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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: November 14, 2014
Subject: Monitoring Report #8 – November 3 to November 9, 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 3, 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 Saturday.
3. Removal of rebar from concrete for recycling occurred Monday through Saturday.
4. PSC conducted abatement of excavated pipe on Wednesday.
5. Equipment delivery occurred on Monday.
6. Street sweeping occurred Monday through Saturday.
7. At the time of the CPUC EM site visit on Tuesday, November 3rd, foundation demolition and excavation was occurring with the use of excavators. The area was being watered to keep the dust down as they excavated.
8. No work was conducted on Sunday.

Environmental Compliance:

1. Cultural monitoring was conducted Monday through Saturday.
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 non-compliance activities at this location.
5. The CPUC EM noted that the site was neat and clean and 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 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 Saturday (see Figures 2 and 3).
2. Sediment was removed from roll-out bins Monday through Saturday.
3. Rhodamine dye was added to drilling fluid at Bore 3 on Monday.
4. 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.
5. An 8-foot-tall chain link fence with sound blankets are in place around the HDD equipment and work area.
6. Street sweeping occurred Monday through Saturday.
7. Submarine work conducted by Vortex included installing coil and buoys in-water east of HDD North and excavated Bore 1 – Bore 3 receiving pits.
8. At the time of the CPUC EM site visit on November 3rd, no HDD drilling was occurring because they were waiting for the dye to arrive to add it to the drilling fluid.
9. No work activities were conducted on Sunday.

Environmental Compliance:

1. PG&E's Environmental Inspector conducted monitoring of the work activities throughout the week, including SWPPP inspections and checking drill path in bay for signs of drilling fluid release.
2. PG&E's Environmental Inspectors noted a compliance issue at this location on November 1st. No dye was in the drilling fluids as required by the approved HDD plan and agency permits. Dye was brought to the project site on November 3rd and HDD work under the Bay resumed.
3. PG&E's Environmental Inspectors noted a compliance issue at this location on November 4th and 5th. No Fluorometer was on-site to detect the dye as required by the approved HDD plan and agency permits. On November 5th, PG&E suspended HDD Co. drilling activities at HDD North and South until the fluorometer was onsite; the fluorometer arrived later that afternoon and drilling recommenced.
4. 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. HDD drilling activities occurred Tuesday through Saturday.
3. High density polyethylene (HDPE) 12-inch conduit was fused Monday and Saturday (see Figure 4).
4. Rhodamine dye was added to the drilling fluid at Bore 3 on Monday.

5. Street sweeping occurred Monday through Saturday.
6. Submarine work conducted by Vortex included installing coil and buoys in-water east of HDD South and excavated Bore 1 – Bore 3 receiving pits.
7. At the time of the CPUC EM site visit on November 3rd, crews were fusing the HDPE pipe.
8. No work occurred at this site on Sunday.

Environmental Compliance:

1. Air monitoring took place on Monday.
2. PG&E's Environmental Inspector conducted monitoring of the work activities throughout the week, including SWPPP inspections and checking drill path in bay for signs of drilling fluid release.
3. PG&E's Environmental Inspectors noted a compliance issue at this location on November 4th and 5th. No Fluorometer was on-site to detect they dye as required by the approved HDD plan and agency permits. On November 5th, PG&E suspended HDD Co. drilling activities at HDD North and South until the fluorometer was onsite; the fluorometer arrived later that afternoon and drilling commenced.
4. 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 trench excavation occurred Monday through Saturday on Folsom Street (see Figure 5).
2. Pot-holing work for utilities occurred on Monday.
3. BMPs were installed on Monday.
4. Traffic control setup occurred on Monday through Saturday on Folsom Street.
5. Street sweeping occurred Monday through Saturday.
6. At the time of the CPUC EM site visit on November 3rd, crews had trenched on Folsom Street between Beale St and Zeno Place. The soil was very sandy and the contractor was looking into getting different shoring. The trenches were plated at the end of the work day.
7. No work occurred on Sunday.

Environmental Compliance:

1. Cultural monitoring was conducted Monday through Saturday.
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 non-compliance activities at this location.
4. 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

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 Friday.
3. The CPUC EM did not conduct a site visit on November 3rd since the site had been visited the previous Wednesday.
4. No work occurred on Sunday.

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 non-compliance activities 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 11/14/14)

NTP #1	Date Requested	Date Issued	Phase	Description
NTP #1	6/23/14	8/21/14	Potrero Site Preparation	Site preparation and excavation of the 230 kV 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 Duct Bank and Vaults	Underground duct bank and vault installation between the HDD transition on Spear St. to 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 MOD	11/13/14	Under review		Trench from the new Potrero Switchyard to the existing switchyard for the 230 kV/115 kV connections across the Trans Bay Cable.

Minor Project Changes

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

Table 2
Minor Project Changes (MPCs)
(Updated 11/14/14)

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.

PROJECT PHOTOGRAPHS



Figure 1 – Demolition of foundations at Potrero Switchyard. View east, November 3, 2014.



Figure 2 – HDD set up on Spear Street. View west, November 3, 2014.



Figure 3 – Additional HDD equipment set-up on Spear Street. View southeast, November 3, 2014.



Figure 4 –Fusing HDPE 12-inch pipe on 23rd Street. View east, November 3, 2014.



Figure 5 – Trenching activities on Folsom Street. View north, November 3, 2014.