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PROJECT MEMORANDUM
PG&E WINDSOR SUBSTATION PROJECT

To: Eric Chiang, Project Manager, CPUC
From: Vida Strong, Aspen Project Manager
Date: October 5, 2017
Subject: Monitoring Report #35 – September 25, 2017 to October 1, 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 September 27.

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:

Conduit trenches for the distribution line were excavated, conduit installed to pull boxes, and the trenches backfilled.

Deliveries of base rock and sand occurred for the build-up of the substation pad to grade.

PG&E general construction crews continued to work in the switchgear control building and on the transformer.

Construction of the SPCC pond along the western side of the site continued with the installation of rebar and wall panel forms.

On the southwest side of the site, installation of transmission switches and insulators on dead-end structures continued.

At the time of the CPUC EM's site visit on September 27, crews were excavating conduit trenches, installing rebar and wall foundations for the SPCC pond, working in the switchgear control building and on the transformer, and installing the switches and insulators on the dead-end structures (see Figures 1 and 2).

Environmental Compliance:

1. PG&E's Environmental Inspector (EI), conducted an inspection and monitoring on September 27. Ongoing surveys for special-status species were performed. No special-status species were observed.

2. The CPUC EM noted a couple of compliance concerns on September 27. The drain inlet on the northern perimeter with recently installed new fiber rolls and gravel bags had soil pushed up against it that needed to be removed (see Figures 3 and 4). A smaller drain inlet just to the east of the one surrounded by fiber rolls just had gravel bags over it and needed additional BMPs. Both of these issues were resolved by September 28.
3. The CPUC EM noted that the site was neat and clean. 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 during the week.

On Monday, September 25, PG&E commenced preparations for pole replacements at three locations adjacent to vernal pools along the Fulton No. 1 line (Poles a7 and a8 in the Kerry Preserve, and Pole a10 in a field next to Wilcox Road). Parmeter assisted Precision Crane in driving the crane across planks atop the railroad tracks from Starr Road to the Kerry Preserve vicinity, adjacent to Poles a7 and a8 (see Figure 5). Northwest Pacific Railroad used an excavator to create an approximately 4x4-foot smooth surface for the crane outrigger cribbing in four locations on the western edge of the railroad tracks, and a smaller pad in one location on the east. The PG&E EI confirmed that all excavations had no impacts to wetlands. A portable light standard was set up at each work location for the night work.

During the nighttime clearance on September 25-26, the crane set Poles a7 and a8 from the railroad tracks and the old poles were cut six feet above grade (see Figure 6). All vernal pools in the Kerry Preserve were avoided and no impacts to sensitive resources occurred. PG&E set Pole a10 using equipment parked on Wilcox Road (see Figure 7). The new pole location was augured adjacent to the fence line on Wilcox Road, approximately 10 feet from its original location and well outside the vernal pool. The old pole was removed using a wench and jack, and the hole was backfilled with bentonite to within 2.5 feet of grade. Augured native soil was used to top off the old hole. No impact to the vernal pool occurred. A portion of the augured soil was piled at the base of the new pole, with the remainder captured in a tarp and removed from the pole location.

On Wednesday, September 27, the crane was moved along the tracks to Wilcox Road, where it was maneuvered off the tracks and onto the roadway. Northwest Pacific Railroad removed all wooden cribbing at the outrigger locations and restored the excavated outrigger platforms. A PG&E crew truck and Parmeter's UTV entered the Kerry Preserve along the approved access and jacked out the pole butts and backfilled the holes. Soil was piled around the base of the new poles as required, and the minimal amount of soil remaining from the excavations was spread thinly in the vicinity. No vernal pools were impacted.

At the time of the CPUC EM’s site visit of the project on September 27, the crane was being moved off the railroad tracks and crews were demobilizing. The CPUC EM inspected the pole sites and BMPs installations.

Environmental Compliance:

1. The PG&E EI conducted an inspection and monitoring along the railroad right-of-way on September 25, 26, 27, and 29. Nighttime monitoring was conducted throughout the night of September 25-26. No vernal pools were impacted. No special-status wildlife, including bats, western pond turtle, and badger, were observed.
2. The CPUC EM noted that the work activities and sites were in compliance with mitigation measures and Applicant Proposed Measures adopted in the final MND, and other agency permits.

Notices to Proceed (NTPs)

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

Table 1
Notice to Proceeds (NTPs)
(Updated 10/05/17)

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 10/05/17)

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 #	Date Requested	Date Issued	Phase	Description
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 #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.

EXHIBIT A – CONSTRUCTION STATUS



PROJECT PHOTOS



Figure 1 – Excavating conduit trenches along substation northern perimeter – view east, September 27, 2017.



Figure 2 – Installing rebar and wall forms for the SPCC pond – view northwest, September 27, 2017.



Figure 3 – Soil pushed up against drainage inlet on northern perimeter – view west, September 27, 2017.



Figure 4 – Soil pulled back from drainage inlet – view west, September 28, 2017. Photo courtesy of PG&E.



Figure 5 – Crane driving across planks atop the railroad tracks – view south, September 25, 2017. Photo courtesy of PG&E.



Figure 6 – Replacing Pole a8 in the Kerry Preserve – view south, September 26, 2017. Photo courtesy of PG&E.



Figure 7 – Setting Pole a10 off Wilcox Road – view northeast, September 26, 2017. Photo courtesy of PG&E.