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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 18, 2015  
**Subject:** Monitoring Report #65 – December 7 to December 13, 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 December 11<sup>th</sup>.

## **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 23<sup>rd</sup> Street adjacent to the existing Potrero Substation on the corner of 23<sup>rd</sup> 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 23<sup>rd</sup> 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 (23<sup>rd</sup> 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 23<sup>rd</sup> 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.):**

#### 1<sup>st</sup> Street and Fremont Street

1. All work activities have been completed at this location.

#### Fremont and Beale Streets

2. All work activities have been completed at this location.

#### Beale and Main Streets

3. All work activities have been completed at this location.

#### Main and Spear Streets

4. All work activities have been completed at this location.

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

1. Underground Construction Co. painted in the transition vault on Monday and Wednesday.
2. At the time of the CPUC EM site visit on December 11<sup>th</sup>, no work was being conducted at this location.
3. No work activities occurred on Tuesday, or Thursday through Sunday.

### **Environmental Compliance:**

1. PG&E's Environmental Inspector conducted monitoring of the work area and activities on Monday and Wednesday, 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.

### **Summary of Activity for the Duct Bank South (23<sup>rd</sup> Street):**

#### 23<sup>rd</sup> Street, Duct Bank and Vault

1. Underground Construction Co. installed erosion control BMPs on 23<sup>rd</sup> Street on Tuesday.
2. Underground Construction Co. staged equipment on 23<sup>rd</sup> Street on Wednesday and Thursday.
3. Underground Construction Co. conducted grounding halo cable installation in the transition vault on Thursday and Friday.
4. Clean Harbors removed roll off bins on Monday, Tuesday and Thursday.
5. At the time of the CPUC EM site visit on December 1<sup>st</sup>, work had been completed for the day in the transition vault.
6. No work activities occurred on Saturday or Sunday.

**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 one compliance issue at this location. On December 4<sup>th</sup>, AHTNA recommended that the bare slope on the east side should be further stabilized to stop run-off during future rain events. On December 8<sup>th</sup>, the compliance concern was rectified; the PG&E Environmental Inspector noted that a straw wattle had been staked in and supported with sandbags halfway up the bare slope, and loose soil had been compacted.
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.

**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:**Potrero Switchyard

1. Office trailer use occurred Monday through Friday.
2. Overaa conducted housekeeping and dust control activities Monday through Friday.
3. Overaa aided other work crews Monday through Friday.
4. Metal Set welded and installed steel beams in the GIS building Monday through Wednesday, and Friday.
5. Enterprise Roofing Services (ERS) conducted waterproofing of the GIS building Monday and Tuesday.
6. Sheedy crane delivered steel into the GIS building Monday through Wednesday, and Friday.
7. APEC built and set wooden forms for the reactor pad in the switchyard on Monday and Friday.
8. APEC installed gravel for the reactor pad in the switchyard Wednesday and Thursday.
9. APEC installed rebar for the reactor pad in the switchyard Wednesday through Friday.

10. APEC installed concrete forms and poured concrete for the transformer pad in the switchyard on Monday (see Figure 1).
11. APEC installed grounding cable for the reactor pad in the switchyard on Tuesday.
12. Underground Construction Co. installed conduit wrapping entering the GIS building Tuesday and Wednesday.
13. Underground Construction Co. backfilled conduits with sand on Wednesday and backfilled with concrete on Thursday.
14. Clean Harbors delivered and staged empty roll off bins on Tuesday, Wednesday, and Friday.
15. At the time of the CPUC EM site visit on December 11<sup>th</sup>, crews were setting rebar for the reactor pad in the switchyard, and working within the GIS building (see Figures 2 and 3).
16. No work activities occurred on Saturday or Sunday.

#### Substation Adjacent to Potrero Switchyard

1. Contra Costa Electric QEW monitored work in the substation Monday through Friday.
2. APEC conducted dust control activities Monday through Friday.
3. APEC excavated and installed rebar Monday through Friday.
4. APEC poured concrete on Wednesday.
5. APEC built and/or set wooden forms on Thursday.
6. At the time of the CPUC EM site visit on December 11<sup>th</sup>, crews were excavating and setting rebar cages (see Figure 4).
7. No work activities occurred on Saturday or Sunday.

#### **Environmental Compliance:**

1. Cultural monitoring was conducted by Far Western Monday through Friday and cultural constituents were observed, documented, and some December 7<sup>th</sup> through December 11<sup>th</sup>.
2. Air quality monitoring was conducted by ERM Monday through Friday.
3. PG&E's Environmental Inspector conducted monitoring of this area Monday through Friday, 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.

#### **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. National removed temporary fencing staged outside the eastern fence line of the yard on Monday.
2. The yard has been turned back over to the Port of San Francisco.
3. At the time of the CPUC EM site visit on December 11<sup>th</sup>, the yard was locked and empty (see Figure 5).
4. No work activities occurred at the yard Tuesday through Sunday.

### Environmental Compliance:

1. PG&E's Environmental Inspector conducted monitoring of the work area and activities Monday through Wednesday, 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 12/18/15)

NTP #	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 <sup>rd</sup> St., SF.
NTP #2	7/31/14	8/28/14	HDD	Horizontal directional drilling on Spear St. and 23 <sup>rd</sup> 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 <sup>rd</sup> St. to the Potrero Switchyard in the southern section, SF.
NTP #3 MOD	11/13/14	11/14/14	Underground Duct Bank and Vaults	Trench from the new Potrero Switchyard to the existing switchyard for the 230 kV/115 kV 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 Switchgear Building	Construction of 230 kV Potrero gas-insulated switchgear (GIS) building and cable tie-in 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 12/18/15)

<b>MPC #</b>	<b>Date Requested</b>	<b>Date Issued</b>	<b>Phase</b>	<b>Description</b>
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 – Transformer pad in Potrero Switchyard. View southeast, December 11, 2015.



Figure 2 – Work on reactor pad in Potrero Switchyard. View southeast, December 11, 2015.





Figure 3 – GIS building at Potrero Switchyard. View east, December 11, 2015.



Figure 4 – Excavation work in substation adjacent to Potrero Switchyard. View west, December 11, 2015.





Figure 5 – Amador Yard empty and clean. View southeast, December 11, 2015.