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PROJECT MEMORANDUM
PG&E WINDSOR SUBSTATION PROJECT

To: Eric Chiang, Project Manager, CPUC
From: Vida Strong, Aspen Project Manager
Date: August 10, 2017
Subject: Monitoring Report #27 – July 31, 2017 to August 6, 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 August 1.

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:

Foundation work for the perimeter wall piers was completed and the forms stripped from the foundations.

Trenches were excavated, conduit and copper wire for grounding installed, and trenches backfilled and compacted.

PG&E crews continued to work in the switchgear control building.

Construction of the SPCC pond along the western side of the site continued with excavation and hauling of spoils offsite.

On the southwest side of the site, installation of circuit breakers on foundations occurred, as well as installation of switches on dead-end structures with the use of a crane.

At the time of the CPUC EM's site visit on August 1, crews were installing the ground grid, working in the switchgear control building, excavating the SPCC pond, and preparing to install the switches on the dead-end structures (see Figures 1 - 2).

Environmental Compliance:

1. PG&E's Environmental Inspector (EI), conducted inspections and monitoring July 31, and August 1 and 2. BMPs, stormwater ponds, and wetland areas were checked while inspecting the site. Ongoing surveys for special-status species and nesting birds were also performed. No special-status species or nesting birds were observed.

2. The CPUC EM noted one compliance concern. A generator that was being used by the PG&E GC crew did not have adequate secondary containment (see Figure 3). The CPUC EM informed the PG&E EI and the PG&E EI of the issue and adequate containment was installed August 2.
3. The CPUC EM noted that the site was neat and clean, and that all other SWPPP measures were in place. 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 were covered with plastic and surrounded by fiber rolls, and drainage inlets were protected with fiber rolls and sandbags. 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.

Summary of Activity:

On Tuesday, August 1, construction activities began on the Old Redwood Highway underground crossing. A crew saw cut the asphalt between Poles a9 and b9. A wet-vac was used to capture the water and mud created by the saw cutting activity. A trench was then excavated across the road and conduit installed. All work was performed on the asphalt roadway with no impacts to the roadside drainages and the wetland on the east side of the roadway.

At the time of the CPUC EM's site visit on August 1, crews were saw cutting the asphalt across Old Redwood Highway (see Figure 4). Traffic controls were in place and both lanes remained open, but were shifted so that crews had space to work. Traffic was stopped if equipment or crews needed to cross the road.

Environmental Compliance:

4. The PG&E EI performed nesting bird surveys in the vicinity of Pole a9 and b9 on Old Redwood Highway on July 31 in advance of the road crossing work. No nesting birds or other special-status wildlife were observed.
5. The CPUC EM observed that work activities were in compliance with mitigation measures, Applicant Proposed Measures, and permit requirements.

Notices to Proceed

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

Table 1
Notice to Proceeds (NTPs)
(Updated 8/10/17)

NTP #	Date Requested	Date Issued	Phase	Description
NTP #1	5/17/16	6/15/16	Windsor Substation	Windsor Substation component of the Project.

NTP #	Date Requested	Date Issued	Phase	Description
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 submitted for the Windsor Substation Project.

Table 2
Minor Project Changes (MPCs)
(Updated 8/10/17)

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 #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.

EXHIBIT A – CONSTRUCTION STATUS



PROJECT PHOTOS



Figure 1 – SPCC pond excavation on west side of site – view southwest, August 1, 2017.



Figure 2 – Preparing to install switches on dead-end structures – view southeast, August 1, 2017.



Figure 3 – Generator in need of additional secondary containment – view southwest, August 1, 2017.



Figure 4 – Saw cutting across Old Redwood Highway – view east, August 1, 2017.