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PROJECT MEMORANDUM
PG&E WINDSOR SUBSTATION PROJECT

To: Eric Chiang, Project Manager, CPUC
From: Vida Strong, Aspen Project Manager
Date: July 27, 2017
Subject: Monitoring Report #25 – July 17, 2017 to July 23, 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 July 21.

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 continued for the perimeter wall piers on the east side of the site and included excavating and drilling; installing forms, rebar cages and I-beams; pouring cement slurry; and stripping forms. Kleinfelder monitored drilling and took concrete samples. Groundwater encountered during drilling was pumped into the water buffalo and then into the Baker tank.

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

Grounding of the transformer took place throughout the week. PG&E crews continued to work in the switchgear control building. Concrete was poured for the AC cabinet pad.

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

At the time of the CPUC EM's site visit on July 21, crews were excavating for the SPCC pond, grounding the transformer to the pad, conducting foundation work, excavating, drilling holes for perimeter wall, and installing conduit and the ground grid (see Figures 1 - 3).

Environmental Compliance:

1. PG&E's Environmental Inspector (EI), conducted inspections and monitoring July 17 and 20. 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 concern during her inspection. The secondary containment for the large generator near the office trailers was being pushed down at one end due to electrical cords (see Figure 4). The CPUC EM notified the PG&E Inspector and Supervisor, as well as the PG&E EI. The issue was rectified by placing a board at the location of the electrical cords to prevent the secondary containment from being weighted down.
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:

No construction activities occurred during the subject week.

Environmental Compliance:

4. The PG&E EI performed nesting bird surveys in the vicinity of Pole b9 on Old Redwood Highway on July 20 in advance of the road crossing work scheduled to commence on July 24 (subsequently delayed to July 31). No nesting birds or other special-status wildlife were observed.

Notices to Proceed

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

Table 1
Notice to Proceeds (NTPs)
(Updated 7/27/17)

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 submitted for the Windsor Substation Project.

Table 2
Minor Project Changes (MPCs)
 (Updated 7/27/17)

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 – Excavation of SPCC pond on west side of substation – view south, July 21, 2017.



Figure 2 – Grounding work and excavations at the transformer – view east, July 21, 2017.



Figure 3 – Drilling pier holes for perimeter wall foundations on east side of site – view north, July 21, 2017.



Figure 4 – Secondary containment pushed down by electrical cords – view southwest, July 21, 2017.