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PROJECT MEMORANDUM
PG&E WINDSOR SUBSTATION PROJECT

To: Eric Chiang, Project Manager, CPUC
From: Vida Strong, Aspen Project Manager
Date: November 8, 2017
Subject: Monitoring Report #39 – October 30, 2017 to November 5, 2017

This report provides a summary of the construction and compliance activities associated with the PG&E Windsor Substation Project which includes the construction of the Windsor Substation, as well as 12 kv distribution line underbuild and reconductoring work (see Exhibit A).

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 31.

Windsor Substation Site

NTP #1 was issued on June 15, 2016 for the Windsor Substation component of the Project, located at 10789 Old Redwood Highway in the Town of Windsor. NTP #1 included conditions that had to be satisfied prior to the start of construction. PG&E was allowed to start vegetation clearing and tree trimming prior to receiving their grading permit from the Town of Windsor. PG&E received the grading and building permits from the Town of Windsor on November 14, 2016, and minimal construction activities started thereafter. During the 2016/2017 rainy season, heavy rains and saturated conditions precluded construction activities at the Windsor Substation site for the majority of the season. Construction activities started back up in April 2017.

Summary of Activity:

Crews worked at the Windsor Substation site Monday through Friday.

On Monday, October 30, VPI mobilized equipment for the horizontal directional drill (HDD) under the railroad tracks, including two vacuum trucks, and excavator, a dump truck, and a flatbed truck. Hotline coordinated with the PG&E Environmental Inspector (EI) in placing delineators along the access route to the west side of the railroad tracks so that vernal pools at the southern boundary of the property (adjacent to the Kerry Preserve) were avoided. VPI potholed to locate the gas transmission line and fiber optic line adjacent to the railroad tracks, and excavated the entrance pit for the bore. The exit pit was excavated on the east side of the SPCC pond. All excavations were covered with plywood and surrounded by cones at the end of the day. From October 31 through November 2, boring, reaming, and pulling conduit was conducted and completed for three sets of underground conduit (see Figures 1 through 4). Mud from the bore was vacuumed up and contained in a tanker truck staged in the substation. No frac-outs or spills occurred. Following completion of the conduit installation, all excavations were backfilled. Excess soil and sand were left stockpiled on site, covered with plastic and surrounded by wattles.

Trenches for the ground grid north of the Switchgear building and conduit trenches for the distribution line along the east perimeter were backfilled and compacted. A conduit run to the distribution pole outside the east perimeter of the substation was installed and backfilled. (see Figure 5).

Crews finished grading the bottom of the SPCC pond, off-hauling excavation spoils, and setting up two sections of the pond walls for the final concrete pour (see Figure 6). Filter fabric and rip-rap rock were installed in a portion of the pond, and backfilling around the pond walls was completed.

Deliveries of base rock and sand occurred for the build-up of the substation pad to grade and for around the SPCC pond. Also, in preparation for upcoming rain events, ¾-inch crushed rock was delivered and spread along paths of travel within the substation.

Vegetation remaining along the south boundary of the substation site was grubbed in advance of grading and placement of base rock, spread over Mirafi fabric.

At the time of the CPUC EM's site visit on October 31, the HDD crew was reaming back on their first bore, a crew was installing conduit in a trench along the eastern perimeter of the site, and a crew was working in the SPCC pond.

Environmental Compliance:

1. PG&E's Environmental Inspector (EI), conducted an inspection and monitoring on October 30 and 31, and November 1 and 2. The PG&E EI gave environmental training to seven personnel (six from VPI and two PG&E inspectors). Ongoing surveys for special-status species were performed. No special-status species were observed.
2. SWPPP inspections were performed by Steve Stetson on November 1 and 3. No deficiencies were identified.
3. The CPUC EM noted that the site was neat and clean. VPI had all of the necessary spill and containment equipment and materials for the HDD work. Silt fencing was installed around the wetland areas on the west and south sides of the substation site, and was in good working condition. Environmentally Sensitive Area fencing was also installed around oak trees for protection. Soil piles that were not active were covered with plastic and surrounded by fiber rolls. Drainage inlets were protected with fiber rolls and gravel bags. Watering of the site for dust control was observed. Traffic control signs were setup along Old Redwood Highway near the substation entrance and exit. The site was in compliance with mitigation measures, Applicant Proposed Measures, and other permit requirements.

