROJECT

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

Date: December 4, 2014

Subject: Monitoring Report #10 – November 17 to November 23, 2014

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 November 20, 2014.

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. Foundation demolition and excavation activities occurred Monday through Saturday (see Figure 1).
- 2. Foundation concrete was removed from the site Monday through Thursday.
- 3. Removal of rebar from concrete for recycling occurred Monday through Saturday.
- 4. Removal of excavated soil from the site occurred Monday through Wednesday, and Friday.
- 5. Street sweeping occurred Monday through Saturday.
- 6. At the time of the CPUC EM site visit on Thursday, November 20th, foundation demolition and excavation were occurring with the use of excavators. The area was being watered to keep the dust down as they excavated.
- 7. No work was conducted on Sunday.

Environmental Compliance:

- 1. Cultural monitoring was conducted Monday through Saturday. Cultural constituents were observed, documented, and collected on November 17 and 19 21.
- 2. Air quality monitoring was conducted Monday through Saturday.
- 3. PG&E's Environmental Inspector conducted monitoring of this area throughout the week, including SWPPP inspections.
- 4. PG&E's Environmental Inspectors noted no compliance issues 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.

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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. HDD drilling activities continued at Bore 3 Monday through Sunday (see Figure 2).
- 2. Traffic controls have been established at the corner of Spear Street and Harrison Street by Bay Area Traffic Solutions (BATS). Limited access is provided to Spear Street (a dead end street) including deliveries and people with parking garage permits, as well as construction personnel.
- 3. An 8-foot-tall chain link fence with sound blankets are in place around the HDD equipment and work area.
- 4. Street sweeping occurred Monday through Sunday.
- 5. At the time of the CPUC EM site visit in the afternoon on November 20th, no HDD drilling was occurring because a part on their equipment had broken and they were welding pipe to the bore machine carriage. They had drilled around 1430 feet total, but had only gone 15 feet that day.

Environmental Compliance:

- 1. PG&E's Environmental Inspector conducted monitoring of the work activities throughout the week, including SWPPP inspections and checking the drill path in the Bay for signs of drilling fluid release.
- 2. PG&E's Environmental Inspectors noted no compliance issues at this location.
- 3. The CPUC EM noted that SWPPP measures were in place, traffic controls were established, and the site was neat and clean. Observed work activities were in compliance with the MMs, APMs, and other permit requirements.

Summary of Activity at the Southern Bore (23rd Street):

- 1. Equipment delivery occurred on Monday.
- 2. High density polyethylene (HDPE) pipe was hydro-tested on Monday and Wednesday.
- 3. HDD drilling activities continued at Bore 1 Monday through Wednesday. The drill entered the receiving pit on Thursday (see Figure 3).
- 4. Back reaming of Bore 1 occurred on Thursday, casings were removed Friday, the HDPE pipe was dewatered on Friday, and the HDPE pipe was installed in Saturday.
- 5. A Baker tank was delivered and staged on Friday.
- 6. Equipment was moved from the Bore 1 to Bore 2 pit on Sunday.
- 7. Vegetation removal was conducted on Friday.
- 8. Street sweeping occurred Monday through Sunday.
- 9. Submarine work conducted by Vortex included divers confirming that the bore popped out in the receiving pit on Thursday and then replaced the bore head with the 22-inch reverse reamer.
- 10. At the time of the CPUC EM site visit on November 20th, crews were preparing to ream back with the 22-inch reverse reamer.

Environmental Compliance:

- 1. PG&E's Environmental Inspector conducted monitoring of the work activities throughout the week, including SWPPP inspections and checking the drill path in the Bay for signs of drilling fluid release.
- 2. PG&E's Environmental Inspectors noted a minor problem at this location. On November 17–19, a mud pump was observed leaking oil into oil absorbent diapers. The PG&E EI recommended that the pump be placed in secondary containment and be serviced or removed from the project site. The pump was removed the morning of November 20.
- 3. The CPUC EM noted that the site was neat and clean, and SWPPP measures were in place. Observed work activities were in compliance with the MMs, APMs, and other permit requirements.

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:

- 1. Duct bank installation occurred Monday on Folsom Street and cement was poured into the duct bank excavation Tuesday through Saturday (see Figure 4). Some pavement pieces that fell into the trench were removed and part of the trench was backfilled with sand on Friday.
- 2. Traffic control setup occurred on Monday through Saturday on Folsom Street.
- 3. Street sweeping occurred Monday through Friday.
- 4. 12 kV relocation work on Spear Street occurred Monday through Friday, with excavating on Monday and Tuesday, backfilling excavation on Wednesday and Thursday, and paving on Friday (see Figure 5).
- 5. At the time of the CPUC EM site visit on November 20th, cement slurry was being poured in the trench with the installed conduit on Folsom Street between Beale Street and Zeno Place. The trenches were plated at the end of the work day. In the evening, the CPUC EM conducted a site visit of the work area on Spear Street between Harrison Street and Folsom Street for the 12 kV relocation work. Crews had already stopped work for the day.
- 6. No work occurred on Sunday.

Environmental Compliance:

- 1. Cultural monitoring was conducted along Folsom St. on Friday.
- 2. PG&E's Environmental Inspector conducted monitoring of the work area and activities throughout the week, including SWPPP inspections.
- 3. PG&E's Environmental Inspectors noted no compliance issues at this location.
- 4. On Folsom Street and Spear Street, the CPUC EM noted that the site was neat and clean, SWPPP measures were in place, and traffic controls were established. Observed work activities were in compliance with the MMs, APMs, and other permit requirements.

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 Sunday at the yard.
- 2. Tailboard meetings occurred at the yard Monday through Saturday.
- 3. At the time of the CPUC EM site visit on November 20th, the yard was observed to be neat and clean, and SWPPP measures were in place.

Environmental Compliance:

- 1. PG&E's Environmental Inspector conducted monitoring of the work area and activities throughout the week, 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 SWPPP measures were in place. Observed work activities were in compliance with the MMs, APMs, and other permit requirements.

Notices to Proceed

Table 1 summarizes the Notices to Proceed (NTP) for the Embarcadero-Potrero Project. NTP #4 was reviewed and approved during the subject week to allow for rock removal along the subsea cable route within the Bay.

Table 1
Notice to Proceeds (NTPs)
(Updated 12/04/14)

	Date	Date		
NTP#1	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 removal along subsea cable route.

Minor Project Changes

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

Table 2 Minor Project Changes (MPCs)

(Updated 12/04/14)

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.

PROJECT PHOTOGRAPHS



Figure 1 – Demolition of foundations at Potrero Switchyard. View southeast, November 20, 2014.



Figure 2 – HDD night work on Spear Street. View south, November 20, 2014.



Figure 3 – HDD South on 23rd Street. View west, November 20, 2014.



Figure 4 —Pouring cement slurry in duct bank trench on Folsom Street. View north, November 20, 2014.



Figure 5 – 12 kV relocation equipment and materials staged on Spear Street. View southeast, November 20, 2014.