12 kV Distribution Line Underbuild and Reconductoring Work

NTP #2 for the 12 kV distribution line underbuild and reconductoring work was issued by CPUC on March 30, 2017. Work along Old Redwood Highway began July 5, 2017. Work along the Fulton No. 1 line began on September 12, 2017.

Summary of Activity:

No work occurred along Old Redwood Highway or the Fulton No. 1 line during the subject week.

Environmental Compliance:

1. The PG&E EI did not conduct an inspection along Old Redwood Highway or the Fulton No. 1 line during the subject week since no construction activities were occurring.
2. The CPUC EM did not conduct monitoring along Old Redwood Highway or the Fulton No. 1 line during the subject week since no construction activities were occurring.

Notices to Proceed (NTPs)

Table 1 summarizes the Notices to Proceed (NTPs) for the Windsor Substation Project.

Table 1
Notice to Proceeds (NTPs)
 (Updated 11/08/17)

NTP #	Date Requested	Date Issued	Phase	Description
NTP #1	5/17/16	6/15/16	Windsor Substation	Windsor Substation component of the Project.
NTP #2	2/17/17	3/30/17	Reconductoring & 12 kV Line Underbuild	Rebuild a segment of the Fulton No. 1 power line to hold a new double-circuit 12 kilovolt (kV) distribution line underbuild, and reconductoring an existing distribution line along Old Redwood Highway.

Minor Project Changes (MPCs)

Table 2 summarizes the Minor Project Changes (MPCs) submitted for the Windsor Substation Project.

Table 2
Minor Project Changes (MPCs)
 (Updated 11/08/17)

MPC #	Date Requested	Date Issued	Phase	Description
MPC #1	5/17/16	6/15/16	Windsor Substation	Design change to Spill Prevention Control and Countermeasure (SPCC) retention pond and stormwater flow. MPC #1 was incorporated into NTP #1.
MPC #2	5/17/16	6/15/16	Windsor Substation	Use of water truck or driwater pods instead of irrigation system for landscaping. MPC #2 was incorporated into NTP #1.
MPC #3	5/17/16	6/15/16	Windsor Substation	Replacement of culverts in existing roadways entering substation site and Herb Lane. MPC #3 incorporated into NTP #1.
MPC #4	8/11/16	8/19/16	Windsor Substation	Revision of the Conceptual Landscape Plan based on final design and engineering.
MPC #5	2/17/17	3/30/17	Reconductoring & 12 kV Line Underbuild	Use of crane staged on SMART tracks to replace certain poles along the Fulton No. 1 Power Line submitted with NTP Request #2.
MPC #6	2/17/17	3/30/17	Reconductoring & 12 kV Line Underbuild	Final design and engineering revision to the tubular steel pole (TSP) west of the substation submitted with NTP Request #2.
MPC #7	2/17/17	3/30/17	Reconductoring & 12 kV Line Underbuild	Changes to tree trimming and removal due to construction method changes (crane use on SMART tracks) submitted with NTP Request #2.

MPC #	Date Requested	Date Issued	Phase	Description
MPC #8	2/17/17	3/30/17	Reconductoring & 12 kV Line Underbuild	Additional pull and tension site located on Railroad Avenue between Poles a32 and a33 submitted with NTP Request #2.
MPC #9	6/05/17	6/22/17	Reconductoring & 12 kV Line Underbuild	Reconfiguration of distribution line crossing of Old Redwood Highway and pole changes.
MPC #10 REVISED	8/15/17	9/12/17	Additional Staging Area	Additional temporary staging area at southeast corner of Windsor River Road and Windsor Road in Windsor.

PROJECT PHOTOS



Figure 1 – HDD entrance pit and equipment set-up – view west-northwest, October 31, 2017.



Figure 2 – HDD bore and equipment – view northwest, October 31, 2017.



Figure 3 – HDD exit pit on east side of SPCC pond – view southwest, October 31, 2017.



Figure 4 – Conduit ready to be pulled through HDD bore – view west, October 31, 2017.



Figure 5 – Installing conduit to distribution pole – view southeast, October 31, 2017.



Figure 6 – Work in SPCC pond – view north, October 31, 2017.